

Product Guide Fire Detection Systems

International

Issue 2



LST

Introduction

Supported by the quality management system certified according to ISO9001, our products are developed, manufactured and accurately tested with accordance to national and international standards as well as to our own strict regulations.

The planning of systems as well as the installation, commissioning and maintenance of the products and of the systems combined thereof require specific expert knowledge and therefore may only be made by trained expert personnel. The product-specific training of the expert personnel must be made by LST or by persons explicitly authorized by LST. All valid country specific regulations and guidelines for the use of the products must be obeyed. This Product Guide is under no circumstances a substitute for the detailed documentation of the individual products or for the product-specific training of the expert personnel on proper and professional installation, connection, programming and operation of our products and of systems combined thereof.

This Product Guide contains general information on the use for each product. Descriptions, pictures and specifications correspond to the conditions and intentions at the time of printing of the Product Guide. We reserve the right for modifications of any type, especially when on account of technological progress and do not take on any liability for misprints and obvious mistakes. The values stated in the specifications generally represent nominal values; by means of sample variations, product modifications or site specific conditions, these values may differ from the actually measured values.


LST always tries to provide information as comprehensive and as accurate as possible. Nevertheless, all information on suitability and use of our products are non-binding and do not liberate the introducer in a market from doing own tests. The buyer is responsible for himself for obeying legal and official regulations in connection with the use.

With the publication of this Product Guide, all previous Product Guides and, if prices are contained in this Product Guide, all previous price lists of the corresponding subject and sales area lose their validity. The charge for the products is made on basis of the prices valid on the day of delivery. All delivery contracts are concluded on the basis of the „General Terms of Delivery issued by the Austrian Electrical and Electronics Association“.

Special delivery times or export limitations may exist for some products listed in the Product Guide. Also country specific variants of products may be listed in the Product Guide which may not be used in all sales areas due to different technical requirements or specific approval limitations.

Please always refer to the article number of the products when making an inquiry or when placing an order.

Example of an Article Entry

1	2	3													
240502	Manual Call Point/Red/700 HME/3000/72/H1/02														
4	<p>The manual call point according to EN 54-11 / type B in the aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Labor Strauss protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the</p> <p><u>Features:</u></p> <ul style="list-style-type: none"> • Multicoloured LED for the optical indication of the activated condition and other operating conditions • Latching push button • 														
5	<p><u>Specifications:</u></p> <p>Current consumption loop typ. 90 µA Relative humidity (no condensation) from 5 % to 95 % </p>														
6	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Cross-references</th> <th style="text-align: left;">Page</th> <th style="text-align: left;">Art.No.</th> <th style="text-align: left;">Name Type</th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">123</td> <td style="text-align: center;">249275</td> <td>Programming Unit FI750 FI750/PU</td> </tr> <tr> <td></td> <td style="text-align: center;">234</td> <td style="text-align: center;">249633</td> <td>Protective Cover V2A for MCP/Red WG/ROT-E-1</td> </tr> </tbody> </table>			Cross-references	Page	Art.No.	Name Type		123	249275	Programming Unit FI750 FI750/PU		234	249633	Protective Cover V2A for MCP/Red WG/ROT-E-1
Cross-references	Page	Art.No.	Name Type												
	123	249275	Programming Unit FI750 FI750/PU												
	234	249633	Protective Cover V2A for MCP/Red WG/ROT-E-1												

1. Article number: please always refer to this number on inquiries or orders to avoid mistakes.
2. Product name
3. Type: the type is a string of alpha-numerical characters and symbols without blank characters and is separated from the product name by one blank character.
4. Product description, details on approvals and examinations, features, product picture
5. Technical specifications
6. Cross-references to other products of the Product Guide which are in direct connection with the chosen product. These cross-references present a list of possibilities which are of exemplary nature only; the products listed therein must not necessarily be working altogether.

In the table of contents and at the beginning of the description of an article, the following special terms and abbreviations are used:

New

The product is included in the catalogue for the first time, and maybe it's availability is still limited, or it may only became available at a later time.

Not for new systems

The product is still fully available at the moment and it is intended for the expansion of existing systems. However, for new systems, a successor model should be used.

Discontinued

The product is a discontinued item and it's availability is limited. Before placing an order, it should be checked whether the product is available.

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355146	Sounder-Str./WM66/XP95I/white/100/N 55000-299	261
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356184	Strobe/WB/CoreI/wh/cl/wh/N SA5300-320	269
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246048	Deckhead mounting box/XP95 45681-217 New	275
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8 Conventional Detectors

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242040	Thermal RoR Detector/300/A1R 5351E	286
242042	Thermal Max Detector/300/A2S 5351TE	287
242041	Thermal Max Detector/300/BS 4351E	288
241045	Optical Smoke Detector/1000 ECO1003	288
241046	Optical-Thermal Detector/1000 ECO1002	289
242047	Thermal Max Detector/1000/BS ECO1004T	289
242045	Thermal RoR Detector/1000/A1R ECO1005	290
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246008	Detector Base/400/300/100 B401RM1000	291
246019	Detector Base 400/300/100 B401DGR1000	291
246140	Detector Base/1000 ECO1000BR1000	292
246141	Detector Base/1000/Relay/Latching ECO1000BREL24L	292
246142	Detector Base/1000/Relay/Latching ECO1000BREL12L	292
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246150	Remote Test Unit/300/1000 ECO1000RTU	294
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242030	Thermal RoR Detector/Orbis/A1R HT-11001	297
242031	Thermal Max Detector/Orbis/A2S HT-11002	297
242032	Thermal RoR Detector/Orbis/BR HT-11003	298
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242034	Thermal RoR Detector/Orbis/CR HT-11005	299
242035	Thermal Max Detector/Orbis/CS HT-11006	300
246042	Detector Base/Orbis MB-00001	300
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8.4 Manual Call Point

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240108	MCP/red/Conventional/FEUER HME/3000/12/52/02/IP65	302
240322	MCP/blue/Conventional/HAUSALARM HME/5015/11/02/02	303
240160	MCP/blue/Conventional/HAUSALARM HME/5015/12/02/02/IP65	303
240332	MCP/yellow/Conventional/HANDAUSLÖS. HME/1021/11/17/02	304
240378	MCP/yellow/Conventional/MANUAL RELEASE HME/1021/11/17/02-EN New	304
240109	MCP/yellow/Conventional/HANDAUSLÖS. HME/1021/12/17/02/IP65	305
240342	MCP/blue/Conventional/STOPP HME/5015/11/18/02	305
240377	MCP/blue/Conventional/STOP HME/5015/11/18/02-EN New	306
240161	MCP/blue/Conventional/STOPP HME/5015/12/18/02/IP65	306
240382	MCP/green/Conventional/NACHFLUTEN HME/6002/11/19/02	306
240679	MCP/green/Conventional/AUSL.BFS HME/6002/12/29/00/N	307
240819	MCP/orange/Conv/SCHLEUSENLÜFTUNG HME/2011/11/22/02	308
240830	MCP/orange/FT4A-01/DRUCKBELÜFTUNG HME/2011/82/24/00	309

240710	MCP/orange/3LED/M.ENTRAUCHUNG HME/2011/93/08/00	309
240800	MCP/white/S2/NOTFALL HME/1013/92/40/00	310
245047	Key Switch K20SWS-11	311

9 Detector Accessories

9.1 Detector Accessories, general

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249081	Detector Mounting Bracket MMW2-1	314
249635	Trapeze Bracket TBH800-1	314
246605	False Floor Mounting Bracket MMK-250 New	314
249711	Detector Mounting Bracket/Ceiling MMK-90	315
249712	Detector Mounting Bracket/Floor/Ceiling MMK-200/350	315
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249647	Protective Cage/small/conical BWS-2/D1	316
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9.2 Accessories for Manual Call Points

249633	Protective Cover V2A for MCP/Red WG/ROT-E-1	318
249634	Protective Cover V2A for MCP/blue WG/BLAU-E-1	318
249636	Protective Cover V2A for MCP/yellow WG/GELB-E-1	318
249694	Protective Cover V2A for MCP/green WG/GRÜN-E-1	319
249691	Protective Cover V2A for MCP/orange WG/ORANGE-E-1	319
249670	Protection Kit IP54 for MCP HME-ZS-IP54	319
249721	Protection Cover MCP without Alarm E-COVER/OAL/WS	319
249722	Protection Cover MCP with Alarm E-COVER/MAL/WS	320
249723	Sealing for Protection Cover MCP E-COVER/DS	320
249135	Flush Mounting Kit HME-UP1 New	320
249152	Protection Cover MCP MCP-COVER-1	321
249675	Special Designation HME/Sheet HME-TS-SFT	321
249687	Key for Manual Call Point SU=10 SCHL-HME/10STK	321
249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK	321
245079	Flush Mounting Plate FI750/MCP FI750/MCP/FMP/R	321
245095	Hinged Cover for FI7x0/MCP/PACK10pcs FI720/750/MCP/C-SFT-304	322
249377	Reset Key for MCP720/750/PACK10pcs FI720/750/MCP/KEY	322
249378	Reset Key for MCP700/PACK10pcs. M210	322
245024	Hinged Cover for MCP/WCP PS200	322
245019	Surface Mount Box/MCP5A SR	322
245012	Surface Mount Box/MCP5A SR3T	322
245048	Reset Key for MCP5A/PACK10pcs SC070	323
249213	Glass Pane for MCP Series/10pcs. G21140_	323
245018	Flexi Element for MCP/WCP PS210	323
245093	Hinged Cover for MCP/95/CORE/Pack 10pcs. 44251-175	323
245096	Reset Key for SA5900/PACK10pcs 44251-176	323
245921	Key Callpoint IP66-C31/EX-DC31 C31/50.18001	323
245920	Replacement Glass for EX HM SU=10 Pieces E-G/DC31/10STK	323
249697	Bunch of Keys with various keys SB-UNIV-1	324

9.3 Labelling Products

249248	Detector Label Sheet small/36pcs. BME/MB-BOG-KL/LST	325
249249	Detector Label Sheet small + Carrier/36pcs. BME/MB-KL-KOMP/LST	325
249245	Detector Label//Sheet/22pcs. BME/ZWD-BOG/LST	325
249246	Detector Label Sheet/12pcs. BME/MB-BOG/LST	325
249247	Detector Label Sheet + Carrier/12pcs. BME/MB-KOMPL/LST	326

10 Conventional Optical and Acoustic Devices

10.1 Sounders

355280	Sounder/WM/DC/red/107 CWSO-RR-S1	328
355281	Sounder/WM65/DC/red/107 CWSO-RR-W1	328
355282	Sounder/WM/DC/white/107 CWSO-WW-S1	329
355283	Sounder/WM65/DC/white/107 CWSO-WW-W1	329
355114	Sounder/FB/DC/white DBS1224B4W-D	329
355660	Sounder/FB/DC/rd SQ/SV/08/R/S/C	330
355661	Sounder/FB/DC/wh SQ/SV/08/GW/S/C	331
355700	Sounder/Flush/DC/wh AC/SV/GW/S/8	331
355701	Sounder/Flush/DC/rd AC/SV/R/S	332

10.2 Combined Sounders-Strobes

355286	Sounder-Str/WM/DC/re/cl/re/107/WC CWSS-RR-S5	333
355287	Sounder-Str/WM65/DC/re/cl/re/107/WC CWSS-RR-W5	334
355284	Sounder-Str/WM/DC/re/cl/re/107/O CWSS-RR-S3	334
355285	Sounder-Str/WM65/DC/re/cl/re/107/O CWSS-RR-W3	335
355288	Sounder-Strobe/WM/DC/re/re/107/N CWSS-RB-S7	336
355289	Sounder-Str/WM65/DC/re/re/107/N CWSS-RB-W7	336
355294	Sounder-Str/WM/DC/wh/cl/re/107/WC CWSS-WR-S5	337
355295	Sounder-Str/WM65/DC/wh/cl/re/107/WC CWSS-WR-W5	337
355292	Sounder-Str/WM/DC/wh/cl/re/107/O CWSS-WR-S3	338
355293	Sounder-Str/WM65/DC/wh/cl/re/107/O CWSS-WR-W3	338
355301	Sounder-Str/WM/DC/wh/cl/wh/107/WC CWSS-WW-S5	339

10.3 Strobes

356080	Strobe/WM/DC/red/clear/red/WC CWST-RR-S5	340
356081	Strobe/WM65/DC/red/clear/red/WC CWST-RR-W5	341
356082	Strobe/WM/DC/white/clear/red/WC CWST-WR-S5	341
356083	Strobe/WM65/DC/white/clear/red/WC CWST-WR-W5	342
356086	Strobe/WM/DC/red/clear/white/WC CWST-RW-S5	342
356087	Strobe/WM65/DC/red/clear/white/WC CWST-RW-W5	343
356084	Strobe/WM/DC/white/clear/white/WC CWST-WW-S5	343
356085	Strobe/WM65/DC/white/cl/white/WC CWST-WW-W5	344
356682	Strobe/WM/DC/wh/am/N SOLEX10A	344

10.4 Accessories

359005	Lid for Detector Base Sounder/red DBSLIDR	346
359006	Lid for Detector Base Sounder/white DBSLIDW	346
355675	Base for Sounder/Strobe/IP65/wh SW-IP65-SQ/RO	346

11 Devices for Hazardous Areas

11.1 Conventional Detectors

241091	Optical Smoke Detector/Conventional IS SOC-E-IS	348
246090	Detector Base/Conv/Ex YBN-R/4IS	348
241062	Optical Smoke Detector/Orbis/IS OP-52027	349
241063	Optical-Thermal Detector/Orbis/IS OH-53027	349
242037	Thermal RoR Detector/Orbis/A1R/IS HT-51145	350
242038	Thermal Max Detector/Orbis/A1S/IS HT-51157	351
242061	Thermal Max Detector/Orbis/A2S/IS HT-51147	351
242062	Thermal RoR Detector/Orbis/BR/IS HT-51149	352
242063	Thermal Max Detector/Orbis/BS/IS HT-51151	352
242064	Thermal RoR Detector/Orbis/CR/IS HT-51153	352
242065	Thermal Max Detector/Orbis/CS/IS HT-51155	352
246043	Detector Base/Orbis/IS MB-50018	353

245683	Manual Call Point/Red/Conventional/IS DC31/55.130	353
242150	Thermal Detector/IP67/Conv/MAX/A2S 6295	354
242151	Thermal Detector/IP67/Conv/MAX/BS 6296	354
243013	Flame Detector/IR2/Exd 16511	355
243014	Flame Detector/IR3/Exd 16519	356
249155	Weather Shield Stainless Steel for Flame Detectors EXD 16xxx 07279	356
243045	Flame Detector/IR3/IP66/EX 40/40-D-I-6-31-AC-N	357
243046	Flame Detector/IR3/IP66/EX 40/40-D-I-6-31-SC-N	357
249167	Mounting Bracket/Stainless Steel 877090	358
249168	Weather Shield Stainless Steel 40/40 877163	358

11.2 Loop Detectors

241102	Optical Smoke Detector/200/IS 22051EISE	359
241101	Optical Smoke Detector/200/IS/Ivory 22051EISE-IV Not for new systems	359
241024	Optical Smoke Detector/XP95/Ex 55000-640	360
242036	Thermal Detector/XP95/Ex 55000-440	360
246027	Detector Base/XP95/Ex 45681-215	361

11.3 Optical and Acoustic Devices

355662	Sounder/WM66/DCEX/rd/105 IS-A105N	362
355696	Sounder/WM67/DCEX/rd/107 DS5-3G/3D-24VDC	362
355697	Sounder/WM67/DCEX/rd/112 DS10-3G/3D-24VDC	363
356696	Strobe/QUADRO/rd//11-60VDC LED-HI-3G/3D-LV-RD	363
356697	Strobe/QUADRO/cl/11-60VDC LED-HI-3G/3D-LV-CL New	364

11.4 Zener Barriers, Interfaces and Accessories

228003	Safety Barrier ES58-2	365
228008	Zener Barrier Z978	365
228603	Zener Barrier Z786	366
228006	Safety Barrier/200 Y2	366
228007	Protocol Interface/200 IST200	367
228004	Safety Barrier/XP95 29600-098(KFDO-CS-EX1.54)	367
228005	Protocol Interface/XP95 55000-855	368
228009	Enclosure for Safety Barrier 29600-239	368
249278	Cable Gland Metal M20-EX-IP68	368
249294	Cable Gland Metal M25-EX-IP68	369

12 RF Fire Detection Systems

12.1 Series FI750/RF

249312	RF Loop Interface/750I FI750/RF/W2W	372
249313	RF Expander/750 FI750/RF/WE	373
249314	RF Conventional Interface/750 FI750/RF/CWE	373
249319	Dongle/FI750/RF TW-DD-SK	374
241196	Detector/750/RF/complete FI750/RF/O	374
241198	Detector/750/RF/complete FI750/RF/OT	375
242089	Detector/750/RF/complete FI750/RF/T	376
240695	MCP/red/750/RF HME/3000/74/H1/RF New	377
240696	MCP/red/750/RF/IP65 HME/3000/74/H1/RF/65 New	378
240697	MCP/blue/750/RF/HAUSALARM HME/5015/74/02/RF New	378
240698	MCP/blue/750/RF/HAUSALARM/IP65 HME/5015/74/02/RF/65 New	379
245077	Manual Call Point/Red/750/RF/Flexi FI750/RF/MCP	379
249315	Monitor Module 1xIN/750/RF FI750/RF/M1IN	380
251023	Remote Indicator/750/RF FI750/RF/PA	381
249316	Control Module 1xRel/Batt/750/RF FI750/RF/M1REL/BATT	381
249317	Module/RF/750-Sounder-Strobe FI750/RF/M/SST	382
355208	Sounder/WM65/DC/red/100 CWS/SOUR	383
355210	Sounder/WM65/DC/white/100 CWS/SOUW	384

355236	Sounder/WB/750RF/white FI750/RF/WB/SOUW	384
355209	Sounder-Str/WM65/DC/re/cl/wh/100/W CWS/SOUR/STRC	385
355211	Sounder-Str/WM65/DC/wh/cl/wh/100/W CWS/SOUW/STRC	386
355237	Sounder-Str/WB/750RF/wh/cl/re/C FI750/RF/WB/SSTWCR	386
355238	Sounder-Str/WB/750RF/wh/cl/wh/C FI750/RF/WB/SSTWCW	387
249318	RF Measurement Kit FI750/RF/MK	387
359075	Lid for Sounder FI7x0/WB FI720/750/COVER/R	388
359074	Lid for Sounder FI7x0/WB FI720/750/COVER/W	388
249210	Lithium Battery 3V CR123/10 New	388

12.2 Series 200AP-RF

249350	RF Interface/S200API M200G-RF	389
249351	RF Repeater/S200AP M200F-RF	390
249352	Dongle/LITE/S200AP/RF M200WC-RF	390
249353	Dongle/PRO/S200AP/RF M200WC-RF-PRO	391
241140	Optical Detector/200AP/RF 22051E-RF	391
241141	Multicriteria Detector PTIR/200AP/RF 22051TLE-RF	392
242140	Thermal Max Detector/200APA1S/RF 52051E-RF	393
242141	Thermal Diff Detector/200AP/A1R/RF 52051RE-RF	394
245140	Manual Call Point/Red/S200AP/RF R5A-RF	394
251030	Remote Indicator/200AP/RF M200I-RF	395
249355	Module 1xSurv.In 1xOut/200AP M211E-RF	395
355274	Sounder/WM/200AP/RF/red WSO-RR-RF	396
355275	Sounder/WM/200AP/RF/white WSO-WW-RF	397
356160	Sounder-Strobe/WM/S200AP/red/clear/red/W WSF-RR-RF	397
356161	Sounder-Strobe/WM/S200AP/white/clear/red/W WSF-WR-RF	398
246115	Detector Base/RF/200AP B501RF	398
246116	Detector Base/RF/200AP B501RF-RR	399
249210	Lithium Battery 3V CR123/10 New	399

13 Special Fire Detectors

13.1 Thermal Detectors

242150	Thermal Detector/IP67/Conv/MAX/A2S 6295	402
242151	Thermal Detector/IP67/Conv/MAX/BS 6296	402
242152	Thermal Detector/IP67/Conv/MAX/CS 6297	403
242153	Thermal Detector/IP67/Conv/MAX/ES 6298	403
242170	Thermal Detector/IP67/Conv/MAX/135°C HT-27121-275	404
242016	xxx 12-X27021-001-275 New	404
242180	Thermal Detector/IP67/Max/RoR WMX5000-FS	405
242185	Thermal Detector/IP67/Max/RoR WMX5000	405
242181	Relay Module for Thermal Detector KMx5000-RK	406
246180	Detector Base/5000 MX5000	406
249156	Mounting Bracket MX5000 for special detectors 904757	407

13.2 Flame Detectors

243030	Flame Detector/IR FMX5000IR	408
243031	Flame Detector/UV FMX5000UV	408
249156	Mounting Bracket MX5000 for special detectors 904757	409
243040	Flame Detector/IR3/IP55 20/20-MPI-R	409
243041	Flame Detector/IR3/IP66 20/20-MI-11SF	410
243044	Flame Detector/IR3/IP66 20/20-MI-12SF	411
249160	Mounting Bracket/Stainless Steel 787639	411
249161	Weather Shield Mini Stainless Steel 20/20 787980-SP	411
249162	Air Shield Stainless Steel 20/20 787960	412
243045	Flame Detector/IR3/IP66/EX 40/40-D-I-6-31-AC-N	412
243046	Flame Detector/IR3/IP66/EX 40/40-D-I-6-31-SC-N	413
249167	Mounting Bracket/Stainless Steel 877090	413

249168	Weather Shield Stainless Steel 40/40 877163	414
243010	Flame Detector/IR2 16581	414
243011	Flame Detector/IR3 16589	415
243012	Flame Detector/UVIR2 16591	415
249141	Mounting Bracket/Flame Detector 07127	416
249154	Weather Shield Stainless Steel for Flame Detectors 16xxx 12545	416
243020	Flame Detector UV/Conventional 800/24-VST-K-N	416
249151	Mounting Bracket/Flame Detector MW-800/24	417

13.3 Battery Smoke Detectors

241153	Optical Battery Smoke Detector LM-107A	418
241150	Optical Battery Smoke Detector/9V FH20/O/9 Not for new systems	418
241151	Optical Battery Smoke Detector/9/230V FH20/O/9/230	419
246169	Surface Mounting Box FH20/AP-1	419

14 Beam Smoke Detectors

244490	Beam Smoke Detector/Conventional OSI-RE-SS	422
244491	Beam Smoke Detector/200API OSI-RIE-00	422
244493	Laser Alignment Tool OSP-002	423
244494	Test Filter for OSI Detectors OSP-004-1	423
244495	Key Switch Test/Reset RTS151KEY	424
244036	Surface Mounting Box for RTS151KEY WM2348E	424
244492	Protection Grille for OSI Detector OSI-RWG(9846)	424
244077	Beam Smoke Detector/Conventional FR-ONE-50M	424
244480	Heater Kit for Beam unit FR-ONE 1060-000	425
244482	Protection Grille for FR-ONE Detector 1100-000	426
244483	Testfilter-kit for FR-ONE, FR5000, FR3000 1150-000	426
244070	Beam Smoke Detector/Conventional FR3000	426
244071	Detector for Beam Smoke Detector/Conv FR3000-DETECTOR	427
244076	Mounting Bracket/Swivel FR-ONE, FR5000, FR3000 1170-000	427
244073	Flush Mounting Plate FR3000-202	428
244074	Heater Kit for Beam unit 3000-204	428
244660	Beam Smoke Detector/Conventional FR5000-50M	428
244661	Beam Smoke Detector/Conventional FR5000-100M	429
244662	Detector for Beam Smoke Detector/Conv FR5000-DET-50M	430
244663	Detector for Beam Smoke Detector/Conv FR5000-DET-100M	430
244703	Reflector Extension 1010-000	430
244668	Mounting Plate for 100m Reflector FR5000-007	431
244669	Mounting Plate for 50M Reflector FR5000-008	431
244705	Heater Kit for Beam unit 5000-204	431
244706	Heater Kit for Reflector 5000-205	431
244481	Ceiling Mounting Bracket for Detectors FR-ONE, FR5000 1140-000	432
244664	Protection Grille for FR5000 Controller 1000-019(9841)	432
244665	Protection Grille for FR5000 Detector 1000-018(9840)	432
244075	Beam Smoke Detector/CoreI/50m SA7100-100	432

15 Linear Heat Detectors

15.1 Linear Heat Detectors ProReact

244440	Control Unit linear heat detection A1388	434
244441	Junction Box linear heat detection A1471	435
244442	End of line Unit linear heat detection A1470	435
244451	Sensor Cable red PVC/Metre/100m coil F3050-100M	435
244452	Sensor Cable red PVC/Metre/250m coil F3050-250M	436
244453	Sensor Cable red PVC/Metre/500m coil F3050-500M	436
244454	Sensor Cable red PVC/per metre F3050-1M	436
244455	Sensor Cable black Nylon/Metre/100m coil F3051-100M	436
244456	Sensor Cable black Nylon/Metre/250m coil F3051-250M	437

244457	Sensor Cable black Nylon/Metre/500m coil F3051-500M	437
244458	Sensor Cable black Nylon/per metre F3051-1M	437
244459	Sensor Cable Stainless Steel/Metre/100m coil F3052-100M	437
244460	Sensor Cable Stainless Steel/Metre/250m coil F3052-250M	438
244461	Sensor Cable Stainless Steel/Metre/500m coil F3052-500M	438
244462	Sensor Cable Stainless Steel/per metre F3052-1M	438
244465	Leader Cable gray LSZH/Metre/100m coil F2990-100M	438
244466	Leader Cable gray LSZH/per metre F2990-1M	439
244467	Leader Cable Stainless Steel/Metre/100m coil F2991-100M	439
244468	Leader Cable Stainless Steel/per metre F2991-1M	440
244469	J-Clip Stainless Steel L=50mm/Piece A1149/STK New	440
244472	J-Clip Stainless Steel L=50mm/Pack 100Pcs. A1149/100STK New	440
244718	Fixing base 20mm/Pkg. 200Pcs. 22-11800-110/200STK	440
244719	Dowel Collar 6-20mm/Pack 200Pcs. 22-11800-111/200STK	440
244746	Cable ties black 100Pcs. A1175	440

15.2 Linear Heat Detectors SecuriSens

244690	Linear Heat Detector Single Tube ADW535-1	441
244691	Linear Heat Detector Double Tube ADW535-2	442
244692	External Temperature Sensor for ADW535 ART535-10	442
244693	Relay Interface Module RIM36	442
244682	Sensor Tube/Cu/with accessories/piece 5.5m TU-5/4-CU	443
244740	Pipe Clamp Sensor Tube PC-5/6-PP	443
244745	Pipe Clamp Sensor Tube PC-5/6-STG	443
244178	Flexible Hose PA d=5/3 FH-5/3-PA	443
244145	Sensing Coil CU SC-5/4-CU-5	444
244741	Screw Junction Cu Pipe 10 pcs. SJ-5/4-CuZn	444
244147	T-Junction TJ-5/4-CuZn	444
244742	End Plug Cu 5 pcs EP-5/4-CuZn	444
244743	Stiffener Sleeve SS-3-CuZn	445
244179	Sensor Tube Teflon de=6/4 VE=50m TU-6/4-PTFE	445
244761	Transition piece teflon tube d=6/4 AD-TU-6/4-CuZn New	445
244762	Transition set teflon tube d=6/4 AD-5/6-CuZn New	445
244195	Screw Connection Teflon Tube d=6/4 SJ-6/4-PVDF	446
244196	T-Junction Teflon Tube d=6/4 TJ-6/4-PVDF	446
244197	End Spigot Teflon Tube d=6/4 EP-6/4-PVDF	446

16 Smoke Aspiration Systems

16.1 Series FAAST

244392	Smoke Aspiration System FLX-010	448
244393	Smoke Aspiration System FLX-020	449
244396	Optical Smoke Detector/FLX-0x0 FLX-SP-01	449
244284	Air Filter for Smoke Aspir. System F-INF-25	449
244285	Replacement Filter F-INF-25-RF	450
244397	Replacement Filter intern. for FLX PU=6pcs. FLX-SP-02	450

16.2 Accessories and Installation Material

222053	Automatic Purging Unit/3500L/IP54 AFE70-2/IP54	451
222054	Automatic Purging Unit/5000L/DF/IP54 AFE70-3/IP54	452
244133	Sampling Pipe PVC. d=25/per metre/5m Piece 1M-ROHR-PVC/5M	452
244248	Sensing Hose/PVC/25mm SCHL-PVC/25	452
244112	Pipe-Fitting-Bend/90 BOGEN-90	452
244113	Pipe-Fitting-Knee/90 WINKEL-90	452
244114	Pipe-Fitting-Knee/45 WINKEL-45	453
244115	Pipe-Fitting-T-Junction Joint/90 T-STÜCK-90	453
244116	Pipe-Fitting-T-Junction Joint/45 T-STÜCK-45	453
244118	Pipe-Fitting-Faucet MUFFE	453

244119	Pipe-Fitting-End KAPPE	453
244125	Pipe Clamp/25 RKL25-2	453
244132	Pipe Clamp RKL25-1	454
244235	Non-Return Spring Valve RVFED-25	454
244240	Ceiling Lead-Through Set DDF-KOMPL	454
244201	Sensing Hose DN12X9 DN-12X9	454
244254	3 Way Ball Valve PVC 3PKH-DN20	454
244237	3 Way Ball Valve Metal 3MKH	455
244242	Screw Joint PVC-Brass ÜVS-25X3/4	455
244250	Screw Joint PVC-PVC ÜVS-PVC-PVC	455
244255	Dual Screw Joint 25mm DV-25-25	455
244256	Connect. Exhaust Equipment Aspir. Pipe ABSAUG-RED-25-40	455
244243	Quick Connector Bushing SSKMU	456
244999	Aspiration Hole Reduction Foil, Overview	456
244233	Sleeve for Reduction Foil BA-AREDF	456
244234	Plastic Clip for Reduction Foil/Low-temp KC-AREDF-TK	456
244128	Adhesive/Tangit/0.12kg KLEB-RAS-01	457
244129	Adhesive/Tangit/0.25kg KLEB-RAS-02	457
244130	Adhesive/Tangit/0.5kg KLEB/RAS-05	457
244126	Adhesive/Tangit/1kg KLEB/RAS	457
244131	Cleaner/Tangit/0,12L REIN-RAS-01	458
244127	Cleaner/Tangit/1L REIN/RAS	458

17 Door Fixing Systems

17.1 Smoke Switches

217004	Smoke Switch RS70-1	460
310022	Lithium Standby Battery 22,2V/2,2Ah	461

17.2 Magnetic Clamps

261003	Magnetic Clamp/500N UTKFM05F(1330)	462
261004	Magnetic Clamp/Reset/500N UTKFB05(1350)	462
261005	Magnetic Clamp/Reset/150mm/500N UTKFZ05C(1370/15)	462
261006	Magnetic Clamp/Reset/300mm/500N UTKFZ05L(1370/30)	463
261008	Magnetic Clamp/1000N UTKFM10F(1340)	463
261009	Magnetic Clamp/Reset/1000N UTKFM10(1360)	464
261010	Magnetic Clamp/Reset/150mm/1000N UTKFZ10C(1380/15)	464
261011	Magnetic Clamp/Reset/300mm/1000N UTKFZ10L(1380/30)	465
261030	Cover black for Magnetic Clamp with arm/UTKFZ UTKFZ-ABD-1	465

18 Test Devices

219017	Loop Tester LTG30-1	468
249220	Detector Test Kit Smoke/Thermo 1001-101 Discontinued	468
249221	Detector Test Kit Smoke/Thermo/CO 2001-101	469
249143	Smoke Detector Test Set SOLO808	469
249051	Smoke Detector Test Tool SOLO330	470
249067	Smoke Detector Test Tool large Detector SOLO332	470
249232	Smoke Detector Test Tool SOLO365-001 New	470
249234	Replacement Smoke Generator for Detector Tester SOLO371-001 New	471
249235	ASD Test Adapter for Detector Tester SOLO372-001 New	471
249068	Heat Detector Test Tool Battery SOLO461-101	471
249228	Heat Detector Test Tool Mains SOLO424-101	472
249052	Detector Removal Tool SOLO200	472
249053	Telescopic Pole SOLO100	472
249227	Telescopic Pole 2.2m SOLO108-001	472
249054	Extension Pole SOLO101	473
249226	Carrying bag for test equipment SOLO610-001	473
249231	Battery for Detector Tester SOLO770-001	473

249233	Battery for Detector Tester SOLO370-001 New	473
249230	Charger for Detector Test Tool SOLO727-101	473
249237	Replacement-Charger for Detector Test Tool SPARE1060-001 New	474
249225	Silicone Membrane/Solo Detector Tester SPARE-1005-001	474
249370	Test Unit/Point Detector SCORP1001-001	474
249371	Test Unit/Aspiration System SCORP2001-001	474
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1 Fire Detection Control Panels



1.1 Series BC600

The term „Series BC600“ summarises fire detection control panels in various versions and expansion levels for fire detection systems of all sizes.

The Fire Detection Control Panels Series BC600 with their modular structure and the freely parameterisable functional units can be adapted to different requirements very easily, and therefore can be used in a wide range of applications. The control panels set new standards in operating comfort, functional variety, as well as security in the fire alarm technology, which benefit both the user and the installer of a fire detection system.



The Fire Detection Control Panels Series BC600 provide all functions for the construction of an electrical control device for extinguishing systems. Thanks to its flexibility, the extinguishing control can be used in extinguishing systems with many different extinguishing agents. Depending on the requirements, the panel can be designed as pure extinguishing control panel or as combined fire detection and extinguishing control panel.

Depending on the level of expansion of the control panel, fire, fault and condition detectors as well as actuation elements and alarming devices can be connected to a maximum of 20 loops (ring-bus technology) or 432 detector lines in conventional technology, or to a combination thereof. Thanks to the varied possibilities of defining combinations for actuations, alarming devices and transmitting devices, the control panel can be used to fulfil even extensive and complex alarming and actuation tasks within the scope of the fire alarm technology.

The control panels are available in two different wall-mount cabinet versions and in a 19" front-mount housing. In the basic version the control panel includes a power unit, a backplane as well as – depending on the control panel version – a central processing board, a display and operating field and a module carrier for auxiliary modules. Furthermore, a control panel can be constructed in a switch cabinet, using individual components.

For small fire detection systems, the compact control panels BC600-1L and BC600-1D, for which the features described here only apply to a certain extent, are available.

The optional display and operating field comprises a spacious 1/4 VGA display which indicates all events of the fire detection system in clear form, numerous status LEDs, as well as a keypad with 5 event-specific soft keys. The thoughtful menu structure allows quick and intuitive operation of the control panel.

In addition to the central processing board, up to 8 function modules (e.g., conventional detector interface, loop interface, fire brigade interface) can be connected to the backplane. The backplane powers the connected boards and establishes the data connection via the system bus. The componentries and additional devices in the door of the housing are connected via the UI bus of the control panel. If necessary, individual function modules as well as the central processing board can be provided with redundancy, and in this way a failure of the unit can almost be ruled out.

In the large wall-mount cabinet version, a second backplane can be installed which provides 8 additional mounting positions for function modules. As a result, the control panel can be equipped with a maximum of 16 function modules in one housing. Altogether a Fire Detection Control Panel Series BC600 can address up to 54 function modules.

By networking up to 127 sectional control panels Series BC600 via the high-security network net600, a Fire Detection Control Panel BCnet600 can be built which is decentrally distributed within the building. For details, see the description of the BCnet600.

By means of a PC and the Windows Parameter Setup Software PARSOFT, the configuration parameters of the control panel are quickly and reliably created and transmitted to the control panel. With the AUTO-setup function, the control panel detects all connected control panel components and loop elements. Using the AUTO-addressing, loop elements can be automatically addressed and their position on the loop can be determined by means of AUTO-mapping.

The control panel was tested, according to the Construction Products Regulation CPR, for compliance with the European Standards EN 54-2, EN 54-4 and EN 12094-1, and is VdS certified.

1.1.1 General

211999 Series BC600, Description

The key below provides you with an overview of the possible control panel versions Series BC600 as well as their most important features:

BC600- H D P C

H ... housing

D ... display

P ... power supply

C ... central processing board

Housing:

- BC600-8xxx Fire detection control panel in the standard wall-mount cabinet, prepared for installation of up to 8 function modules. In the door of the housing there are 3 mounting spaces for expansions.
- BC600-8Hxxx Fire detection control panel in the deep version of the standard wall-mount cabinet, prepared for installation of up to 8 function modules. In the door of the housing there are 3 mounting spaces for expansions.
- BC600-16xxx Fire detection control panel in the large wall-mount cabinet, prepared for installation of up to 8 function modules, extendable to up to 16 function modules. In the door of the housing there are 4 mounting spaces for expansions.
- BC600-CE8xxx Fire detection control panel in a 19" front-mount housing, prepared for installation of up to 8 function modules. In the front panel there are 2 mounting spaces for expansions.

Display:

- BC600-xLxx The housing of the fire detection control panel is equipped with a Display and Operating Board ABB600-1, which consists of a 1/4 VGA graphics display, the LED displays as well as the membrane keypad.
- BC600-xNxx The housing is not equipped with a display and operating board. However, the mounting spaces for expansions can be used.

Power supply:

- BC600-xx2x The fire detection control panel is equipped with a Power Supply NT602-1. As an option, additional power units can be accommodated in extension housings.
- BC600-xx4x The fire detection control panel is equipped with a Power Supply NT604-1. As an option, additional power units can be accommodated in extension housings.
- BC600-xx8x The fire detection control panel is equipped with a Power Supply NT608-1. As an option, additional power units can be accommodated in extension housings.

Central processing board:

- BC600-xxxS The fire detection control panel is equipped with a Central Processing Board ZTB600-1 (standard version without redundancy processor).
- BC600-xxxN The fire detection control panel is delivered without central processing board. The desired version of the central processing board – with or without redundant processor – must be ordered separately.

Art.No.	Type	Display and operating field	Power supply	Central processing board
211200	BC600-8L2S	with	2.3A	ZTB600-1
211201	BC600-8L4S	with	4.3A	ZTB600-1
211213	BC600-8L2N	with	2.3A	without
211214	BC600-8L4N	with	4.3A	without
211215	BC600-8L8N	with	8.5A	without
211216	BC600-8N2N	without	2.3A	without
211217	BC600-8N4N	without	4.3A	without
211218	BC600-8N8N	without	8.5A	without
211240	BC600-16L2S	with	2.3A	ZTB600-1
211241	BC600-16L4S	with	4.3A	ZTB600-1
211247	BC600-16L8S	with	8.5A	ZTB600-1
211255	BC600-16L2N	with	2.3A	without
211256	BC600-16L4N	with	4.3A	without
211257	BC600-16L8N	with	8.5A	without
211258	BC600-16N2N	without	2.3A	without
211259	BC600-16N4N	without	4.3A	without
211260	BC600-16N8N	without	8.5A	without
211280	BC600-CE8L2S	with	2.3A	ZTB600-1
211281	BC600-CE8L4S	with	4.3A	ZTB600-1
211284	BC600-CE8L2N	with	2.3A	without
211285	BC600-CE8L4N	with	4.3A	without

Features:

- Powerful microprocessor technology with diverse redundant processing logic
- „Hot plug & play/unplug“ allows exchange of all control panel components during operation
- Easy cabling of the control panel by means of pluggable screw terminals on central processing board, function modules or power unit
- Up to 4000 detector zones for manual call points, automatic fire detectors with or without alarm verification, technical messages, fault detectors with or without self-resetting as well as for confirmations from external devices
- Up to 2000 output functions – actuations, alarming devices or transmitting devices
- Control panel inputs or loop elements can be united in zones or in actuations or alarming devices
- Info button for additional information on the current events or help function for the current menu
- Event memory with quick-search filter indicates the latest 10,000 events in chronological order
- Multilingual user interface, switchable through menu during operation
- Common LEDs and condition displays on the operating field, furthermore functional groups for actuations, transmitting and alarming device with status LEDs and direct operation by means of buttons
- Freely parameterisable buttons and LEDs
- 2 independently monitored outputs with an output current of 1 A for connection of alarming devices
- 2 dry relay outputs for common alarm and common fault
- 1 freely parameterisable relay output
- 3 auxiliary inputs and 8 open-collector outputs, each freely parameterisable
- Combinations of detectors, detector zones or of control panel events in „AND/OR“ logic for the activation of actuations, transmitting devices or alarming devices, combinations for preventing or resetting an activation or for disabling a system part
- Parameterisable „markers“ for defining frequently used combinations only once or for cascading combinations
- Joint operation of defined system parts by means of up to 256 freely parameterisable sectors and

evacuation circuits

- Hierarchised authorisation levels for operation and parameterisation, secured via numeric codes, definable user groups with individual rights management and user language
- Operation can be limited through freely definable sub-sections
- Programmable timers for enabling the alarm delay of the transmitting device, for activating actuators or for controlling sectors, separately definable for every day of the week
- Start and end date of Daylight Saving time automatic or freely parameterisable
- USB interface for connection of the parameter setup PC or a USB stick for transferring the configuration, the event memory contents or the clear texts
- Built-in IP interface for the integration of the control panel into an electronic data processing network; this allows remote access to the control panel – via an encrypted connection – by means of the REMote ACcess Tool REACT for the indication of events and for the operation
- Integrated INFO bus or INFO bus EP with fast transmission, for connection of a fire brigade control unit and of intelligent remote tableaux
- Connection of a protocol printer, an operation control system, an ESPA4.4 gateway or an SMS gateway via Serial Interface SIF601-x
- The robust sheet steel housing has a high dimensional stability and excellent electromagnetic compatibility characteristics. The housing has a high-quality, UV-resistant powder paint coat.
- Depending on the housing version, up to 4 mounting spaces for optional expansions such as a LED button field, a front panel printer or a country-specific fire brigade control unit

Additional features and functions are listed in the description of the function modules (e.g., the Loop Interface LIF601-1) and of further auxiliary modules.

211997 Fire Detection Control Panel BCnet600, Description BCnet600

The Fire Detection Control Panel BCnet600 is a decentrally located control panel for medium-size to very large or far-flung fire detection systems and consists of individual sectional control panels. The sectional control panels are normally installed on the spot – adapted to the object and distributed across the building. They can, however, also be combined at one or several locations.

All sectional control panels are connected to each other via the redundant high-security network net600, and together they form the networked Fire Detection Control Panel BCnet600. The decentralised structure not only reduces the cabling work for connecting fire detectors, but also, above all, significantly improves the operational safety of the entire system compared to conventionally designed fire detection control panels. The applied network technology warrants top failure safety in the event of a fault on the network line and exceeds the redundancy requirements of the European Standard EN 54-2.

Thanks to its wide range of possible logic combinations for alarming and transmitting devices as well as for actuators, the control panel can realize even extensive and complex alarming and control tasks in the fire alarm technology. The control panel can easily be adapted to any required system size and provides literally unlimited possibilities also for future extensions. The control panel has been tested, according to the Construction Products Regulation CPR, for fulfilment of the European Standards EN 54-2, EN 54-4 and EN 12094-1 in all details, including all options for the highest safety demands, and it has been certified by VdS.

For the networking, every BCnet sectional control panel will be provided with a Network Interface NIF600-1, which will be connected to the backplane of the control panel as function module. In the control panel network net600, a total of 127 members can communicate, which together provide the possibility to connect:

- 2,540 loops for Labor Strauss, System Sensor or Apollo protocol
- 20,000 detector zones (for automatic detectors, manual call points, etc.) in loop technology or conventional technology
- 9,700 actuators (e.g., fire controls, extinguishing system controls) or alarming devices (e.g., acoustic or optical signalling devices)
- 99 transmitting devices (e.g., to the fire brigade)

The following designs of control panels can be used as sectional control panels within a networked Fire Detection Control Panel BCnet600:

- BCnet sectional control panels in the standard wall-mount cabinet BC600-8xxx or in the large wall-



- mount cabinet BC600-16xxx (with/without display and operating field),
- BCnet sectional control panels in the compact 19" front-mount housing BC600-CE8xxx (with display and operating field) and
- BCnet sectional control panels BC600-E, which have been assembled in a switch cabinet.

The indication of events and the operation of the networked fire detection control panel can be carried out on any sectional control panel with display and operating field. The system-specific parameter setup of the entire control panel network is transmitted to a sectional control panel in a convenient and clear way, by means of a PC and the Windows Parameter Setup Software PARISOFT, and from this control panel it is distributed to all sectional control panels.

The features of every BCnet sectional control panel are explained in the description of the Fire Detection Control Panel Series BC600. For specifications, see the individual description of the Fire Detection Control Panels Series BC600.

Cross-references	Page	Art.No.	Name Type
	35	211122	Network Interface NIF600-1
	10	211200	Fire Detection Control Panel BC600-8L2S
	11	211201	Fire Detection Control Panel BC600-8L4S
	17	211240	Fire Detection Control Panel BC600-16L2S
	17	211241	Fire Detection Control Panel BC600-16L4S
	18	211247	Fire Detection Control Panel BC600-16L8S
	15	211280	Fire Detection Control Panel BC600-CE8L2S
	15	211281	Fire Detection Control Panel BC600-CE8L4S

211996 Fire Detection Control Panel BC600-E, Description BC600-E

The Fire Detection Control Panel BC600-E is assembled in a standard switch cabinet, using individual Series BC600 components. In this way, very large, centrally arranged fire detection control panels or sectional control panels can be realised according to system-specific requirements. However, for mounting the components in the switch cabinet, mechanical device parts which have been specially prepared for this purpose must be used:

- With the Function Module Carrier FMT608-1, function modules can be mounted in a switch cabinet. The function module carrier is equipped with a Backplane BPL608-1 and therefore can accommodate 8 function modules.
- By means of the Power Supply Carrier NTT600-1, a power unit Series BC600 can be mounted in a switch cabinet.
- The Module Carrier MPL600/6H with a height of 6 rack units can be mounted, for example, in a 19" pivoting frame. On the module carrier, 2 function module carriers or power supply carriers can be mounted.
- The Expansion Front Panel EFP600-1 has 2 mounting spaces for expansion fields and can be installed in the door or in the pivoting frame of the switch cabinet.



For the indication of events and for the operation, a Display And Operating Front Panel ABP600-1L can be installed in the door of the switch cabinet. The ABP600-1L also has 2 mounting spaces for expansion fields.

For the features and specifications, see the individual description of the components of the Fire Detection Control Panels Series BC600.

Specifications:

Mains voltage	230 VAC +10/-20 %, 47 - 63 Hz
Ambient temperature	from -20 °C to 60 °C
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

Cross-references	Page	Art.No.	Name Type
	51	211150	Function Module Carrier FMT608-1
	51	211164	Power Supply Carrier NTT600-1
	37	211330	Display and Operating Front Panel ABP600-1L
	108	211331	Expansion Front Panel 19"/4HU EFP600-1
	108	212040	Module Carrier 19"/6HU MPL600/6H

1.1.2 Control Panels BC600-1

The Fire Detection Control Panels BC600-1 are compact, completely integrated units for the connection of one loop. On the Central Processing Board ZTB601-1 the power unit as well as the loop interface with selectable loop protocol have already been integrated. Other common characteristic features are:

- The control panel has one mounting position for an optional expansion module.
- One monitored output allows connection of an alarming device.
- Auxiliary inputs and open-collector outputs are available for general control tasks.
- At the bottom of the cabinet, there is space for stand-by batteries with 2 × 12 V/max. 22 Ah.



211401 Fire Detection Control Panel BC600-1L

The compact Fire Detection Control Panel BC600-1L has the general characteristics of the Control Panels BC600-1, and is provided with a 5.7" graphics display (1/4 VGA resolution), a membrane keypad and LED displays for operation on the front of the housing.

Further features and functions are listed in the description of the Fire Detection Control Panel Series BC600 (with limitations) and of the Loop-Interface LIF601-1.



Specifications:

Mains voltage	230 VAC +10/-20 %, 47 - 63 Hz
Connected load	75 VA
Output current power supply	2.3 A
Output current siren outputs	500 mA
Output voltage typ.	27.6 VDC
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	384 × 384 × 107 mm
RAL colour	grey white, RAL 9002
Weight (without batteries)	5.4 kg
Approval number CPR	0786-CPR-21612
Approval number VdS	G 218062

Cross-references	Page	Art.No.	Name Type
	26	211112	Conventional Detector Interface GIF608-1
	29	211113	Fire Brigade Interface FWI600-1
	48	211373	Surface Mounting Frame AMR600-1
	43	211419	Backplane BPL601-1
	21	211143	Relay Module RL608-1

211403 Fire Detection Control Panel BC600-1L/S1

The functions, specifications and cross-references of the Fire Detection Control Panel BC600-1L/S1 for Sweden correspond to those of the Fire Detection Control Panel BC600-1L. In addition, a lock according to the standard SS 3654 is integrated in the operating field. By means of this lock, the fire brigade personnel can directly access authorization level 2.

Specifications:

Connected load	75 VA
Output current power supply	2.3 A
Dimensions W × H × D	384 × 384 × 107 mm
Approval number CPR	0786-CPR-21612



Approval number VdS

G 218062

211407 Fire Detection Control Panel BC600-1L/LTF

The compact Fire Detection Control Panel BC600-1L/LTF is structured in the same way as the Fire Detection Control Panel BC600-1L, but it contains an additional, permanently integrated LED button field. Therefore the control panel is particularly suitable for the actuation of small extinguishing systems. The LEDs can be used individually or in pairs, to indicate events of the detectors, detector zones, actuations, transmitting devices or alarming devices as well as system functions. The buttons allow any operation on the control panel.



In addition, the unit offers the following specific features (for further features, see BC600-1L):

- 8 freely parameterisable LED pairs (which illuminate red or yellow)
- Indication of activation, disablement condition and fault condition for the parameterised event
- 8 freely parameterisable buttons for any operations, located next to the LED pairs
- Labelling strip permits individual lettering of each LED pair and each button

Specifications:

Mains voltage	230 VAC +10/-20 %, 47 - 63 Hz
Connected load	75 VA
Output current power supply	2.3 A
Output current siren outputs	500 mA
Output voltage typ.	27.6 VDC
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	384 × 384 × 107 mm
RAL colour	grey white, RAL 9002
Weight (without batteries)	5.5 kg
Approval number CPR	0786-CPR-21612
Approval number VdS	G 218062

Cross-references	Page	Art.No.	Name Type
	26	211112	Conventional Detector Interface GIF608-1
	29	211113	Fire Brigade Interface FWI600-1
	48	211373	Surface Mounting Frame AMR600-1
	43	211419	Backplane BPL601-1
	21	211143	Relay Module RL608-1

211408 Fire Detection Control Panel BC600-1L/LTF/S1

The functions, specifications and cross-references of the Fire Detection Control Panel BC600-1L/LTF/S1 for Sweden correspond to those of the Fire Detection Control Panel BC600-1L/LTF. In addition, a lock according to the standard SS 3654 is integrated in the operating field. By means of this lock, the fire brigade personnel can directly access authorization level 2.



Specifications:

Connected load	75 VA
Output current power supply	2.3 A
Dimensions W × H × D	384 × 384 × 107 mm
Approval number CPR	0786-CPR-21612
Approval number VdS	G 218062

226013 Fire/Extinguishing Control Panel BC600-1L/LTF/EXT

The combined Fire/Extinguishing Control Panel BC600-1L/LTF/EXT allows you to actuate one flooding zone of a gas extinguishing system according to EN 12094-1, or up to 32 flooding zones without considering EN 12094-1.

The combined control panel consists of the basic unit BC600-1L/LTF and the following components that have been installed into it:

- Relay Module RL608-1,
- Input/Output Interface MEA644-1,
- Options circuit with the licence LC600-1LB for the actuation and monitoring of one flooding zone



The features and functions are listed in the description of the Fire Detection Control Panel BC600-1L/LTF, the Relay Module RL608-1 and the Input/Output Interface MEA644-1.

Specifications:

Mains voltage	230 VAC +10/-20 %, 47 - 63 Hz
Connected load	75 VA
Output current power supply	2.3 A
Output current siren outputs	500 mA
Output voltage typ.	27.6 VDC
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	384 × 384 × 107 mm
RAL colour	grey white, RAL 9002
Approval number CPR	0786-CPR-21612
Approval number VdS	G 218062

Cross-references	Page	Art.No.	Name Type
	48	211373	Surface Mounting Frame AMR600-1

211402 Fire Detection Control Panel BC600-1D

The compact Fire Detection Control Panel BC600-1D has the same current characteristics as the Control Panels BC600-1. In addition, the unit offers the following specific features:

- The LED button field that is integrated into the front of the housing comprises 32 freely parameterisable keys for the direct operation of the zones, actuations or further system parts. Next to each key, 2 light emitting diodes for the indication of events are located. Thanks to the optional preset of the keys and LEDs, the handling of the control panel is especially easy.



Further features and functions are listed in the description of the Fire Detection Control Panel Series BC600 (with limitations) and of the Loop-Interface LIF601-1.

Specifications:

Mains voltage	230 VAC +10/-20 %, 47 - 63 Hz
Connected load	75 VA
Output current power supply	2.3 A
Output current siren outputs	500 mA
Output voltage typ.	27.6 VDC
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	384 × 384 × 107 mm
RAL colour	grey white, RAL 9002
Weight (without batteries)	4.7 kg
Approval number CPR	0786-CPR-21612
Approval number VdS	G 218062

Cross-references	Page	Art.No.	Name Type
	26	211112	Conventional Detector Interface GIF608-1
	29	211113	Fire Brigade Interface FWI600-1
	48	211373	Surface Mounting Frame AMR600-1
	43	211419	Backplane BPL601-1
	21	211143	Relay Module RL608-1

211404 Fire Detection Control Panel BC600-1D/S1

The functions, specifications and cross-references of the Fire Detection Control Panel BC600-1D/S1 for Sweden correspond to those of the Fire Detection Control Panel BC600-1D. In addition, a lock according to the standard SS 3654 is integrated in the operating field. By means of this lock, the fire brigade personnel can directly access authorization level 2.



Specifications:

Connected load	75 VA
Output current power supply	2.3 A
Dimensions W × H × D	384 × 384 × 107 mm
Approval number CPR	0786-CPR-21612
Approval number VdS	G 218062

1.1.3 Control Panels BC600-8

The Fire Detection Control Panel BC600-8 is offered in 2 housing versions: a standard wall-mount cabinet and a deep wall-mount cabinet. All Control Panels BC600-8 are provided with one backplane to which up to 8 function modules can be connected. In the door of the housing, 3 mounting spaces are prepared for expansions.

For essential characteristic features, you have a choice between the following alternatives, depending on the control panel version:

- with or without display and operating field, consisting of 1/4 VGA graphics display, the LED displays and the membrane keypad
- integrated power unit with a maximum output current of 2.3 A, 4.3 A or 8.5 A
- with or without central processing board; the desired version of the central processing board – with or without processor redundancy – has to be ordered separately
- The control panels can either be used as stand-alone control panel or, in far-flung and large applications, be connected together to form a networked Control Panel BCnet600.



211200 Fire Detection Control Panel BC600-8L2S

The modularly constructed Fire Detection Control Panel BC600-8L2S comprises a wall-mount cabinet with a display and operating field, a Power Supply NT602-1 with an output current of 2.3 A, a Backplane BPL610-1 with a Central Processing Board ZTB600-1 and 8 free mounting positions as well as a Module Carrier BGT600-1. In addition, the unit offers the following specific features:

- The control panel housing can be equipped with up to 8 function modules (e.g., Conventional Detector Interface GIF608-1, Loop Interface LIF601-1, Fire Brigade Interface FWI600-1).
- The integrated display and operating field consists of a 1/4 VGA graphics display, the LED displays as well as a membrane keypad.



- The door of the housing is provided with 3 mounting spaces for optional expansions such as a LED button field, a front panel printer or a fire brigade control unit.
 - At the bottom of the cabinet, there is space for stand-by batteries with 2 × 12 V/max. 22 Ah.
- Further features and functions are listed in the description of the Fire Detection Control Panel Series BC600.

Specifications:

Mains voltage	230 VAC +10/-20 %, 47 - 63 Hz
Connected load	75 VA
Output current power supply	2.3 A
Output current siren outputs	1 A
Output voltage typ.	27.6 VDC
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	444 × 530 × 121 mm
RAL colour	grey white, RAL 9002
Weight (without batteries)	8 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

Cross-references	Page	Art.No.	Name Type
	27	211110	Loop Interface LIF601-1
	28	211190	Loop Interface LIF601-2
	26	211112	Conventional Detector Interface GIF608-1
	29	211113	Fire Brigade Interface FWI600-1
	35	211122	Network Interface NIF600-1
	21	211143	Relay Module RL608-1
	75	222004	Relay Module RL58-1
	75	222010	Relay Module RL58-2
	76	223026	Siren Connection Module SZ58-3
	48	211370	Surface Mounting Frame AMR600-8
	52	219019	Lock for BC600 SCHLOSS-BC600-1

211201 Fire Detection Control Panel BC600-8L4S

The structure of the modularly constructed Fire Detection Control Panel BC600-8L4S is basically the same as that of the Fire Detection Control Panel BC600-8L2S, but it contains a Power Supply NT604-1 with an output current of 4.3 A.

Specifications:

Connected load	140 VA
Output current power supply	4.3 A
Dimensions W × H × D	444 × 530 × 121 mm
Weight (without batteries)	8.4 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

211213 Fire Detection Control Panel BC600-8L2N

The structure of the modularly constructed Fire Detection Control Panel BC600-8L2N is basically the same as that of the Fire Detection Control Panel BC600-8L2S, but it does not contain a central processing board. Therefore, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications:

Connected load	75 VA
Output current power supply	2.3 A
Dimensions W × H × D	444 × 530 × 121 mm
Weight (without batteries)	7.8 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

211214 Fire Detection Control Panel BC600-8L4N

The structure of the modularly constructed Fire Detection Control Panel BC600-8L4N is basically the same as that of the Fire Detection Control Panel BC600-8L2S, however it contains a Power Supply NT604-1 with an output current of 4.3 A, but no central processing board. Therefore, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications:

Connected load	140 VA
Output current power supply	4.3 A
Dimensions W × H × D	444 × 530 × 121 mm
Weight (without batteries)	8.2 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

211215 Fire Detection Control Panel BC600-8L8N

The structure of the modularly constructed Fire Detection Control Panel BC600-8L8N is basically the same as that of the Fire Detection Control Panel BC600-8L2S, however it contains a Power Supply NT608-1 with an output current of 8.5 A, but no central processing board. Therefore, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications:

Connected load	260 VA
Output current power supply	8.5 A
Dimensions W × H × D	444 × 530 × 121 mm
Weight (without batteries)	8.6 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

211225 Fire Detection Control Panel BC600-8HL2N

The structure of the modularly constructed Fire Detection Control Panel BC600-8HL2N is basically the same as that of the Fire Detection Control Panel BC600-8L2S, but it does not contain a central processing board. In addition, the housing is deeper, and therefore can accommodate 2 stand-by batteries with up to 45 Ah.

The control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications:

Connected load	75 VA
Output current power supply	2.3 A
Dimensions W × H × D	444 × 530 × 201 mm
Weight (without batteries)	9.2 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164



211226 Fire Detection Control Panel BC600-8HL4N

The structure of the modularly constructed Fire Detection Control Panel BC600-8HL4N is basically the same as that of the Fire Detection Control Panel BC600-8L2S, however it contains a Power Supply NT604-1 with an output current of 4.3 A, but no central processing board. In addition, the housing is deeper, and therefore can accommodate 2 stand-by batteries with up to 45 Ah.

The control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications:

Connected load	140 VA
Output current power supply	4.3 A
Dimensions W × H × D	444 × 530 × 201 mm
Weight (without batteries)	9.6 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

211227 Fire Detection Control Panel BC600-8HL8N

The structure of the modularly constructed Fire Detection Control Panel BC600-8HL8N is basically the same as that of the Fire Detection Control Panel BC600-8L2S, however it contains a Power Supply NT608-1 with an output current of 8.5 A, but no central processing board. In addition, the housing is deeper, and therefore can accommodate 2 stand-by batteries with up to 45 Ah.

The control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications:

Connected load	260 VA
Output current power supply	8.5 A
Dimensions W × H × D	444 × 530 × 201 mm
Weight (without batteries)	10 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

211216 Fire Detection Control Panel BC600-8N2N

The structure of the modularly constructed Fire Detection Control Panel BC600-8N2N is basically the same as that of the Fire Detection Control Panel BC600-8L2S, but it contains neither a display and operating field nor a central processing board. Therefore, the control panel can only be used as sectional control panel of a networked Fire Detection Control Panel BCnet600.

Depending on the requirement, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, as well as with a standard network interface NIF600-1 or a redundant network interface NIFR600-1.



Specifications:

Connected load	75 VA
Output current power supply	2.3 A
Dimensions W × H × D	444 × 530 × 121 mm
Weight (without batteries)	7 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

211217 Fire Detection Control Panel BC600-8N4N

The structure of the modularly constructed Fire Detection Control Panel BC600-8N4N is basically the same as that of the Fire Detection Control Panel BC600-8L2S, however it contains a Power Supply NT604-1 with an output current of 4.3 A, but it contains neither a display and operating field nor a central processing board. Therefore, the control panel can only be used as sectional control panel of a networked Fire Detection Control Panel BCnet600.

Depending on the requirement, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, as well as with a standard network interface NIF600-1 or a redundant network interface NIFR600-1.

Specifications:

Connected load	140 VA
Output current power supply	4.3 A
Dimensions W × H × D	444 × 530 × 121 mm
Weight (without batteries)	7.4 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

211218 Fire Detection Control Panel BC600-8N8N

The structure of the modularly constructed Fire Detection Control Panel BC600-8N8N is basically the same as that of the Fire Detection Control Panel BC600-8L2S, however it contains a Power Supply NT608-1 with an output current of 8.5 A, but it contains neither a display and operating field nor a central processing board. Therefore, the control panel can only be used as sectional control panel of a networked Fire Detection Control Panel BCnet600.

Depending on the requirement, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, as well as with a standard network interface NIF600-1 or a redundant network interface NIFR600-1.

Specifications:

Connected load	260 VA
Output current power supply	8.5 A
Dimensions W × H × D	444 × 530 × 121 mm
Weight (without batteries)	7.8 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

1.1.4 Control Panels BC600-CE8

The common characteristic features of the Fire Detection Control Panels BC600-CE8 are a 19-inch front-mount housing and a backplane to which up to 8 function modules can be connected. At the front of the housing there is the display and operating field, which consists of a 1/4 VGA graphics display, the LED displays and the membrane keypad, as well as 2 mounting spaces for expansions.

For essential characteristic features, you have a choice between the following alternatives, depending on the control panel version:

- integrated power unit with a maximum output current of 2.3 A or 4.3 A
- with or without central processing board; the desired version of the central processing board – with or without processor redundancy – has to be ordered separately



- The control panels can either be used as stand-alone control panel or, in far-flung and large applications, be connected together to form a networked Control Panel BCnet600.

211280 Fire Detection Control Panel BC600-CE8L2S

The modularly constructed Fire Detection Control Panel BC600-CE8L2S in the compact front-mount housing with 8 height units is intended for installation in 19" housings or 19" cabinets. The control panel consists of a sheet steel housing with a 19" front panel and contains – in the basic version – a Power Supply NT602-1 with an output current of 2.3 A, as well as a Backplane BPL610-1 with 8 free mounting positions and a Central Processing Board ZTB600-1. In addition, the unit offers the following specific features:



- The control panel can be equipped with 8 function modules (e.g., Conventional Detector Interface GIF608-1, Loop Interface LIF601-x, Fire Brigade Interface FWI600-1).
- The display and operating field that is integrated into the front panel consists of a 5.7" 1/4 VGA graphics display, the LED displays as well as a membrane keypad.
- The front panel has 2 mounting spaces for optional expansions such as a LED button field, a front panel printer or a fire brigade control unit.

Further features and functions are listed in the description of the Fire Detection Control Panel Series BC600.

Specifications:

Mains voltage	230 VAC +10/-20 %, 47 - 63 Hz
Connected load	75 VA
Output current power supply	2.3 A
Output current siren outputs	1 A
Output voltage typ.	27.6 VDC
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	478 × 355 × 155 mm
Height units	8
Weight	7.1 kg
RAL colour	grey white, RAL 9002
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

Cross-references	Page	Art.No.	Name Type
	27	211110	Loop Interface LIF601-1
	28	211190	Loop Interface LIF601-2
	26	211112	Conventional Detector Interface GIF608-1
	29	211113	Fire Brigade Interface FWI600-1
	35	211122	Network Interface NIF600-1
	21	211143	Relay Module RL608-1

211281 Fire Detection Control Panel BC600-CE8L4S

The structure of the modularly constructed Fire Detection Control Panel BC600-CE8L4S is basically the same as that of the Fire Detection Control Panel BC600-CE8L2S, but it contains a Power Supply NT604-1 with an output current of 4.3 A.

Specifications:

Connected load	140 VA
Output current power supply	4.3 A
Dimensions W × H × D	478 × 355 × 155 mm
Weight	7.5 kg
Height units	8
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

211284 Fire Detection Control Panel BC600-CE8L2N

The structure of the modularly constructed Fire Detection Control Panel BC600-CE8L2N is basically the same as that of the Fire Detection Control Panel BC600-CE8L2S, but it does not contain a central processing board. Therefore, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications:

Connected load	75 VA
Output current power supply	2.3 A
Dimensions W × H × D	478 × 355 × 155 mm
Height units	8
Weight (without batteries)	6.9 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

211285 Fire Detection Control Panel BC600-CE8L4N

The structure of the modularly constructed Fire Detection Control Panel BC600-CE8L4N is basically the same as that of the Fire Detection Control Panel BC600-CE8L2S, however it contains a Power Supply NT604-1 with an output current of 4.3 A, but no central processing board. Therefore, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications:

Connected load	140 VA
Output current power supply	4.3 A
Dimensions W × H × D	478 × 355 × 155 mm
Height units	8
Weight (without batteries)	7.3 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

1.1.5 Control Panels BC600-16

The Fire Detection Control Panel BC600-16 has a large wall-mount cabinet and is prepared for installation of 8 function modules. If necessary, another backplane for 8 additional function modules can be installed. In the door of the housing, 4 mounting spaces are prepared for expansions. For essential characteristic features, you have a choice between the following alternatives, depending on the control panel version:

- with or without display and operating field, consisting of 1/4 VGA graphics display, the LED displays and the membrane keypad
- integrated power unit with a maximum output current of 2.3 A, 4.3 A or 8.5 A
- with or without central processing board; the desired version of the central processing board – with or without processor redundancy – has to be ordered separately
- The control panels can either be used as stand-alone control panel or, in far-flung and large applications, be connected together to form a networked Control Panel BCnet600.



211240 Fire Detection Control Panel BC600-16L2S

The modularly constructed Fire Detection Control Panel BC600-16L2S comprises a wall-mount cabinet with a display and operating field, a Power Supply NT602-1 with an output current of 2.3 A, a Backplane BPL610-1 with 8 free mounting positions, a Central Processing Board ZTB600-1 as well as a Module Carrier BGT600-1. In addition, the unit offers the following specific features:

- If an optional Backplane BPL608-1 is installed, 8 additional mounting positions for function modules are available. Therefore, the control panel housing can be equipped with up to 16 function modules (e.g., Conventional Detector Interface GIF608-1, Loop Interface LIF601-x, Fire Brigade Interface FWI600-1).
- The integrated display and operating field consists of a 1/4 VGA graphics display, the LED displays as well as a membrane keypad.
- The door of the housing is provided with 4 mounting spaces for optional expansions such as a LED button field, a front panel printer or a fire brigade control unit.
- At the bottom of the cabinet, there is space for stand-by batteries with 2 × 12 V/max. 45 Ah.



Further features and functions are listed in the description of the Fire Detection Control Panel Series BC600.

Specifications:

Mains voltage	230 VAC +10/-20 %, 47 - 63 Hz
Connected load	75 VA
Output current power supply	2.3 A
Output current siren outputs	1 A
Output voltage typ.	27.6 VDC
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	480 × 670 × 201 mm
RAL colour	grey white, RAL 9002
Weight (without batteries)	11.3 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

Cross-references	Page	Art.No.	Name Type
	27	211110	Loop Interface LIF601-1
	28	211190	Loop Interface LIF601-2
	26	211112	Conventional Detector Interface GIF608-1
	29	211113	Fire Brigade Interface FWI600-1
	35	211122	Network Interface NIF600-1
	21	211143	Relay Module RL608-1
	43	211151	Backplane BPL608-1
	49	211371	Surface Mounting Frame AMR600-16
	75	222004	Relay Module RL58-1
	75	222010	Relay Module RL58-2
	76	223026	Siren Connection Module SZ58-3
	52	219019	Lock for BC600 SCHLOSS-BC600-1

211241 Fire Detection Control Panel BC600-16L4S

The modularly constructed Fire Detection Control Panel BC600-16L4S comprises a wall-mount cabinet with a display and operating field, a Power Supply NT604-1 with an output current of 4.3 A, a Backplane BPL610-1 with 8 free mounting positions, a Central Processing Board ZTB600-1 as well as a Module Carrier BGT600-1. In addition, the unit offers the following specific features:

- If an optional Backplane BPL608-1 is installed, 8 additional mounting positions for function modules are available. Therefore, the control panel housing can be equipped with up to 16 function modules (e.g., Conventional Detector Interface GIF608-1, Loop Interface LIF601-x Fire Brigade Interface FWI600-1).
- The integrated display and operating field consists of a 1/4 VGA graphics



- display, the LED displays as well as a membrane keypad.
- The door of the housing is provided with 4 mounting spaces for optional expansions such as an LED button field, a front panel printer or a fire brigade control unit.
- At the bottom of the cabinet, there is space for stand-by batteries with 2 × 12 V/max. 45 Ah.

Further features and functions are listed in the description of the Fire Detection Control Panel Series BC600.

Specifications:

Mains voltage	230 VAC +10/-20 %, 47 - 63 Hz
Connected load	140 VA
Output current power supply	4.3 A
Output current siren outputs	1 A
Output voltage typ.	27.6 VDC
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	480 × 670 × 201 mm
RAL colour	grey white, RAL 9002
Weight (without batteries)	11.7 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

Cross-references	Page	Art.No.	Name Type
	27	211110	Loop Interface LIF601-1
	26	211112	Conventional Detector Interface GIF608-1
	29	211113	Fire Brigade Interface FWI600-1
	35	211122	Network Interface NIF600-1
	21	211143	Relay Module RL608-1
	43	211151	Backplane BPL608-1
	49	211371	Surface Mounting Frame AMR600-16
	75	222004	Relay Module RL58-1
	75	222010	Relay Module RL58-2
	76	223026	Siren Connection Module SZ58-3
	52	219019	Lock for BC600 SCHLOSS-BC600-1

211247 Fire Detection Control Panel BC600-16L8S

The structure of the modularly constructed Fire Detection Control Panel BC600-16L8S is basically the same as that of the Fire Detection Control Panel BC600-16L2S, but it contains a Power Supply NT608-1 with an output current of 8.5 A.

Specifications:

Connected load	260 VA
Output current power supply	8.5 A
Dimensions W × H × D	480 × 670 × 201 mm
Weight (without batteries)	12.1 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

211255 Fire Detection Control Panel BC600-16L2N

The structure of the modularly constructed Fire Detection Control Panel BC600-16L2N is basically the same as that of the Fire Detection Control Panel BC600-16L2S, but it does not contain a central processing board. Therefore, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications:

Connected load	75 VA
Output current power supply	2.3 A
Dimensions W × H × D	480 × 670 × 201 mm
Weight (without batteries)	11.1 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

211256 Fire Detection Control Panel BC600-16L4N

The structure of the modularly constructed Fire Detection Control Panel BC600-16L4N is basically the same as that of the Fire Detection Control Panel BC600-16L2S, however it contains a Power Supply NT604-1 with an output current of 4.3 A, but no central processing board. Therefore, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications:

Connected load	140 VA
Output current power supply	4.3 A
Dimensions W × H × D	480 × 670 × 201 mm
Weight (without batteries)	11.5 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

211257 Fire Detection Control Panel BC600-16L8N

The structure of the modularly constructed Fire Detection Control Panel BC600-16L8N is basically the same as that of the Fire Detection Control Panel BC600-16L2S, however it contains a Power Supply NT608-1 with an output current of 8.5 A, but no central processing board. Therefore, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications:

Connected load	260 VA
Output current power supply	8.5 A
Dimensions W × H × D	480 × 670 × 201 mm
Weight (without batteries)	11.9 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

211258 Fire Detection Control Panel BC600-16N2N

The structure of the modularly constructed Fire Detection Control Panel BC600-16N2N is basically the same as that of the Fire Detection Control Panel BC600-16L2S, but it contains neither a display and operating field nor a central processing board. In the door of the housing, 4 mounting spaces are prepared for expansions. Therefore, the control panel can only be used as sectional control panel of a networked Fire Detection Control Panel BCnet600.

Depending on the requirement, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, as well as with a standard network interface NIF600-1 or a redundant network interface NIFR600-1.



Specifications:

Connected load	75 VA
Output current power supply	2.3 A
Dimensions W × H × D	480 × 670 × 201 mm
Weight (without batteries)	10.3 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

211259 Fire Detection Control Panel BC600-16N4N

The structure of the modularly constructed Fire Detection Control Panel BC600-16N4N is basically the same as that of the Fire Detection Control Panel BC600-16L2S, however it contains a Power Supply NT604-1 with an output current of 4.3 A, but it contains neither a display and operating field nor a central processing board. Therefore, the control panel can only be used as sectional control panel of a networked Fire Detection Control Panel BCnet600.

Specifications:

Connected load	140 VA
Output current power supply	4.3 A
Dimensions W × H × D	480 × 670 × 201 mm
Weight (without batteries)	10.7 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

211260 Fire Detection Control Panel BC600-16N8N

The structure of the modularly constructed Fire Detection Control Panel BC600-16N8N is basically the same as that of the Fire Detection Control Panel BC600-16L2S, however it contains a Power Supply NT608-1 with an output current of 8.5 A, but it contains neither a display and operating field nor a central processing board. Therefore, the control panel can only be used as sectional control panel of a networked Fire Detection Control Panel BCnet600.

Specifications:

Connected load	260 VA
Output current power supply	8.5 A
Dimensions W × H × D	480 × 670 × 201 mm
Weight (without batteries)	11.1 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

1.1.6 Additional Devices for Extinguishing Control Panels

218992 Extinguish. Control Function in Series BC600 Panels, Description LC600

The Fire Detection Control Panels Series BC600 provide all functions for the construction of an electrical control device for extinguishing systems. Thanks to its flexibility, the extinguishing control can be used in extinguishing systems with many different extinguishing agents. Among other things, the control panels have been tested and certified for the actuation of gas extinguishing systems according to EN 12094-1.

Depending on the requirements, the following versions can be implemented and parameterised:

- Extinguishing Control Panel LC600-x: The control panel can be actuated through control contacts by a fire detection control panel of any brand.
- Combined Fire/Extinguishing Control Panel BC600-x: In addition to the components of the extinguishing technology, automatic fire detectors may also be connected directly to this control panel.

For the construction of an Extinguishing Control Panel Series LC600 or a combined Fire/Extinguishing Control Panel Series BC600, all Series BC600 control panel types can be used:

- The compact control panels BC600-1L/LTF and BC600-1D can actuate an extinguishing system with one flooding zone according to EN 12094-1.



- The Fire Detection Control Panels BC600-8x and BC600-CE8x can be expanded to up to 32 flooding zones, the BC600-16x can be expanded to up to 64 and the BC600-E (assembled in a switch cabinet) can be expanded to up to 128 flooding zones. The flooding zones of a control panel can be combined into any number of extinguishing systems.
- In the networked Control Panel BCnet600, up to 2048 flooding zones, which may be distributed among up to 127 control panels, can be displayed and operated.

The Control Panel Series BC600/LC600 fulfils all mandatory requirements and all options of EN 12094-1 as well as EN 54-2 and EN 54-4. To fulfil EN 12094-1, there are LED displays for the indication of the operating conditions (e.g., activated, faulty, disabled, emergency hold device) on the operating front (LAF648-x, LTF(R)616-x, etc.), which ensure that these operating conditions are indicated in spite of the alarm condition. If necessary, a hardware redundant version of the extinguishing system control can also be implemented easily for highest safety demands. It is prescribed by the standard if more than one flooding zone of a gas extinguishing system is actuated by a control panel or a function module. In this case, the componentries in question must be provided with a redundant processor node. In the event of a failure of the main processor, the redundant processor that is integrated on the hardware redundant componentries automatically takes over the function of the main processor.

The extinguishing control function is unblocked in the control panel or in the sectional control panel after installation of an appropriately parameterised options circuit. This circuit is part of the extinguishing control panel license which is available for 1, 4, 8, 16, 32 or 128 flooding zones, depending on the requirements. The Control Panels Series BC600/LC600 are parameterised by means of a PC and the Windows Parameter Setup Software PARSOFT. The clear user interface allows an almost self-explanatory definition of the system configuration and thereby minimises the requirement for training. The entered parameters can be loaded into the control panel after an automatic check for formal correctness.

Specifications:

Approval number CPR	0786-CPR-21609 0786-CPR-21611 0786-CPR-21610 0786-CPR-21612
Approval number VdS	G 218063 G 212164 G 218066 G 218062

Cross-references	Page	Art.No.	Name Type
	54	218027	Extinguishing-Control 1-Area-Licence LC600-1LB
	55	218028	Extinguishing-Control 4-Area-Licence LC600-4LB
	55	218029	Extinguishing-Control 8-Area-Licence LC600-8LB
	55	218030	Extinguishing-Control 16-Area-Licence LC600-16LB
	55	218031	Extinguishing-Control 32-Area-Licence LC600-32LB
	55	218032	Extinguishing-Control 64-Area-Licence LC600-64LB
	55	218033	Extinguishing-Control 128-Area-Licence LC600-128LB

211143 Relay Module RL608-1

The Relay Module RL608-1 is designed for the switching of loads via eight dry contacts, which can be actuated independently of each other. The componentry is primarily intended for installation in Fire Detection Control Panels Series BC600. It is attached to the backplane of the control panel, but it is not connected to the system bus.

After breaking off the section of the printed circuit board that is not equipped with components, the relay module can also be used in Fire Detection Control Panels Series BC216, Series BC016, Series BC08 and Series BC06.



Features:

- Eight independent relays with one dry contact each
- By means of jumpers, each contact can be individually set as normally open contact, as normally closed contact or as normally open contact with signalling resistors for the VdS extinguishing system interface
- Galvanically isolated relay contacts routed to pluggable screw terminals
- LED displays activation of each relay
- Connection of trigger inputs via flat cable (included in the delivery)

Specifications:

Operating voltage	from 20 VDC to 30 VDC
Current consumption typ.	22 mA (per activated circuit)
Contact rating	1 A / 60 V / 30 W
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	160 × 65 × 35 mm
Dimensions L × W × H	104 × 65 × 35 mm (after breaking off the printed circuit board)
Weight	105 g

Cross-references	Page	Art.No.	Name Type
	78	229008	Flat Cable 1700mm/10-Pole FBK17-1

229014 Voltage Stabilizer 24VDC STAB24-3

The Voltage Stabilizer STAB24-3 is used to power devices which must be supplied from the fire detection control panel and which require tight supply voltage tolerances. The voltage stabilizer keeps the voltage fluctuations that are caused by the charging logic of the fire detection control panel to a minimum, thereby achieving reliable operation of the powered device in every operating condition of the fire detection control panel (mains and battery operation).

The componentry can be installed in Fire Detection Control Panels Series BC600 and BC08 as well as Power Supply Units Series NT624.



Features:

- High efficiency
- Easy installation
- Small dimensions

Specifications:

Current consumption typ.	50 mA (at 24 V without load)
Input voltage	from 18 VDC to 36 VDC
Output voltage typ.	26.1 VDC ±1%
Output current max.	3 A
Output power max.	75 W
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	98 × 74 × 40 mm
Weight	205 g

249097 Line-Coupler Redundance Control LKR21-1

The line coupler is used to interconnect two actuation outputs with negative monitoring to an actuation device (e.g., solenoid valve). As a result of this coupling, a redundant activation of the actuation device in accordance with EN 12094-1 is ensured. Alternatively, the line coupler can couple two independent power supplies for the redundant supply of an electrical load. The condition of the two control inputs of the line coupler, which are connected to the redundant control outputs or power supplies, is indicated by one light emitting diode per input.

The line coupler is integrated in a grey plastic housing and is designed for indoor surface mounting.



Specifications:

Current consumption typ.	55 mA (both inputs active or powered)
Input voltage	from 20 VDC to 30 VDC
Contact rating	6 A / 24 VDC
Protection class	IP55
Ambient temperature	from -5 °C to 60 °C
Dimensions W × H × D	150 × 100 × 55 mm

Weight	180 g
Colour	light grey
Approval number CPR	0786-CPR-21573
Approval number VdS	G 218022

370601 Control Box for ZC with Module ASB70-1_D1

A flow detector (according to EN 12259-5/CEA 4001) responds to the physical characteristic „flow of water“. By means of the control box ASB70-1/D1, a pump is actuated through an appropriately parameterised fire detection and/or extinguishing control panel, in order to test the flow of water via a bypass to the flow detector, thereby checking the functioning of the flow detector. The signals representing the switching of the flow detector and the status of the mains voltage supply of the water pump are connected to the control box, and therefore can be displayed on and processed by the fire detection and/or extinguishing control panel.



Features:

- Prepared for locally feeding the pump with mains power
- Terminals for water pump
- Terminals for loop and flow detector
- Integrated input/output module M221EA, already wired to terminals
- Includes monitoring of mains voltage supply

Specifications:

Mains voltage	85–305 VAC, 47–63 Hz
Output voltage typ.	24 VDC (power unit)
Relative humidity (no condensation)	from 5 % to 90 %
Protection class	IP66 max. (depending on threaded cable gland)
Ambient temperature	from -20 °C to 60 °C (continuous operation, no icing)
Dimensions W × H × D	180 × 130 × 85 mm
Weight	700 g

370603 Control Box for ZC ASB70-2_D1

A flow detector (according to EN 12259-5/CEA 4001) responds to the physical characteristic „flow of water“. By means of the control box ASB70-2/D1, a pump is manually actuated through a special test device in order to test the flow of water via a bypass to the flow detector, thereby checking the functioning of the flow detector. The switching of the flow detector and the status of the pump activation are displayed on the user interface of the test device.



Features:

- Prepared for locally feeding the pump with mains power
- Terminals for water pump
- Terminals for test device and flow detector

Specifications:

Mains voltage	85–305 VAC, 47–63 Hz
Output voltage typ.	24 VDC (power unit)
Relative humidity (no condensation)	from 5 % to 90 %
Protection class	IP66 max. (depending on threaded cable gland)
Ambient temperature	from -20 °C to 60 °C (continuous operation, no icing)
Dimensions W × H × D	180 × 130 × 85 mm
Weight	570 g

Cross-references	Page	Art.No.	Name Type
	24	240717	MCP/blue/3LED/Test HME/5015/94/57/00

240717 MCP/blue/3LED/Test HME/5015/94/57/00

The manual call point in the blue aluminium die-cast design housing is provided with a dry change-over contact. In contrast to manual call points that are similar on the outside, this special test device does not have a breakable element but a stainless steel front panel with a quick use guide printed on the inside. The device is activated by pressing the button after opening the door with a key. After the activation has been reset the door can be closed.



Features:

- Door label „PRÜFMELDER“, replaceable
- Red LED for the optical indication of the activated flow detector
- Yellow LED for the optical indication of the actuated pump
- Green LED for the optical indication of the operating condition
- Latching (default) or non-latching push button
- Stainless steel front panel with operating instructions on the back
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols
- Call point housing can be opened with key SCHL-HME (included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Contact rating	2 A / 25 VAC or 2 A / 30 VDC
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	sky blue, RAL 5015

Cross-references	Page	Art.No.	Name Type
	23	370603	Control Box for ZC ASB70-2_D1
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	316	249135	Flush Mounting Kit HME-UP1

1.1.7 Function Modules

The function modules are inserted into the backplane and thus allow the hardware of the fire detection control panel to be set up in accordance with the requirements. With each function module you flexibly and universally add the required functions and inputs, outputs or interfaces.

211100 Central Processing Board ZTB600-1

The Central Processing Board ZTB600-1 is used for installation in a Fire Detection Control Panel BC600-xxxN (delivered without central processing board) and for the construction of a Fire Detection Control Panel BC600-E in a switch cabinet. The componentry is responsible for:

- the communication with all other componentries of the fire detection control panel which have a bus connection (display and operating board, componentries in the expansion fields of the door, function modules, power units, etc.), via two high performance bus systems,
- the handling and distribution of the events,
- the monitoring and activation of the own inputs and outputs,
- the communication via the external interfaces (USB interfaces as well as INFO bus interface).



Up to 4,000 zones can be managed by a Central Processing Board ZTB600-1 (i.e., a Fire Detection Control Panel BC600 or every BCnet600 sectional control panel). In a BCnet600 control panel, all sectional control panels together can manage up to 20,000 zones.

The componentry comes with two Termination Connectors SBA600-1.

Features:

- Powerful 32-bit processor system
- Three freely parameterisable relay outputs (two of which have been preset as common alarm relay and common fault relay)
- Two freely parameterisable monitored siren outputs
- 3 freely parameterisable monitored inputs
- 8 freely parameterisable OC outputs
- LAN interface for connection to REACT or the like
- One INFO bus or INFO bus EP interface
- One USB interface prepared for the connection of the PARSOFT PC
- All inputs and outputs are accessible via pluggable screw terminals, the OC outputs are accessible via flat cable connectors

Specifications:

Current consumption typ.	26 mA (inputs and outputs in normal condition)
Output current siren outputs	1 A
Contact rating	1 A / 60 V / 30 W
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	173 × 131 × 25 mm
Weight	160 g

211101 Central Processing Board Redundant ZTBR600-1

The Central Processing Board ZTBR600-1 with integrated redundant processor has the same range of features as the Central Processing Board ZTB600-1. However, in the event of a failure of the main processor, the redundant processor takes on the entire data processing as well as the communication with the function modules and peripheral devices. Therefore, the redundant central processing board is ideally suited for systems with especially high demands on the failure safety – for example in extinguishing systems.



Specifications:

Current consumption typ.	42 mA (inputs and outputs in normal condition)
Dimensions L × W × H	173 × 131 × 25 mm
Weight	175 g

211112 Conventional Detector Interface GIF608-1

The Conventional Detector Interface GIF608-1 supports 8 detector lines in conventional technology in Fire Detection Control Panels Series BC600. The detector lines can be parameterised individually as:

- Detector lines for fire alarm for the connection of manual call points as well as automatic detectors with or without alarm verification
- Detector lines for technical messages for the connection of monitoring and condition detectors
- Detector lines for fault messages for the connection of fault detectors
- System inputs for special purposes (e.g., to accept control commands)
- Confirmation inputs for monitoring of actuations and transmitting devices



Each detector line can be assigned either to a logic detector zone or to a zone element. In this way, it is also possible to unite several detector lines in one detector zone, and therefore operate them together. The end-of-line element – resistor or capacitor – can also be parameterised. If necessary, detector lines can also be configured as inputs without monitoring.

In addition, the Conventional Detector Interface GIF608-1 is equipped with 8 freely parameterisable open-collector outputs for general control tasks.

Features:

- Independent microprocessor to ensure the alarming capability of every detector even at system failure of the control panel
- Detector lines monitored for wire breakage, short circuit and earth fault
- The inputs are accessible via pluggable screw terminals, the outputs are accessible via flat cable connectors

Specifications:

Current consumption typ.	7 mA (without detectors and line termination)
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	160 × 65 × 35 mm
Weight	80 g

211116 Conventional Detector Interface Redundant GIFR608-1

The Conventional Detector Interface GIFR608-1 with integrated redundant processor has the same range of features as the Conventional Detector Interface GIF608-1. However, in the event of a failure of the main processor on the conventional detector interface, the redundant processor takes on the handling of the 8 detector lines as well as the communication with the central processing board. Therefore, the redundant conventional detector interface is ideally suited for systems with especially high demands on the failure safety – for example in extinguishing systems.



Specifications:

Current consumption typ.	17 mA (without detectors and line termination)
Dimensions L × W × H	160 × 65 × 35 mm
Weight	90 g

211110 Loop Interface LIF601-1

The Loop Interface LIF601-1 supports one loop with bi-directional communication in Fire Detection Control Panels Series BC600. The protocol for the loop communication is set through the parameterisation of the control panel and it determines the maximum number of detectors and modules that can be connected to the loop:



- 240 physical address points (detectors or modules) with Labor Strauss protocol
- 318 physical address points (159 detectors and 159 modules) with System Sensor protocol
- 126 physical address points (detectors or modules) with Apollo protocol

The loop allows connection of manual call points, automatic detectors, input and output modules, RF gateways and signalling devices in loop technology. Usually, the loop is wired as ring with unshielded 2-wire cables; if necessary, branch lines can also be connected to the ring without additional devices. Each loop can be divided into a maximum of 200 detector zones. Thanks to the high maximum output current of 500 mA, a larger number of loop elements with higher current demand – such as sirens – can be used on the loop. In addition, the Loop Interface LIF601-1 is equipped with 8 freely parameterisable open-collector outputs for general control tasks.

Extensive measuring functions for obtaining electrical characteristics, as well as analysis functions are integrated into the loop interface. On the LC display of the Fire Detection Control Panel Series BC600, the resistances of the positive and negative loop line, the present loop current, the loop voltage at all terminals and the relative frequency of faulty queries on the loop can be indicated. As a result, the quality of the loop cabling and of the data transmission can be evaluated in the course of commissioning or maintenance. In this way, for example, lines that are too long or poor wiring can be detected easily.

Features:

- Independent microprocessor to ensure the alarming capability of every detector even at system failure of the control panel
- Full function of all elements in the event of a single wire breakage on the ring-shaped loop line
- On the componentry, the start and the end of the loop are each provided with an isolator module
- In the event of a short circuit on the loop line, only the loop elements in the faulty line section, that is cut off from the loop by means of isolators, are affected in their function
- Alarm threshold tracing for every single smoke detector on the loop according to its individual contamination. The sensitivity of every smoke detector is thus held constant over a very long period of time and deceptive alarms are avoided
- Maintenance prognosis by means of processor-aided interpolation of data concerning the trend of contamination for every single smoke detector on the loop. This way it is possible to predict the next maintenance date with a high degree of probability, which in turn results in major cost savings in maintenance during the lifetime of the fire detection system
- Alarming capability of every detector can be checked from the fire detection control panel
- The loop contacts are accessible via pluggable screw terminals, the outputs are accessible via flat cable connectors

Specifications:

Current consumption typ.	27 mA (without detectors, modules)
Output current max.	500 mA
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	160 × 65 × 20 mm
Weight	80 g

211111 Loop Interface Redundant LIFR601-1

The Loop Interface LIFR601-1 with integrated redundant processor has the same range of functions as the Loop Interface LIF601-1. However, in the event of a failure of the main processor on the loop interface, the redundant processor takes on the handling of the loop as well as the communication with the central processing board. Therefore, the redundant loop interface is ideally suited for systems with especially high demands on failure safety – for example in extinguishing systems.



Specifications:

Current consumption typ.	31 mA (without detectors, modules)
Output current max.	500 mA
Dimensions L × W × H	160 × 65 × 20 mm
Weight	90 g

211190 Loop Interface LIF601-2

The Loop Interface LIF601-2 supports one loop with bi-directional communication in Fire Detection Control Panels Series BC600. The protocol for the loop communication is set through the parameterisation of the control panel and it determines the maximum number of detectors and modules that can be connected to the loop:

- 240 physical address points (detectors or modules) with Labor Strauss protocol
- 318 physical address points (159 detectors and 159 modules) with System Sensor protocol
- 252 physical address points (detectors or modules) with Apollo protocol



The loop allows connection of manual call points, automatic detectors, input and output modules, RF gateways and signalling devices in loop technology. Usually, the loop is wired as ring with unshielded 2-wire cables; if necessary, branch lines can also be connected to the ring without additional devices.

If shielded cables are to be used, both shields can be connected directly to the loop interface, which makes wiring much easier and ensures optimum protection against external EMC effects. In addition, the continuity of the shield can be monitored by the LIF601-2, a further measure to ensure error-free communication on the loop.

Each loop can be divided into a maximum of 200 detector zones. Thanks to the high maximum output current of 600 mA, a large number of loop elements with higher current demand – such as sirens – can be used on the loop.

In addition, the Loop Interface LIF601-2 is equipped with 8 freely parameterisable open-collector outputs for general control tasks.

Extensive measuring functions for obtaining electrical characteristics, as well as analysis functions are integrated into the loop interface. On the LC display of the Fire Detection Control Panel Series BC600, the resistances of the positive and negative loop line, the present loop current, the loop voltage at all terminals and the relative frequency of faulty queries on the loop can be indicated. Furthermore, the way in which the loop resistance of both lines is determined by the LIF601-2 has been improved again, and therefore the present measured values are indicated even more exactly, and in addition, now the resistance can also be measured on Apollo loops. As a result, the quality of the loop cabling and of the data transmission can be evaluated in the course of commissioning or maintenance. In this way, for example, lines that are too long or poor wiring can be detected easily.

Features:

- Independent microprocessor to ensure the alarming capability of every detector even at system failure of the control panel.
- Full function of all elements in the event of a single wire breakage on the ring-shaped loop line.
- On the componentry, the start and the end of the loop are each provided with an isolator module.
- In the event of a short circuit on the loop line, only the loop elements in the faulty line section, that is cut off from the loop by means of isolators, are affected in their function.
- Because the FasTest(R) feature is supported, the maintenance costs of Series Soteria detectors can

- be reduced significantly.
- For all Discovery and Core signalling devices, an additional activation logic ensures immediate reactivation when the loop voltage returns – provided that the signalling device had been active when the loop voltage failed.
 - Alarm threshold tracing function for every single smoke detector on the loop according to its contamination. The sensitivity of every smoke detector is thus held constant over a very long period of time and deceptive alarms are avoided.
 - Maintenance prognosis by means of processor-aided interpolation of data concerning the trend of contamination for every single smoke detector on the loop. This way it is possible to predict with a high degree of probability when the next maintenance has to be carried out at the latest, which in turn results in major cost savings in maintenance during the lifetime of the fire detection system.
 - For all Series Soteria multi-criteria detectors, the sensor which has lead to the activation (for example smoke in the case of OT detectors) is also reported in addition to the alarm event.
 - The alarming capability of every detector can be checked from the fire detection control panel.
 - If this is supported by all elements that have been installed on the loop, the LIF601-2 can automatically increase the supply voltage when a signalling device is activated, and in this way it can power a higher number of signalling devices per loop or support even longer lines.
 - The loop lines are accessible via pluggable screw terminals, the OC outputs are accessible via flat cable connectors.

Specifications:

Current consumption typ.	35 mA (without detectors, modules)
Output current max.	600 mA
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	160 × 65 × 20 mm
Weight	80 g

211191 Loop Interface Redundant LIFR601-2

The Loop Interface LIFR601-2 with integrated redundant processor has the same range of functions as the Loop Interface LIF601-2. However, in the event of a failure of the main processor on the loop interface, the redundant processor takes on the handling of the loop as well as the communication with the central processing board. Therefore, the redundant loop interface is ideally suited for systems with especially high demands on failure safety – for example in extinguishing systems.



Specifications:

Current consumption typ.	41 mA (without detectors, modules)
Output current max.	600 mA
Dimensions L × W × H	160 × 65 × 20 mm
Weight	90 g

211113 Fire Brigade Interface FWI600-1

The Fire Brigade Interface FWI600-1 allows the connection of a transmitting device for the direct interconnection to a designated alarm respondent (e.g., the fire brigade) as well as the connection of a country-specific fire brigade control unit to Fire Detection Control Panels Series BC600.



Features:

- One freely parameterisable relay output with dry change-over contact
- One monitored output with parameterisable monitoring current
- Eight inputs and eight OC outputs, freely parameterisable, for the connection of a country-specific fire brigade control unit and other devices
- The inputs are accessible via pluggable screw terminals, the outputs are also routed in parallel to flat cable connectors

Specifications:

Current consumption typ.	6 mA
Current consumption max.	19 mA (monitored output connected)
Output current max. OC outputs	35 mA
Contact rating	1 A / 60 V / 30 W
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	160 × 65 × 25 mm
Weight	80 g

211114 Fire Brigade Interface Redundant FWIR600-1

The Fire Brigade Interface FWIR600-1 with integrated redundant processor has the same range of features as the Fire Brigade Interface FWI600-1. However, in the event of a failure of the main processor on the fire brigade interface, the redundant processor takes on the handling of the inputs and outputs as well as the communication with the central processing board. Therefore, the redundant fire brigade interface is ideally suited for systems with especially high demands on the failure safety.



Specifications:

Current consumption typ.	10 mA
Output current max. OC outputs	35 mA
Dimensions L × W × H	160 × 65 × 25 mm
Weight	90 g

211141 Input/Output Interface MEA644-1

The module unit MEA644-1 expands a Fire Detection Control Panel Series BC600 by 4 conventional detector lines and 4 monitored outputs. The module is attached to a free mounting position of the backplane through which it is connected to the system bus. The system bus interface is galvanically isolated, the module is powered by an external power supply. The conventional lines allow the connection of contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) and automatic detectors. The outputs serve for the connection of control devices (e.g., solenoid valves, relay coils) and provide separate monitoring of line resistance and load resistance. The reference value of both resistances is determined by means of an calibration procedure during commissioning. If one of the two resistance values differs significantly from the reference value during operation, the output is indicated as faulty. The monitoring of the supply voltage can also be set. The patented method of multiple monitoring allows reliable detection of line faults or load faults. An optional Line-Coupler LKR21-1 allows redundant connection of solenoid valves in accordance with EN 12094-1.



Features:

- Conventional detector lines monitored for wire breakage and short circuit
- Load resistance and/or line resistance of the supply line are monitored by means of a patented method
- Calibration by measuring the line resistance and internal resistance, initiated by a keystroke on the BC600 or through PARSOFT
- Supply voltage monitored for undervoltage and overvoltage
- The inputs and outputs are accessible via pluggable screw terminal blocks

Specifications:

Operating voltage	from 20 VDC to 30 VDC
Current consumption typ.	34 mA (without detectors and end-of-line elements)
Load current per output max.	1.5 A
Ambient temperature	from -20 °C to 60 °C
Ambient temperature	from 5 °C to 50 °C (control devices, to ensure the functioning of the fault detection)

Dimensions L × W × H	160 × 65 × 35 mm
Weight	90 g

Cross-references	Page	Art.No.	Name Type
	45	211998	Included System Bus Cables and System Supply Cables
	42	223051	Voltage Coupler redundant SKR600-1
	22	229014	Voltage Stabilizer 24VDC STAB24-3
	22	249097	Line-Coupler Redundance Control LKR21-1

211142 Input/Output Interface Redundant MEAR644-1

The module unit MEAR644-1 with integrated redundant processor has the same range of features as the Input/Output Interface MEA644-1. However, in the event of a failure of the main processor, the handling of the inputs and outputs is maintained. Therefore, the redundant input/output interface is ideally suited for systems with especially high demands on the failure safety – for example in extinguishing systems.



Specifications:

Current consumption typ.	40 mA (without detectors and end-of-line elements)
Dimensions L × W × H	160 × 65 × 35 mm
Weight	100 g

211154 Analogue Interface AIF604-1

The module unit AIF604-1 expands a Fire Detection Control Panel Series BC600 by 4 analogue inputs with 4-20 mA interface. The analogue inputs have been designed for the connection of any industrial sensors with a 4-20 mA interface (e.g., gas detectors, flame detectors). The sensors can be powered by the analogue interface or by an external power supply. Depending on that, the sensors can be connected in 2-wire, 3-wire or 4-wire technology.



In addition, the Analogue Interface AIF604-1 is equipped with 8 freely parameterisable open-collector outputs for general control tasks.

Features:

- Sensor connection line monitored for wire breakage and short circuit
- Parameterisable limitation of the supply voltage
- 8 events can be parameterised per analogue input: 4 logic inputs with 2 thresholds each – for alarm and pre-warning (technical message)
- Events activated when threshold is exceeded or value falls below threshold
- The inputs are accessible via pluggable screw terminals, the outputs are accessible via flat cable connectors

Specifications:

Supply voltage (without limitation)	from 20 VDC to 28 VDC
Current consumption typ.	9 mA at 24 V (no sensor connected)
Current consumption max.	200 mA (per sensor, internal supply)
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	160 × 65 × 35 mm
Weight	80 g

211158 Analogue Interface Redundant AIFR604-1

The Analogue Interface AIFR604-1 with integrated redundant processor has the same range of features as the Analogue Interface AIF604-1. However, in the event of a failure of the main processor on the analogue interface, the redundant processor takes on the handling of the 4 analogue inputs. Therefore, the redundant analogue interface is ideally suited for systems with especially high demands on the failure safety.



Specifications:

Current consumption typ.	13 mA at 24 V (no sensor connected)
Dimensions L × W × H	160 × 65 × 35 mm
Weight	90 g

211155 Output Interface Redundant OIFR664-1

The module unit OIFR664-1 expands a Fire Detection Control Panel Series BC600 by 64 open-collector outputs. It allows you to implement a huge number of very extensive control tasks in the fire detection system with little effort.

Thanks to the integrated redundant processor, the processing of the outputs is maintained in the event of a failure of the main processor. Therefore, the output interface is ideally suited for systems with especially high demands on failure safety – for example in extinguishing systems.



Specifications:

Current consumption typ.	8 mA (from the backplane)
Switching current per output	35 mA
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	160 × 65 × 14 mm
Weight	60 g

Cross-references	Page	Art.No.	Name Type
	45	211998	Included System Bus Cables and System Supply Cables

211125 Serial Interface SIF601-2/ESPA

The Serial Interface SIF601-2/ESPA facilitates the extension of a Fire Detection Control Panel Series BC600 with a galvanically isolated RS232C interface or, alternatively, with an additional INFO bus or INFO bus EP interface. The usage of the interface as well as the baud rate can be parameterised.

The RS232C interface can be used as ESPA interface. The ESPA interface is needed for the communication with pager systems, DECT systems, visual call systems, etc., which have an ESPA 4.4.4 interface for receiving clear text information. By means of PARSOFT, the parameters for the communication as well as filters for certain message types (alarms, technical messages, etc.) can be set for up to 5 pagers.

The INFO bus or INFO bus EP can be used for connecting additional INFO bus devices if the INFO bus interface on the central processing board is not sufficient. By defining filters, the output of events can be limited.



Specifications:

Current consumption typ.	14 mA
Current consumption max.	36 mA (INFO bus active)
Output current max. (at 24 VDC)	180 mA
Interface	RS232C, galvanically isolated, up to 57.6 kbaud INFO bus, up to 4800 baud INFO bus EP, up to 14400 baud

Connections	RS232C: 9-pole D-SUB plug or 10-pole flat cable connector INFO bus: 2-pole pluggable screw terminal Auxiliary voltage 24 VDC: 2-pole pluggable screw terminal
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	160 × 65 × 20 mm
Weight	50 g

211126 Serial Interface SIF601-3/ZLT

The Serial Interface SIF601-3/ZLT facilitates the extension of a Fire Detection Control Panel Series BC600 with a galvanically isolated RS232C interface or, alternatively, with an additional INFO bus or INFO bus EP interface. The RS232C interface serves as bi-directional ZLT interface. It is needed for the communication with higher operation control systems. By means of bi-directional communication, the higher operation control system also allows, in addition to the indication of all conditions, the operation of the zones, actuations, etc.



Specifications:

Current consumption typ.	14 mA
Current consumption max.	36 mA (INFO bus active)
Output current max. (at 24 VDC)	180 mA
Interface	RS232C, galvanically isolated, up to 57.6 kbaud INFO bus, up to 4800 baud INFO bus EP, up to 14400 baud
Connections	RS232C: 9-pole D-SUB plug or 10-pole flat cable connector INFO bus: 2-pole pluggable screw terminal Auxiliary voltage 24 VDC: 2-pole pluggable screw terminal
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	160 × 65 × 20 mm
Weight	50 g

211127 Serial Interface SIF601-4/ZLT-UNI

The Serial Interface SIF601-4/ZLT-UNI is structured in the same way as the Serial Interface SIF601-3/ZLT, but the SIF601-4/ZLT-UNI has a unidirectional ZLT interface for transmitting the events and system conditions to higher operation control systems which indicate the conditions of the fire detection control panel. However, operation of the zones, actuations, etc. is not possible.



Specifications:

Current consumption typ.	14 mA
Output current max. (at 24 VDC)	180 mA
Dimensions L × W × H	160 × 65 × 20 mm
Weight	50 g

211455 Serial Interface SIF601-9

The Serial Interface SIF601-9 facilitates the extension of a Fire Detection Control Panel Series BC600 with an additional INFO bus or INFO bus EP interface. The baud rate can be parameterised.

The INFO bus or INFO bus EP can be used for connecting additional INFO bus devices if the INFO bus interface on the central processing board is not sufficient. By defining filters, the output of events can be limited.



Specifications:

Current consumption typ.	14 mA
Current consumption max.	36 mA (INFO bus active)
Output current max. (at 24 VDC)	180 mA
Interface	INFO bus: up to 4800 baud
	INFO bus EP: up to 14400 baud
Connections	INFO bus: 2-pole pluggable screw terminal
	Auxiliary voltage 24 VDC: 2-pole pluggable screw terminal
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	160 × 65 × 20 mm
Weight	50 g

211156 Serial Interface SIF622-1

The Serial Interface SIF622-1 facilitates the extension of a Fire Detection Control Panel Series BC600 with two separate, galvanically isolated „Signal bus“ interfaces according to the RS485 standard. The parameters of the interfaces can be adjusted individually.

Each of the two RS485 interfaces can be used to connect up to 16 compatible Signal bus devices to the Fire Detection Control Panel Series BC600. These include, for example, the Fire Brigade Control Unit FBF58-4, the Remote Tableau SG70-2, the Remote Tableau Drive Unit PTU288-2 as well as future fire brigade display devices. By defining filters, the output of events can be limited.



Specifications:

Current consumption typ.	31 mA
Baudrate	19000 Baud 38000 Baud 58000 Baud 115000 Baud
Interface	RS485, galvanically isolated
Connections	2 × 3-pole pluggable screw terminal
Line type	2-wire, shielded, min. CAT5
Line length max.	1200 m
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	160 × 65 × 20 mm
Weight	55 g

211122 Network Interface NIF600-1

The network interface is used for networking the sectional control panels of a Fire Detection Control Panel BCnet600 or other net600 members via the control panel network net600. The componentry is needed for upgrading a Fire Detection Control Panel Series BC600 to a BCnet sectional control panel.



Features:

- Independent microprocessor to maintain the network communication even at system fault of the control panel
- net600 can be implemented as bus or ring
- Full function of the networked control panel in the event of a single wire breakage on the ring-shaped network line
- Status LEDs indicate the network communication
- Network connections are available on pluggable screw terminals

Specifications:

Current consumption typ.	31 mA
Interface	RS485: galvanically isolated, up to 115 kBaud
Connections	pluggable screw terminals
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	160 × 65 × 20 mm
Weight	55 g

211123 Network Interface Redundant NIFR600-1

The Network Interface NIFR600-1 with integrated redundant processor has the same range of features as the Network Interface NIF600-1. In the event of a failure of the main processor on the network interface, the redundant processor takes on the handling of the communication via the net600 network. Therefore, the redundant network interface is ideally suited for systems with especially high demands on the failure safety.



Specifications:

Current consumption typ.	47 mA
Dimensions L × W × H	160 × 65 × 20 mm
Weight	70 g

211145 Network Interface NIFS600-1

The Network Interface NIFS600-1 has the same range of features as the Network Interface NIF600-1, but it is intended for the redundant networking of BCnet600 sectional control panels via a secondary network secnet600. In this way, the failure safety of the network is improved significantly and the full function of the networked control panels is ensured in the event of three wire breakages on the ring-shaped network lines.



Specifications:

Current consumption typ.	31 mA
Dimensions L × W × H	160 × 65 × 20 mm
Weight	55 g

211146 Network Interface Redundant NIFSR600-1

The Network Interface NIFSR600-1 with integrated redundant processor has the same range of features as the Network Interface NIFR600-1. In the event of a failure of the main processor on the network interface, the redundant processor takes on the handling of the communication via the secondary network secnet600. Therefore, the redundant network interface is ideally suited for systems with especially high demands on the failure safety.



Specifications:

Current consumption typ.	47 mA
Dimensions L × W × H	160 × 65 × 20 mm
Weight	70 g

211143 Relay Module RL608-1

The Relay Module RL608-1 is designed for the switching of loads via eight dry contacts, which can be actuated independently of each other. The componentry is primarily intended for installation in Fire Detection Control Panels Series BC600. It is attached to the backplane of the control panel, but it is not connected to the system bus.



After breaking off the section of the printed circuit board that is not equipped with components, the relay module can also be used in Fire Detection Control Panels Series BC216, Series BC016, Series BC08 and Series BC06.

Features:

- Eight independent relays with one dry contact each
- By means of jumpers, each contact can be individually set as normally open contact, as normally closed contact or as normally open contact with signalling resistors for the VdS extinguishing system interface
- Galvanically isolated relay contacts routed to pluggable screw terminals
- LED displays activation of each relay
- Connection of trigger inputs via flat cable (included in the delivery)

Specifications:

Operating voltage	from 20 VDC to 30 VDC
Current consumption typ.	22 mA (per activated circuit)
Contact rating	1 A / 60 V / 30 W
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	160 × 65 × 35 mm
Dimensions L × W × H	104 × 65 × 35 mm (after breaking off the printed circuit board)
Weight	105 g

Cross-references	Page	Art.No.	Name Type
	78	229008	Flat Cable 1700mm/10-Pole FBK17-1

1.1.8 Display/Operating Boards and Expansion Fields

The use of additional devices on the BC600, such as LED tableaux, button fields, a fire brigade control unit or an event printer is especially easy. At the front of the housing there are up to 4 mounting spaces for expansions, which allow the additional devices to be integrated directly into the control panel. In this way, space is saved and a tidy arrangement is ensured, at the same time the costs for auxiliary case, mounting and cabling are reduced. The extensions are parameterised together with the control panel by means of PARSOFT.

211351 Remote Display and Operation Panel ABF600-1

The Remote Display and Operation Panel ABF600-1 is used as remote indication unit of a networked Fire Detection Control Panel BCnet600. A display and operating field with 1/4 VGA graphics display, LED displays as well as a keypad are integrated into the powder coated sheet steel housing. As a result, the unit offers the same functionality as the display and operating field of a Control Panel Series BC600. The ABF600-1 is linked to the networked Fire Detection Control Panel BCnet600 via the redundant high-security network net600. Power is supplied by a neighbouring control panel and, if necessary, the power supply implementation can also include redundancy and compliance with EN 54-13.



Features:

- Operation and indication of all events of the fire detection control panel
- 1/4 VGA graphics display
- Menu-controlled user guidance
- Function keys for stress-free operation
- Permanent monitoring of the data communication within the net600 network

Specifications:

Operating voltage	from 16 VDC to 30 VDC
Current consumption typ.	56 mA (at 24 V, quiescent)
Current consumption max.	118 mA (alarm)
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	216 × 385 × 33 mm
Weight	2.2 kg
RAL colour	grey white, RAL 9002
Approval number VdS	G 218065

211353 Remote Display and Operation Panel ABF600-CE1

The Remote Display and Operation Panel ABF600-CE1 in the compact front-mount housing is intended for installation in 19" housings or 19" cabinets. All functions and features are identical to those of the Remote Display and Operation Panel ABF600-1.



Specifications:

Current consumption typ.	56 mA (at 24 V, quiescent)
Dimensions W × H × D	478 × 355 × 30 mm
Weight	2.4 kg
Height units	8

211330 Display and Operating Front Panel ABP600-1L

The Display And Operating Front Panel ABP600-1L is designed as 19" front panel with 8 rack units and is used as display and operating unit of a Fire Detection Control Panel Series BC600, which is assembled in a switch cabinet. It contains a display and operating field with 1/4 VGA graphics display, LED displays as well as a membrane keypad. In addition, the display and operating front panel has two mounting spaces for optional expansions such as LED Display Fields LAF648-x.



The Display And Operating Front Panel ABP600-1L is actuated via a System Bus Cable SBK600-2,0, which is connected to the bus system of the fire detection control panel. Power is supplied through a System Supply Cable SVK600-4,0 which is connected to a power unit of the fire detection control panel. Both cables are included in the delivery, other cable lengths are available.

Specifications:

Current consumption typ.	87 mA (with backlight, LEDs inactive)
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	478 × 355 × 30 mm
Height units	8
Weight	2.9 kg
Approval number CPR	0786-CPR-21611
Approval number VdS	G 212164

Cross-references	Page	Art.No.	Name Type
	45	211998	Included System Bus Cables and System Supply Cables
	38	211117	LED Display Field LAF648-1

211117 LED Display Field LAF648-1

The LED Display Field LAF648-1 has 48 freely parameterisable LED pairs (each consisting of one red and one yellow LED) for the individual indication of events of the detectors, detector zones, actuations, transmitting devices or alarming devices and of system functions at Fire Detection Control Panels Series BC600. The LED display field is actuated via the UI bus of the control panel.



Features:

- 48 LED pairs (left: red LED, right: yellow LED), arranged in 3 rows of 16 pairs each
- Freely parameterisable to indicate the activation, the disablement or the fault condition of the parameterised event
- Designation labels allow every LED pair to be individually marked

Specifications:

Current consumption typ.	5 mA (quiescent)
Current consumption max.	15 mA (all LEDs active)
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	218 × 155 × 30 mm
Weight	380 g

Cross-references	Page	Art.No.	Name Type
	45	211998	Included System Bus Cables and System Supply Cables
	37	211330	Display and Operating Front Panel ABP600-1L
	108	211331	Expansion Front Panel 19"/4HU EFP600-1

211120 LED Display Field LAF648-2

The LED Display Field LAF648-2 is structured in the same way as the LED Display Field LAF648-1. However, the 48 freely parameterisable LED pairs consist of a LED with selectable colour (red or yellow) as well as a yellow LED.

Features:

- 48 LED pairs (left: illuminates red or yellow, right: yellow LED), arranged in three rows of 16 pairs each

Specifications:

Current consumption typ.	5 mA (quiescent)
Dimensions W × H × D	218 × 155 × 30 mm
Weight	380 g

211121 LED Display Field LAF648-3

The LED Display Field LAF648-3 is structured in the same way as the LED Display Field LAF648-1. However, the 48 freely parameterisable LED pairs consist of a LED with selectable colour (red or green) as well as a yellow LED.

Features:

- 48 LED pairs (left: illuminates red or green, right: yellow LED), arranged in three rows of 16 pairs each

Specifications:

Current consumption typ.	5 mA (quiescent)
Dimensions W × H × D	218 × 155 × 30 mm
Weight	380 g

211118 LED Button Field LTF616-1

The LED Button Field LTF616-1 contains 16 freely parameterisable LED pairs with selectable colour (red or yellow) as well as 16 buttons. The LEDs can be used individually or in pairs, to indicate events of the detectors, detector zones, actuations, transmitting devices or alarming devices as well as system functions, on Fire Detection Control Panels Series BC600. The buttons allow any operation on the control panel. The LED button field can be installed in one of the expansion fields in the door of the fire detection control panel, in the Display And Operating Front Panel ABP600-1L or in the Expansion Front Panel EFP600-1, and is actuated via the UI bus of the control panel.



Features:

- 16 freely parameterisable LED pairs (which illuminate red or yellow)
- Indication of activation, disablement condition and fault condition for the parameterised event
- 16 freely parameterisable buttons for any operations, located next to the LED pairs
- Labelling strips permit individual lettering of each LED pair and each button

Specifications:

Current consumption typ.	5 mA (quiescent)
Current consumption max.	9 mA (all LEDs active)
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	218 × 155 × 30 mm
Weight	350 g

Cross-references	Page	Art.No.	Name Type
	45	211998	Included System Bus Cables and System Supply Cables
	37	211330	Display and Operating Front Panel ABP600-1L
	108	211331	Expansion Front Panel 19"/4HU EFP600-1

211140 LED Button Field LTF616-2

The LED Button Field LTF616-2 is structured in the same way as the LED Button Field LTF616-1. However, the 16 freely parameterisable LED pairs consist of a LED with red or green colour as well as a LED with red or yellow colour.

Features:

- 16 freely parameterisable LED pairs (top: illuminates red or green, bottom: illuminates red or yellow)

Specifications:

Current consumption typ.	5 mA (quiescent)
Dimensions W × H × D	218 × 155 × 30 mm
Weight	350 g

211144 LED Button Field Redundant LTFR616-3

The LED Button Field LTFR616-3 with integrated redundant processor has the same range of features as the LED Button Field LTF616-1. However, in the event of a failure of the main processor, the handling of the LED displays and buttons is maintained. Therefore, the redundant LED button field is ideally suited for systems with especially high demands on the failure safety – for example in extinguishing systems.



Furthermore, 8 of the 16 freely parameterisable LED pairs consist of a LED with red or green colour as well as a LED with red or yellow colour.

Features:

- 8 freely parameterisable LED pairs (top: illuminates red or green, bottom: illuminates red or yellow)
- 8 freely parameterisable LED pairs (upper and lower LED: illuminating red or yellow)

Specifications:

Current consumption typ.	10 mA (quiescent)
Dimensions W × H × D	218 × 155 × 30 mm
Weight	350 g

211377 Printer-Set for BC600 ED600-1/INT1

The set consists of the Printer Field EDF600-1/INT1, the Serial Interface SIF601, and all parts needed for installation in a Fire Detection Control Panel BC600. It is used for printing out the events on the fire detection control panel. For the installation of the serial interface, a free slot for function modules is needed on the fire detection control panel. Depending on the parameterisation, the events can be printed immediately when they occur, or only after manually starting the print-out through the menu. The printer field can be installed in one of the expansion fields in the door of the fire detection control panel, in the Display And Operating Front Panel ABP600-1L or in the Expansion Front Panel EFP600-1. The unit is actuated via a Serial Interface SIF601.



The Printer Field EDF600-1/INT1 supports the special characters of the following languages: Hungarian, Czech, Slovak, Polish, Bosnian, Croatian, Slovene, Romanian, Serbian, Russian, Turkish.

Note: Due to the high installation depth, the unit can not be installed in control panels in the 19" front-mount housing (BC600-CE8xxx).

The delivery scope includes a printer field, a serial interface, a system supply cable as well as a data cable.

Features:

- Print-out with 24 or 42 characters per line
- Print-out with or without detailed information and with or without empty lines
- Parameterisable filters for different types of events and for freely definable number ranges
- Easy replacement of the roll of thermal paper by opening the front panel
- Paper feed button

Specifications:

Current consumption typ.	39 mA (idle)
Current consumption max.	664 mA (while printing)
Cable length	1.5 m
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	218 × 155 × 55 mm
Weight	500 g
RAL colour	grey white, RAL 9002

Cross-references	Page	Art.No.	Name Type
	45	211998	Included System Bus Cables and System Supply Cables

229019 Spare Paper/Pack 5 Rolls EDF600/EP-5ROLLEN

The package unit contains 5 spare rolls of thermal paper for the Printer Field EDF600-1. Approx. 5000 lines can be printed per roll.

Specifications:

Paper width 57 mm



1.1.9 Power Supply Devices

211130 Power Supply NT602-1

The power unit NT602-1 is used as power supply of a Fire Detection Control Panel Series BC600 and the connected additional devices as well as for charging the stand-by batteries. The power unit is implemented in the form of a primary switched-mode power supply with high efficiency, which results in low self-heating and a long life span.

The power unit NT602-1 can be installed as extension in a Control Panel BC600-16xxx in the large wall-mount cabinet or in an Extension Housing GEHZ600-16 as well as in a Control Panel BC600-E, which has been assembled in a switch cabinet. The output voltage is available at two connectors that are intended for connection of the system supply cables. The data connection to the central processing board is established via the system bus.

The power unit monitors all important characteristic values of the power supply (e.g., mains voltage, battery voltage, internal resistance of the stand-by battery, earth fault, supply voltage of the external devices). A malfunction is transmitted to the central processing board as fault. The stand-by batteries are charged with current limiting and temperature optimisation.



Specifications:

Mains voltage	230 VAC +10/-20 %, 47 - 63 Hz
Connected load	75 W
Output current power supply	2.3 A
Output voltage typ.	27.6 VDC
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	158 × 131 × 70 mm
Weight	450 g

Cross-references	Page	Art.No.	Name Type
	42	223051	Voltage Coupler redundant SKR600-1

211131 Power Supply NT604-1

The functions of the Power Supply NT604-1 correspond to those of the Power Supply NT602-1, but it has a maximum output current of 4.3 A.

Up to 4 Power Supplies NT604-1 or NT608-1 can be managed per control panel. The output voltage is available at four connectors that are intended for connection of the system supply cables.

Specifications:

Connected load	140 W
Output current power supply	4.3 A
Dimensions W × H × D	158 × 197 × 70 mm
Weight	900 g



211132 Power Supply NT608-1

The functions of the Power Supply NT608-1 correspond to those of the Power Supply NT602-1, but it has a maximum output current of 8.5 A.

Up to 4 Power Supplies NT604-1 or NT608-1 can be managed per control panel. The output voltage is available at six connectors that are intended for connection of the system supply cables.



Specifications:

Connected load	260 W
Output current power supply	8.5 A
Dimensions W × H × D	158 × 197 × 80 mm
Weight	1.3 kg

223051 Voltage Coupler redundant SKR600-1

The voltage coupler allows you to couple two independent power supplies in order to power the componentries of a Fire Detection Control Panel Series BC600 in a redundant way. The voltage coupler monitors the supply voltages of both power units and always switches the higher voltage through to the output.

Coupling two power units ensures very high failure safety of the power supply for special applications (for example, large extinguishing systems).

The condition of the two power supplies is indicated by one light emitting diode each. The failure of one or both supply voltages can be forwarded via the fault output.



Specifications:

Supply voltage	from 21 VDC to 30 VDC
Current consumption typ.	8 mA (at 24 V)
Output current max. (voltage output)	8 A
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	48 × 74 × 18 mm
Weight	25 g

Cross-references	Page	Art.No.	Name Type
	45	211998	Included System Bus Cables and System Supply Cables

223052 Power Distributor Board SVB5-1

The power distributor board is used to provide the supply voltage that is applied at the input at five independently fused outputs. For each output, an individual LED indicates whether the output voltage is available. The input voltage is connected via screw terminals. Via two more screw terminals, the input voltage can be routed to another SVB5-1 componentry. There are individual clamp terminals for the outputs.



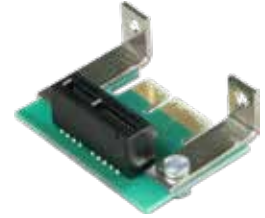
Specifications:

Supply voltage	from 20 VDC to 30 VDC
Current consumption typ.	1 mA (at 24 V, all outputs active)
Fuse	0.5 A fast-acting
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	98 × 74 × 21 mm
Weight	55 g

1.1.10 Electrical Equipment

211419 Backplane BPL601-1

The Backplane BPL601-1 is used to expand a compact fire detection control panel BC600-1L or BC600-1D by an additional mounting position for a function module. Via the backplane, the function module is powered and the data connection to the central processing board is established. The backplane comes with the mounting material that is needed for mounting on the Central Processing Board ZTB601-1.



Specifications:

Dimensions W × H × D 43 × 33 × 16 mm
Weight 15 g

211151 Backplane BPL608-1

The Backplane BPL608-1 is used to expand a Fire Detection Control Panel Series BC600 by 8 additional mounting positions for function modules. The Backplane BPL608-1 can be used in Control Panels BC600-16xxx in the large wall-mount cabinet as well as in the Auxiliary Housing GEH600-16. Via the backplane, the function modules are powered and the data connection to the central processing board is established.



The backplane is provided with a connector for the connection of the supply voltage and with two connectors for the connection of the system bus. By means of an address switch, the address of the backplane can be set in the range 1 ... 8.

Specifications:

Dimensions W × H × D 265 × 88 × 18 mm
Weight 110 g

Cross-references	Page	Art.No.	Name Type
	45	211998	Included System Bus Cables and System Supply Cables

211152 Backplane BPL610-1

The Backplane BPL610-1 provides 10 mounting positions for components of a Fire Detection Control Panel Series BC600. Two mounting positions are reserved for the central processing board, the remaining mounting positions can be used for expanding the control panel by 8 function modules. Via the backplane, the function modules are powered and the data connection to the central processing board is established. The backplane is already included in the basic version of the Control Panels BC600-8xxx, BC600-CE8xxx and BC600-16xxx.



In order to expand a Control Panel Series BC600, the Backplane BPL610-1 can be installed in an empty housing GEH600-8 or GEH600-16 and can accommodate up to 8 function modules. The mounting positions that are reserved for the ZTB600 cannot be used in this case.

The backplane is provided with a connector for the connection of the supply voltage and with two connectors for the connection of the system bus. By means of a solder bridge, the preset address 1 of the backplane can be changed to the address 2.

Specifications:

Dimensions W × H × D 348 × 50 × 18 mm
Weight 100 g

250021 Key Switch Set Complete SCH70-1

The Key Switch SCH70-1 can be optionally installed in a Fire Detection Control Panel BC600-8xxx, BC600-16xxx or BC600-1D, in the Remote Display And Operation Panel ABF600-1, or in the Remote Tableau SG70-1, if the authorization for the operation is to be enabled by means of a key. The key switch can also be installed later.



250060 Key switch-FB-Sweden SSBC600-1/S1

The key switch according to SS3654 (Swedish Standard Fire Key Lock) can be optionally installed in a Fire Detection Control Panel BC600-8xxx, BC600-16xxx, BC600-1x or in the Remote Display And Operation Panel ABF600-1 if the authorization for operation is to be enabled by means of a key. The key switch has two connecting wires with a total length of approx. 150 mm which are provided with a socket, and therefore it is intended for connection to the connector of the ABB600. The device is delivered without a key. The key switch can also be installed later.



250027 Key switch-FB-Sweden SSFW70-1/S1

The key switch according to SS3654 (Swedish Standard Fire Key Lock) can be optionally installed in a Fire Detection Control Panel BC600-8xxx, BC600-16xxx or BC600-1D if the authorization for operation is to be enabled by means of a key. The key switch is provided with two flying leads with a total length of 950 mm and open ends, and therefore is intended for connection to inputs of the fire detection control panel. The device is delivered without a key. The key switch can also be installed later.



211165 Door Contact Switch TKS600-1

The Door Contact Switch TKS600-1 is used to monitor whether or not the door of a Fire Detection Control Panel BC600-8xxx or BC600-16xxx is open. The contact is installed in the door of the control panel and is connected to the input of the display and operating board.



211179 Termination Connector SBA600-1

The termination connector is needed for the defined termination of the internal bus system of a Fire Detection Control Panel Series BC600. Two of these connectors are needed per fire detection control panel and are already included in the basic version of the control panel.



Specifications:

Connections
Dimensions W × H × D

Connector RJ45
20 × 20 × 10 mm

211998 Included System Bus Cables and System Supply Cables

The following table gives an overview of the system bus cables and system supply cables that come with the product. Cables that are needed in addition must be ordered separately.

Art.No.	Componentry	System bus cable	System supply cable
211330	Display and Operating Front Panel ABP600-1L	1 × SBK600-2,0	1 × SVK600-4,0
211151	Backplane BPL608-1	1 × SBK600-0,5	-----
211150	Function Module Carrier FMT608-1	1 × SBK600-0,5	-----
211117	LED Display Field LAF648-1	1 × SBK600-0,5	1 × SVK600-0,6
211120	LED Display Field LAF648-2	1 × SBK600-0,5	1 × SVK600-0,6
211121	LED Display Field LAF648-3	1 × SBK600-0,5	1 × SVK600-0,6
211118	LED Button Field LTF616-1	1 × SBK600-0,5	1 × SVK600-0,6
211140	LED Button Field LTF616-2	1 × SBK600-0,5	1 × SVK600-0,6
211144	LED Button Field redundant LTFR616-3	1 × SBK600-0,5	1 × SVK600-0,6
211376	Printer-Set for BC600 ED600-1	-----	1 × SVK600-2,0
211377	Printer-Set for BC600 ED600-1/INT1	-----	1 × SVK600-2,0
211130	Power Supply NT602-1	1 × SBK600-2,0	1 × SVK600-2,0
211131	Power Supply NT604-1	1 × SBK600-2,0	2 × SVK600-2,0
211132	Power Supply NT608-1	1 × SBK600-2,0	2 × SVK600-2,0
223051	Voltage Coupler redundant SKR600-1	-----	3 × SVK600-1,0
211141	Input-Output-Interface MEA644-1	-----	1 × SVK600-0,25
211142	Inp.-Outp.-Interface redund. MEAR644-1	-----	1 × SVK600-0,8
211155	Output Interface redundant OIFR664-1	-----	1 × SVK600-0,8

211170 System Bus Cable SBK600-0,25

The system bus cable is needed for the connection of optional componentries to the internal bus system of a Fire Detection Control Panel Series BC600. The cable has to be ordered in addition to an optional componentry if the length of the cable that is included with the componentry does not fit the respective application.



Specifications:

Connections
Cable length

on both sides RJ45 connector, shielded
0.25 m

211171 System Bus Cable SBK600-0,5

The cable corresponds to the System Bus Cable SBK600-0,25, but the length is 0.5 m.

211172 System Bus Cable SBK600-0,75

The cable corresponds to the System Bus Cable SBK600-0,25, but the length is 0.75 m.

211173 System Bus Cable SBK600-1,0

The cable corresponds to the System Bus Cable SBK600-0,25, but the length is 1 m.

211174 System Bus Cable SBK600-1,5

The cable corresponds to the System Bus Cable SBK600-0,25, but the length is 1.5 m.

211175 System Bus Cable SBK600-2,0

The cable corresponds to the System Bus Cable SBK600-0,25, but the length is 2 m.

211180 System Supply Cable SVK600-0,25

The flexible 2-wire cable is needed to supply power to optional componentries of a Fire Detection Control Panel Series BC600. The cable has to be ordered in addition to an optional componentry if the length of the cable that is included with the componentry does not fit the respective application.

Specifications:

Connections	female connector on both sides
Line cross-section	0.75 mm ²
Cable length	0.25 m

211181 System Supply Cable SVK600-0,6

The cable corresponds to the System Supply Cable SVK600-0,25, but the length is 0.6 m.

211182 System Supply Cable SVK600-0,8

The cable corresponds to the System Supply Cable SVK600-0,25, but the length is 0.8 m.

211183 System Supply Cable SVK600-1,0

The cable corresponds to the System Supply Cable SVK600-0,25, but the length is 1 m.

211184 System Supply Cable SVK600-1,35

The cable corresponds to the System Supply Cable SVK600-0,25, but the length is 1.35 m.

211185 System Supply Cable SVK600-2,0

The cable corresponds to the System Supply Cable SVK600-0,25, but the length is 2 m.

211186 System Supply Cable SVK600-4,0

The cable corresponds to the System Supply Cable SVK600-0,25, but the length is 4 m.

1.1.11 Housings and Mechanical Equipment

211160 Extension Housing GEHZ600-16

The wall-mount cabinet made of powder coated sheet steel is used to install stand-by batteries, auxiliary modules and/or a power unit as supplement to Fire Detection Control Panels Series BC600 in the large wall-mount cabinet. The cabinet is prepared for the installation of

- two stand-by batteries 12 V/max. 45 Ah (at the cabinet bottom) and 2 Module Carriers BGT600-1 for auxiliary modules, or
- two stand-by batteries 12 V/max. 45 Ah (at the cabinet bottom), 1 Module Carrier BGT600-1 for auxiliary modules and one Power Supply NT60x-1, or
- four stand-by batteries 12 V/max. 45 Ah (two batteries at the cabinet bottom, two batteries on an optional Battery Bracket BK600-1), or
- two stand-by batteries 12 V/max. 65 Ah (one battery at the cabinet bottom, one battery on an optional Battery Bracket BK600-1)



Specifications:

Protection class	IP30
Dimensions W × H × D	480 × 390 × 201 mm
Weight without components	5.9 kg
RAL colour	grey white, RAL 9002

Cross-references	Page	Art.No.	Name Type
	41	211130	Power Supply NT602-1
	41	211131	Power Supply NT604-1
	42	211132	Power Supply NT608-1
	49	211372	Surface Mounting Frame AMR600-16Z

211206 Auxiliary Housing GEH600-8

The wall-mount cabinet made of powder coated sheet steel is used to install stand-by batteries, auxiliary modules and/or a power unit as supplement to Fire Detection Control Panels Series BC600 in the standard wall-mount cabinet.

The cabinet is prepared for the installation of

- two stand-by batteries 12 V/max. 22 Ah (at the cabinet bottom) and 4 Module Carriers BGT600-1 for auxiliary modules, or
- two stand-by batteries 12 V/max. 22 Ah (at the cabinet bottom), 3 Module Carriers BGT600-1 for auxiliary modules and one Power Supply NT60x-1.



Specifications:

Protection class	IP30
Dimensions W × H × D	444 × 530 × 121 mm
Weight without components	6.3 kg
RAL colour	grey white, RAL 9002

Cross-references	Page	Art.No.	Name Type
	41	211130	Power Supply NT602-1
	41	211131	Power Supply NT604-1
	42	211132	Power Supply NT608-1
	43	211152	Backplane BPL610-1
	50	211162	Module Carrier BGT600-1
	48	211370	Surface Mounting Frame AMR600-8
	52	219019	Lock for BC600 SCHLOSS-BC600-1

211244 Auxiliary Housing GEH600-16

The wall-mount cabinet made of powder coated sheet steel is used to install stand-by batteries, auxiliary modules and/or a power unit as supplement to Fire Detection Control Panels Series BC600 in the large wall-mount cabinet. The cabinet is prepared for the installation of

- two stand-by batteries 12 V/max. 45 Ah (at the cabinet bottom) and 6 Module Carriers BGT600-1 for auxiliary modules, or
- two stand-by batteries 12 V/max. 45 Ah (at the cabinet bottom), 5 Module Carrier BGT600-1 for auxiliary modules and one Power Supply NT60x-1



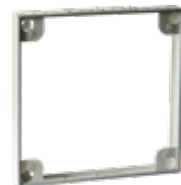
Specifications:

Protection class	IP30
Dimensions W × H × D	480 × 670 × 201 mm
RAL colour	grey white, RAL 9002
Weight (without batteries)	9.5 kg

Cross-references	Page	Art.No.	Name Type
	41	211130	Power Supply NT602-1
	41	211131	Power Supply NT604-1
	42	211132	Power Supply NT608-1
	43	211151	Backplane BPL608-1
	43	211152	Backplane BPL610-1
	50	211162	Module Carrier BGT600-1
	49	211371	Surface Mounting Frame AMR600-16
	52	219019	Lock for BC600 SCHLOSS-BC600-1

211373 Surface Mounting Frame AMR600-1

The mounting frame is made of powder coated sheet steel and allows a Fire Detection Control Panel BC600-1x to be mounted at a distance from the wall. Rubber seals on both sides ensure sealing to the wall and to the control panel, thereby protecting the control panel against ingress of moisture from the backside. The cables can also be entered through knock-out openings from the top side and bottom side. If the fire detection control panel is installed where it is visible, the concealed cable entry allows it to be mounted in an optically pleasing way.



The surface mounting frame can also be used for mounting a Power Supply Housing NTG624-1 at a distance from the wall.

Specifications:

Dimensions W × H × D	384 × 384 × 43 mm
Weight	1.25 kg
Material	powder-coated sheet steel 1 mm
RAL colour	grey white, RAL 9002

Cross-references	Page	Art.No.	Name Type
	49	229651	Sealing Kit IP54 BC600-1x-DS

211370 Surface Mounting Frame AMR600-8

The mounting frame AMR600-8 has the outer dimensions of the Fire Detection Control Panels BC600-8xxx and BC600-8Hxxx and therefore is intended for mounting these control panels at a distance from the wall. As regards the function and construction, the AMR600-8 is identical to the mounting frame AMR600-1.



Specifications:

Dimensions W × H × D	444 × 530 × 43 mm
Weight	1.65 kg

211371 Surface Mounting Frame AMR600-16

The mounting frame AMR600-16 has the outer dimensions of the Fire Detection Control Panels BC600-16xxx and therefore is intended for mounting these control panels at a distance from the wall. As regards the function and construction, the AMR600-16 is identical to the mounting frame AMR600-1.

Specifications:

Dimensions W × H × D	480 × 670 × 43 mm
Weight	1.85 kg



211372 Surface Mounting Frame AMR600-16Z

The mounting frame AMR600-16Z has the outer dimensions of the Extension Housing GEHZ600-16Z and therefore is intended for mounting this housing at a distance from the wall. As regards the function and construction, the AMR600-16Z is identical to the mounting frame AMR600-1.

Specifications:

Dimensions W × H × D	480 × 390 × 43 mm
Weight	1.45 kg



229651 Sealing Kit IP54 BC600-1x-DS

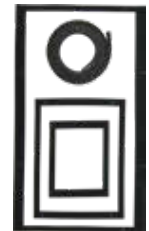
The Sealing Kit BC600-1x-DS is used to increase the protection class of the compact control panels Series BC600-1x or a Power Supply Housing NTG624-1 by sealing the door of the housing from the wall part, and by sealing the expansion fields in the door of the housing.

Protection class IP54 is only achieved if the housing is sealed from the wall by means of a Sealing Kit Wall IP54, or if a Surface Mounting Frame AMR600-1 is used.

The three-part sealing kit made of cellular rubber is used for sealing the expansion fields in the door of the housing. A 1550 × 10 × 3 mm self-adhesive flat cellular rubber strip that comes as a roll is used for sealing the door of the housing from the wall part.

Specifications:

Colour	black
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229652 Sealing Kit IP54 BC600-8-DS

The Sealing Kit BC600-8-DS is used to increase the protection class of the fire/extinguishing control panels in the housing version BC600-8xxx or BC600-8Hxxx by sealing the door of the housing from the wall part, and by sealing the expansion fields in the door of the housing.

Protection class IP54 is only achieved if the housing is sealed from the wall by means of a Sealing Kit Wall IP54, or if a Surface Mounting Frame AMR600-8 is used.

The two-part sealing kit made of cellular rubber is used for sealing the expansion fields in the door of the housing. A 1650 × 18 × 5.5 mm self-adhesive rubber profile that comes as a roll and a flat cellular rubber strip that has been cut to size are used for sealing the door of the housing from the wall part.



Specifications:

Colour black
white

Cross-references	Page	Art.No.	Name Type
	48	211370	Surface Mounting Frame AMR600-8

229653 Sealing Kit IP54 BC600-16-DS

As regards the function and construction, the Sealing Kit BC600-16-DS is identical to the Sealing Kit BC600-8-DS. However, due to the dimensions it is intended for sealing the fire/extinguishing control panels in the housing version BC600-16xxx.

229654 Sealing Kit IP54 BC600-16Z-DS

The Sealing Kit BC600-16Z-DS is used to increase the protection class of the Extension Housing GEHZ600-16 by sealing the door of the housing from the wall part.

Protection class IP54 is only achieved if the housing is sealed from the wall by means of a Sealing Kit Wall IP54, or if a Surface Mounting Frame AMR600-16Z is used.

A 1650 × 18 × 5.5 mm self-adhesive rubber profile that comes as a roll and a flat cellular rubber strip that has been cut to size are used for sealing the door of the housing from the wall part. The delivery scope includes a rubber seal that comes as a roll and a self-adhesive flat cellular rubber strip.



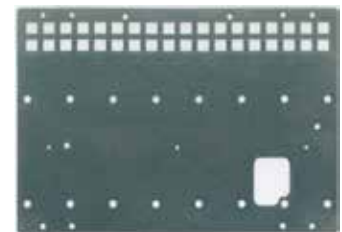
Specifications:

Colour black
white

Cross-references	Page	Art.No.	Name Type
	49	211372	Surface Mounting Frame AMR600-16Z

211162 Module Carrier BGT600-1

The Module Carrier BGT600-1 is made of zinc coated sheet steel and is provided with mounting holes in the LST standard grid. It allows easy installation of auxiliary modules. It can be used, for example, for quick and easy mounting of two Relay Modules RL608-1, RL58-1 or RL58-2, two Siren Connection Modules SZ58-3, 8 isolator modules or further componentries. The module carrier is included in the basic version of the Control Panels BC600-8xxx and BC600-16xxx and can also be installed in the Extension Housing GEHZ600-16.



Specifications:

Dimensions W × H 187 × 131 mm
 Weight 160 g
 Material sheet steel, 1 mm, galvanised

Cross-references	Page	Art.No.	Name Type
	21	211143	Relay Module RL608-1
	47	211206	Auxiliary Housing GEH600-8
	48	211244	Auxiliary Housing GEH600-16
	47	211160	Extension Housing GEHZ600-16
	75	222004	Relay Module RL58-1
	75	222010	Relay Module RL58-2
	76	223026	Siren Connection Module SZ58-3

211150 Function Module Carrier FMT608-1

The Function Module Carrier FMT608-1 is made of zinc coated sheet steel and is used for the installation of componentries in a Fire Detection Control Panel BC600-E in a switch cabinet. The unit is delivered with installed Backplane BPL608-1 for the accommodation of the control panel components (central processing board, function modules, etc.).

The function module carrier can be mounted on the Module Carrier MPL600/6H or directly on the mounting plate of a switch cabinet.



Specifications:

Dimensions W × H × D	172 × 266 × 101 mm
Weight incl. BPL608-1	770 g
Material	sheet steel, 1 mm, galvanised

Cross-references	Page	Art.No.	Name Type
	108	212040	Module Carrier 19"/6HU MPL600/6H

211161 Battery Bracket BK600-1

The Battery Bracket BK600-1 is designed for the installation of 2 stand-by batteries 12 V/max. 45 Ah or one stand-by battery 12 V/max. 65 Ah in the Extension Housing GEHZ600-16.



Specifications:

Dimensions W × H × D	476 × 10 × 140 mm
Weight	900 g
Material	sheet steel, 1 mm, galvanised

Cross-references	Page	Art.No.	Name Type
	47	211160	Extension Housing GEHZ600-16

211375 Battery Hight Adjustment BHA600-1

The material set of the BHA600-1 consists of two ABS plates which compensate for the height of the door hem of the listed wall-mount cabinets. In this way, the plates allow the stand-by batteries with a capacity of 26 Ah or 45 Ah to be installed in an upright position in the housing. The two plates are to be placed on the bottom of the wall-mount cabinets.



Suitable for:

BC600-16xxx or GEH600-16

BC600-8Hxxx

GEHZ600-16 (for the battery pair that has been placed on the bottom)

Specifications:

Colour	light grey
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211164 Power Supply Carrier NTT600-1

The Power Supply Carrier NTT600-1 is made of zinc coated sheet steel and is used to easily mount a Power Supply Series NT60x in a Fire Detection Control Panel BC600-E. The power supply carrier is provided with all required mounting bolts for the mounting of the power unit, the protective conductor connection point of the power unit as well as the mounting holes of the carrier itself.

The power supply carrier can be mounted on the Module Carrier MPL600/6H or directly on the mounting plate of a switch cabinet.



Specifications:

Dimensions W × H × D	172 × 266 × 10 mm
Weight	350 g
Material	sheet steel, 1 mm, galvanised

Cross-references	Page	Art.No.	Name Type
	108	212040	Module Carrier 19"/6HU MPL600/6H

219019 Lock for BC600 SCHLOSS-BC600-1

The lock serves as replacement part for all Fire Detection Control Panels Series BC600 in the wall-mount cabinet – BC600-8xxx and BC600-16xxx – and for the wall-mount cabinets GEH600-8, GEH600-16 and GEHZ600-16. Since all SCHLOSS-BC600-1 locks are keyed alike, existing keys can still be used.



219008 Key for BC600 SCH-BC600-1

The spare key is used for opening a wall-mount cabinet or extension housing of a Fire Detection Control Panel Series BC600.



Cross-references	Page	Art.No.	Name Type
	320	249697	Bunch of Keys with various keys SB-UNIV-1

1.1.12 Country Kits

211302 Country Kit LZB-BC600/INT1

The international country kit contains all accessories that are needed for international markets and which are not included with the Fire Detection Control Panel Series BC600. These are the User Manuals Part A (Operating Instructions) and Part B (Installation - Connection - Commissioning) in English.



211300 Country Kit LZB-BC600/A1

The country kit contains all accessories that are needed for Austria and which are not included with the Fire Detection Control Panel Series BC600. These are, for example, the German User Manual Part A (Operating Instructions) and the additional labelling elements according to TRVB and ÖNORM F 3070.



211301 Country Kit LZB-BC600/D1

The country kit contains all accessories that are needed for Germany and which are not included with the Fire Detection Control Panel Series BC600. These are, for example, the German User Manual Part A (Operating Instructions) and the additional labelling elements according to DIN 14675 or DIN VDE 0833-2.



211306 Country Kit LZB-BC600-1D/INT1

The international country kit contains all accessories that are needed for international markets and which are not included with the Fire Detection Control Panel BC600-1D. These are the User Manuals Part A (Operating Instructions) and Part B (Installation - Connection - Commissioning) in English.



211304 Country Kit LZB-BC600-1D/A1

The country kit contains all accessories that are needed for Austria and which are not included with the Fire Detection Control Panel BC600-1D. These are, for example, the German User Manual Part A (Operating Instructions) and the additional labelling elements according to TRVB and ÖNORM F 3070.



211305 Country Kit LZB-BC600-1D/D1

The country kit contains all accessories that are needed for Germany and which are not included with the Fire Detection Control Panel BC600-1D. These are, for example, the German User Manual Part A (Operating Instructions) and the additional labelling elements according to DIN 14675 or DIN VDE 0833-2.



1.1.13 Licences BC600

The licences are supplied in the form of an options circuit, which must be plugged into a socket prepared for this purpose on the central processing board by the installer. If several options are required on a control panel, these are activated in the same options circuit.

218100 User Management/5 individual users-Licence BV600-5

New

The licence is needed for the administration of up to 5 individual users on a Fire Detection Control Panel Series BC600 if the user management has been activated.

The user management allows access rights to be assigned to user groups, and therefore operational possibilities can be tailored to individual users.

218101 User Management/10 individual users-Licence BV600-10**New**

The licence BV600-10 corresponds to the licence BV600-5, but it is suitable for the administration of up to 10 users.

218102 User Management/20 individual users-Licence BV600-20**New**

The licence BV600-20 corresponds to the licence BV600-5, but it is suitable for the administration of up to 20 users.

218103 User Management/30 individual users-Licence BV600-30**New**

The licence BV600-30 corresponds to the licence BV600-5, but it is suitable for the administration of up to 30 users.

218104 User Management/40 individual users-Licence BV600-40**New**

The licence BV600-40 corresponds to the licence BV600-5, but it is suitable for the administration of up to 40 users.

218105 User Management/50 individual users-Licence BV600-50**New**

The licence BV600-50 corresponds to the licence BV600-5, but it is suitable for the administration of up to 50 users.

218106 User Management/100 individual users-Licence BV600-100**New**

The licence BV600-100 corresponds to the licence BV600-5, but it is suitable for the administration of up to 100 users.

218107 User Management/250 individual users-Licence BV600-250**New**

The licence BV600-250 corresponds to the licence BV600-5, but it is suitable for the administration of up to 250 users.

218027 Extinguishing-Control 1-Area-Licence LC600-1LB

The extinguishing control panel licence is needed for the administration of 1 flooding zone in an Extinguishing Control Panel Series LC600 or in a combined Fire/Extinguishing Control Panel Series BC600. The required parameters are set by means of PARSOFT. The functions of the extinguishing control are specifically adapted to the requirements of EN 12094-1. However, due to its high flexibility, the control panel can be used for the actuation of extinguishing systems with many different extinguishing agents.

In the network, the licence is required in each sectional control panel that is used for the extinguishing control.

218028 Extinguishing-Control 4-Area-Licence LC600-4LB

The extinguishing control panel licence LC600-4LB corresponds to the licence LC600-1LB, but it is suitable for the administration of up to 4 flooding zones.

218029 Extinguishing-Control 8-Area-Licence LC600-8LB

The extinguishing control panel licence LC600-8LB corresponds to the licence LC600-1LB, but it is suitable for the administration of up to 8 flooding zones.

218030 Extinguishing-Control 16-Area-Licence LC600-16LB

The extinguishing control panel licence LC600-16LB corresponds to the licence LC600-1LB, but it is suitable for the administration of up to 16 flooding zones.

218031 Extinguishing-Control 32-Area-Licence LC600-32LB

The extinguishing control panel licence LC600-32LB corresponds to the licence LC600-1LB, but it is suitable for the administration of up to 32 flooding zones.

218032 Extinguishing-Control 64-Area-Licence LC600-64LB

The extinguishing control panel licence LC600-64LB corresponds to the licence LC600-1LB, but it is suitable for the administration of up to 64 flooding zones.

218033 Extinguishing-Control 128-Area-Licence LC600-128LB

The extinguishing control panel licence LC600-128LB corresponds to the licence LC600-1LB, but it is suitable for the administration of up to 128 flooding zones.

218060 ZLT Interface Licence BC600-ZLT

The ZLT Interface Licence is needed for the communication of Fire Detection Control Panels Series BC600 with higher operation control systems (Ethernet). By means of bi-directional communication, the higher operation control system also allows, in addition to the indication of all conditions, the operation of the zones, actuations, etc.

The ZLT Interface Licence is needed in the sectional control panel to which the operation control system is connected.

1.1.14 Interfaces BC600

223061 Gateway/IEC GW/IEC/BC600-1

The gateway is used as interface between a Fire Detection Control Panel Series BC600 and a primary control centre, according to the international interface standards IEC60870-5-101 (serial) and IEC60870-5-104 (Ethernet). For this purpose, the fire detection control panel has to be equipped with an interface componentry SIF601-3 (ZLT interface bi-directional) or SIF601-4 (ZLT interface unidirectional).

By means of the gateway, events of the fire detection control panel can be transmitted to a remote piece of equipment. Furthermore, operations can be carried out on the fire detection control panel, depending on the parameterisation of the gateway. The system-specific list of IEC data points and the assignment of the detector zones can be easily loaded into the gateway by means of ftp. The parameters can be set through the web server which is provided by the gateway.



Features:

- Transmission of the events of the fire detection control panel
- Parameterisable functions for the operation of the fire detection control panel
- RS232C interface for the data transfer to the fire detection control panel
- RS232C interface for the data transfer to the IEC60870-5-101 control centre
- Ethernet interface for the data transfer to the IEC60870-5-104 control centre
- Separate status LED indicators for each interface
- To be mounted on a DIN rail or on the wall

Specifications:

Operating voltage	from 12 VDC to 30 VDC
Current consumption typ.	170 mA (at 24 V)
Protection class	IP20
Ambient temperature	from -10 °C to 60 °C
Dimensions W × H × D	77 × 111 × 26 mm
Weight	190 g

Cross-references	Page	Art.No.	Name Type
	33	211126	Serial Interface SIF601-3/ZLT
	33	211127	Serial Interface SIF601-4/ZLT-UNI

223062 Gateway/Modbus GW/MODBUS/BC600-1

The gateway is used as interface between a Fire Detection Control Panel Series BC600 and a primary control centre, according to the international interface standard Modbus. For this purpose, the fire detection control panel has to be equipped with an interface componentry SIF601-3 (ZLT interface bi-directional) or SIF601-4 (ZLT interface unidirectional).

By means of the gateway, events of the fire detection control panel can be transmitted to a remote piece of equipment, using the Modbus protocol. Furthermore, operations can be carried out on the fire detection control panel, depending on the parameter setup of the gateway.

The system-specific list of Modbus data points and the assignment of the detector zones can be easily loaded into the gateway by means of ftp. The parameters can be set through the web server which is provided by the gateway.



Features:

- Transmission of the events of the fire detection control panel
- Parameterisable functions for the operation of the fire detection control panel
- RS232C interface for the data transfer to the fire detection control panel
- RS232C interface for the serial data transfer by means of Modbus/RTU

- Ethernet interface for the data transfer by means of Modbus/TCP
- Separate status LED indicators for each interface
- To be mounted on a DIN rail or on the wall

Specifications:

Operating voltage	from 12 VDC to 30 VDC
Current consumption typ.	170 mA (at 24 V)
Protection class	IP20
Ambient temperature	from -10 °C to 60 °C
Dimensions W × H × D	77 × 111 × 26 mm
Weight	190 g

Cross-references	Page	Art.No.	Name Type
	33	211126	Serial Interface SIF601-3/ZLT
	33	211127	Serial Interface SIF601-4/ZLT-UNI

223066 Mini PC EBOX-1

The complete Windows-based PC can be used for the operation of a(n) OPC or BACnet server if near the system no electronic data processing environment is available for this purpose. As data storage medium, the Mini PC contains a solid-state hard disk. For the connection of a monitor, there is an HDMI terminal.



Features:

- Operating system Windows 10 IoT
- Solid-state hard disk 32 GB
- HDMI terminal
- Connections: 1 × USB, 2 × RS232, 2 × LAN
- Small dimensions

Specifications:

Operating voltage	from 10 VDC to 30 VDC
Power consumption max.	20 W
Relative humidity (no condensation)	from 5 % to 85 %
Protection class	IP30
Ambient temperature	from 0 °C to 50 °C
Dimensions W × H × D	60 × 100 × 70 mm
Weight	600 g

Cross-references	Page	Art.No.	Name Type
	33	211126	Serial Interface SIF601-3/ZLT
	33	211127	Serial Interface SIF601-4/ZLT-UNI
	58	223065	Software Licence BACNET-BC600
	57	223064	Software Licence OPC-BC600

223064 Software Licence OPC-BC600

The OPC server licence allows a Fire Detection Control Panel Series BC600 to communicate with third-party manufacturers' automation technology systems, via the standardised OPC interface. As a result, the fire detection control panel can be linked, for example, to an OPC capable operation control system which serves as OPC client.

For the operation of the OPC server, a Windows PC is required. If no client PC is available near the system, a Mini PC can be installed for this purpose. The program is protected by a dongle. For virtual servers which do not use a dongle, an online licence can also be purchased.

Cross-references	Page	Art.No.	Name Type
	57	223066	Mini PC EBOX-1
	33	211126	Serial Interface SIF601-3/ZLT

223065 Software Licence BACNET-BC600

The BACnet server licence allows a Fire Detection Control Panel Series BC600 to communicate with third-party manufacturers' building automation systems, via the standardised BACnet interface. As a result, the fire detection control panel can, for example, actuate other devices such as ventilation or air conditioning systems and process their events.

For the operation of the BACnet server, a Windows PC is required. If no client PC is available near the system, a Mini PC can be installed for this purpose. The program is protected by a dongle. For virtual servers which do not use a dongle, an online licence can also be purchased.

Cross-references	Page	Art.No.	Name Type
	57	223066	Mini PC EBOX-1
	33	211126	Serial Interface SIF601-3/ZLT

1.1.15 Gateway BC600-BC216

211430 LAN-Module/GW-BC600-216 LAN/BC600-216-1

By means of the LAN module, a Fire Detection Control Panel Series BC216 can be coupled to a Fire Detection Control Panel Series BC600. For this purpose, the events of the Fire Detection Control Panel Series BC216 are converted to an IP protocol and transferred to the BC600. In the same way, operations are sent from the Fire Detection Control Panel Series BC600 to the BC216. As a result, the BC216 can be operated on the BC600 and the BC216's events can be indicated on the BC600. The range of functions of the Control Panel Series BC216 remains unchanged.



For the connection of the module to the Fire Detection Control Panel Series BC216, a Serial Interface Module SIM216-1 is required. The IP interface of the LAN module is connected directly to the IP interface of the BC600.

For the operation of the BC216/BC600 gateway an options circuit with a basic licence is required on the BC600, and for each connected BCnet216 sectional control panel, one member licence is required. By means of PARSOFT, the parameter data of the BC216 are imported into the parameter setup of the BC600 and transferred to the control panel.

Features:

- Incl. prefabricated data cable to the SIM216-1, length 1.8 m
- Incl. prefabricated supply cable, length 1.8 m

Specifications:

Operating voltage	from 21 VDC to 30 VDC
Current consumption typ.	45 mA (at 24 V)
Relative humidity (no condensation) max.	95 %
Protection class	IP30
Ambient temperature	from 5 °C to 50 °C
Dimensions L × W × H	90 × 64 × 23 mm
Weight	150 g

Cross-references	Page	Art.No.	Name Type
	59	211431	Gateway BC600-BC216 Basic Licence GW-BC600-216-BAS/LIZ
	59	211432	Gateway BC600-BC216 Member Licence GW-BC600-216-TLN/LIZ
	59	214025	Serial Interface Module SIM216-1
	59	218022	ZLT Interface Licence ZLT-SS
	55	218060	ZLT Interface Licence BC600-ZLT

211431 Gateway BC600-BC216 Basic Licence GW-BC600-216-BAS/LIZ

The basic licence is required for the connection of a Fire Detection Control Panel Series BC216 to a Fire Detection Control Panel Series BC600. In addition, a member licence is required for each BCnet216 sectional control panel. The licences are installed on the Central Processing Board ZTB600-1 in the form of an options circuit.

211432 Gateway BC600-BC216 Member Licence GW-BC600-216-TLN/LIZ

The member licence is required for the connection of a Fire Detection Control Panel Series BC216 to a Fire Detection Control Panel Series BC600. For each BCnet216 sectional control panel a member licence is required. The licences are installed on the Central Processing Board ZTB600-1 in the form of an options circuit.

214025 Serial Interface Module SIM216-1

The Serial Interface Module SIM216-1 allows for the extension of a Fire Detection Control Panel Series BC216 or Series BC016 with a galvanically isolated RS232C interface for the connection of devices with serial data transfer (e.g., protocol printer, parameterisation PC).



Specifications:

Current consumption typ.	10 mA (at 24 V)
Interface	RS232C, galvanically isolated, up to 57.6 kBaud
Connections	D-SUB plug, 9-pin
Ambient temperature	from -5 °C to 50 °C
Dimensions L × W × H	70 × 45 × 20 mm
Weight	50 g

Cross-references	Page	Art.No.	Name Type
	79	219009	USB to Serial Converter US232R-100

218022 ZLT Interface Licence ZLT-SS

The ZLT interface licence is required for the communication of Fire Detection Control Panels Series BC216 with superior operation control systems. According to requirements, the superior operation control system can display only the statuses of the fire detection control panel or additionally allow for the operation of zones, actuations, etc. The ZLT interface licence is required in the sectional control panel that is connected to the operation control system.

Note: The ZLT interface can only be operated on a Central Processing Board ZTB216-2 with at least hardware version V4. The type of the componentry is printed on a label. The version number is the last digit of the PCB version, which is printed in the lower left corner of the printed circuit board (e.g., PN5233S4 for V4).

1.2 Series BC08

The compact control panel Series BC08 is available in several versions: as fire detection control panel for small fire detection systems or fire alarm systems, as pure extinguishing control panel for extinguishing systems with one flooding zone, or as combined fire/extinguishing control panel. The basic version already includes all functional units that are needed for the operation.

By selecting one of several typical factory settings, the commissioning of the control panel can be carried out in a particularly easy and time-saving way, even without using a PC. At the same time, the control panel offers a high level of flexibility and many upgrade options. The numerous integrated functions, a compact construction and the pleasing design allow versatile use of the product.

210130 Fire Detection Control Panel BC08-4S

New

The compact Fire Detection Control Panel BC08 has been designed for use in small fire detection systems. Proven conventional technology allows the connection of automatic fire detectors, manual call points and contact detectors.

The easy commissioning allows you to optimally adapt the control panel to your individual requirements in a time-saving way. Here one of several practical standard configurations can be chosen on the control panel. An individual parameter setup is created by means of the PC software PARSOFT. The Fire Detection Control Panel BC08-4S comprises a wall-mount cabinet, the power unit with an output current of 2.2 A as well as the central processing board with display and operating field. The control panel has two line-monitored outputs with 300 mA output current each, as well as two relay outputs. The cabinet can accommodate stand-by batteries with 2 × 12 V / max. 7 Ah. On the operating field there are 6 buttons for direct operation of detector zones or other system parts.



Features:

- Use in small fire detection systems
- 4 detector lines in conventional technology
- CPR-certified according to EN 54-2 and EN 54-4
- Space for stand-by batteries with 2 × 12 V / max. 7 Ah
- Direct operation with freely parameterisable buttons
- Easy commissioning through selectable standard configurations – even without PC

Specifications:

Mains voltage	230 VAC +10/-15%, 47 - 63 Hz
Current consumption at 24 V	85 mA
Output current power supply	2.2 A
Output current siren outputs	300 mA
Output voltage typ.	27.6 VDC
Relative humidity (no condensation) max.	95 %
Protection class	IP30
Ambient temperature	from -5 °C to 40 °C
Dimensions W × H × D	380 × 340 × 94 mm
Casing material	sheet steel, 1 mm, powder coated
RAL colour	grey white, RAL 9002
Weight (without batteries)	4.9 kg
Approval number CPR	0786-CPR-21830

Cross-references	Page	Art.No.	Name Type
	65	250080	Remote Tableau SG08-1
	65	210190	Relay Module RL04-1
	75	222004	Relay Module RL58-1
	75	222010	Relay Module RL58-2
	21	211143	Relay Module RL608-1
	76	223026	Siren Connection Module SZ58-3

210131 Fire Detection Control Panel BC08-8S

New

The functions and features of the Fire Detection Control Panel BC08-8S correspond to those of the Control Panel BC08-4S, but it has 8 detector lines in conventional technology. On the operating field there are 10 buttons for direct operation of detector zones or other system parts.

Features:

- Use in small fire detection systems
- 8 detector lines in conventional technology
- CPR-certified according to EN 54-2 and EN 54-4
- Space for stand-by batteries with 2 × 12 V / max. 7 Ah

Specifications:

Current consumption at 24 V	85 mA
Output current power supply	2.2 A
Dimensions W × H × D	380 × 340 × 94 mm
Weight (without batteries)	4.9 kg
Approval number CPR	0786-CPR-21830



210134 Fire Detection Control Panel BC08-8S-PLUS

New

The compact Fire Detection Control Panel BC08 has been designed for use in small fire detection systems. Proven conventional technology allows the connection of automatic fire detectors, manual call points and contact detectors.

The easy commissioning allows you to optimally adapt the control panel to your individual requirements in a time-saving way. Here one of several practical standard configurations can be chosen on the control panel. An individual parameter setup is created by means of the PC software PARSOFT. The Fire Detection Control Panel BC08-8S-PLUS comprises a wall-mount cabinet, the power unit with an output current of 2.2 A as well as the central processing board with display and operating field. The control panel has two line-monitored outputs with 1 A output current each, two line-monitored outputs with 300 mA output current each, as well as three relay outputs. The cabinet can accommodate stand-by batteries with 2 × 12 V / max. 7 Ah. On the operating field there are 11 buttons for direct operation of detector zones or other system parts.

The optional remote access system REACT allows event indication and operation on a mobile phone, tablet or PC via the Internet.

Features:

- Use in small fire detection systems
- 8 detector lines in conventional technology
- Optional remote access with the REACT APP
- VdS-approved and CPR-certified according to EN 54-2 and EN 54-4
- Space for stand-by batteries with 2 × 12 V / max. 7 Ah
- Direct operation with freely parameterisable buttons
- Easy commissioning through selectable standard configurations – even without PC

Specifications:

Mains voltage	230 VAC +10/-15%, 47 - 63 Hz
Current consumption at 24 V	85 mA
Output current power supply	2.2 A
Output current siren outputs	1 A
Output voltage typ.	27.6 VDC
Relative humidity (no condensation) max.	95 %
Protection class	IP30
Ambient temperature	from -5 °C to 40 °C



Dimensions W × H × D	380 × 340 × 94 mm
Casing material	sheet steel, 1 mm, powder coated
RAL colour	grey white, RAL 9002
Weight (without batteries)	4.9 kg
Approval number CPR	0786-CPR-21830
Approval number VdS	G 223087

Cross-references	Page	Art.No.	Name Type
	65	250080	Remote Tableau SG08-1
	65	210190	Relay Module RL04-1
	75	222004	Relay Module RL58-1
	75	222010	Relay Module RL58-2
	21	211143	Relay Module RL608-1
	76	223026	Siren Connection Module SZ58-3
	22	229014	Voltage Stabilizer 24VDC STAB24-3

210135 Fire Detection Control Panel BC08-8L-PLUS

New

As regards functions and features, the Fire Detection Control Panel BC08-8L-PLUS is identical to the Control Panel BC08-8S-PLUS. However, the larger wall-mount cabinet can accommodate stand-by batteries with 2 × 12 V / max. 22 Ah.

Features:

- Use in small fire detection systems
- 8 detector lines in conventional technology
- Optional remote access with the REACT APP
- VdS-approved and CPR-certified according to EN 54-2 and EN 54-4
- Space for stand-by batteries with 2 × 12 V / max. 22 Ah



Specifications:

Current consumption at 24 V	85 mA
Output current power supply	2.2 A
Dimensions W × H × D	384 × 425 × 106 mm
Weight (without batteries)	5.3 kg
Approval number CPR	0786-CPR-21830
Approval number VdS	G 223087

210132 Fire/Extinguishing Control Panel BC08-8S-EXT

New

The compact Fire/Extinguishing Control Panel BC08 has been designed for use in single-zone extinguishing systems. Proven conventional technology allows the connection of automatic fire detectors, manual call points and contact detectors.

The easy commissioning allows you to optimally adapt the control panel to your individual requirements in a time-saving way. Here one of several practical standard configurations can be chosen on the control panel. An individual parameter setup is created by means of the PC software PARSOFT. The combined Fire/Extinguishing Control Panel BC08-8S-EXT comprises a wall-mount cabinet, the power unit with an output current of 2.2 A as well as the central processing board with display and operating field. The control panel has one line-monitored output with an output current of 1 A, three line-monitored outputs with 300 mA output current each, as well as three relay outputs. The cabinet can accommodate stand-by batteries with 2 × 12 V / max. 7 Ah. On the operating field there are 8 buttons for direct operation of detector zones or other system parts.



Features:

- Use in small fire detection systems and extinguishing systems with one flooding zone
- 8 detector lines in conventional technology

- CPR-certified according to EN 54-2, EN 54-4 and EN 12094-1
- Space for stand-by batteries with 2 × 12 V / max. 7 Ah
- Direct operation with freely parameterisable buttons
- Easy commissioning through selectable standard configurations – even without PC

Specifications:

Mains voltage	230 VAC +10/-15%, 47 - 63 Hz
Current consumption at 24 V	85 mA
Output current power supply	2.2 A
Output current siren outputs	1 A
Output voltage typ.	27.6 VDC
Relative humidity (no condensation) max.	95 %
Protection class	IP30
Ambient temperature	from -5 °C to 40 °C
Dimensions W × H × D	380 × 340 × 94 mm
Casing material	sheet steel, 1 mm, powder coated
RAL colour	grey white, RAL 9002
Weight (without batteries)	4.9 kg
Approval number CPR	0786-CPR-21830

Cross-references	Page	Art.No.	Name Type
	65	250080	Remote Tableau SG08-1
	65	210190	Relay Module RL04-1
	75	222004	Relay Module RL58-1
	75	222010	Relay Module RL58-2
	21	211143	Relay Module RL608-1
	76	223026	Siren Connection Module SZ58-3

210133 Fire/Extinguishing Control Panel BC08-8L-EXT

New

As regards functions and features, the Fire/Extinguishing Control Panel BC08-8L-EXT is identical to the Control Panel BC08-8S-EXT. However, the larger wall-mount cabinet can accommodate stand-by batteries with 2 × 12 V / max. 22 Ah.

Features:

- Use in small fire detection systems and extinguishing systems with one flooding zone
- 8 detector lines in conventional technology
- CPR-certified according to EN 54-2, EN 54-4 and EN 12094-1
- Space for stand-by batteries with 2 × 12 V / max. 22 Ah



Specifications:

Current consumption at 24 V	85 mA
Output current power supply	2.2 A
Dimensions W × H × D	384 × 425 × 106 mm
Weight (without batteries)	5.3 kg
Approval number CPR	0786-CPR-21830

210136 Fire/Extinguishing Control Panel BC08-8L-EXT-PLUS

New

The compact Fire/Extinguishing Control Panel BC08 has been designed for use in single-zone extinguishing systems. Proven conventional technology allows the connection of automatic fire detectors, manual call points and contact detectors.

The easy commissioning allows you to optimally adapt the control panel to your individual requirements in a time-saving way. Here one of several practical standard configurations can be chosen on the control panel. An individual parameter setup is created by means of the PC software PARSOFT. The combined Fire/Extinguishing Control Panel BC08-8L-EXT-PLUS comprises a wall-mount cabinet, the power unit with an output current of 2.2 A as well as the central processing board with display and operating field. The control panel has two line-monitored outputs with an output current of 1 A, two line-monitored outputs with 300 mA output current each, as well as three relay outputs. The cabinet can accommodate stand-by batteries with 2 × 12 V / max. 22 Ah. On the operating field there are 12 buttons for direct operation of detector zones or other system parts.

The optional remote access system REACT allows event indication and operation on a mobile phone, tablet or PC via the Internet.



Features:

- Use in small fire detection systems and extinguishing systems with one flooding zone
- 8 detector lines in conventional technology
- Optional remote access with the REACT APP
- VdS-approved and CPR-certified according to EN 54-2, EN 54-4 and EN 12094-1
- Space for stand-by batteries with 2 × 12 V / max. 22 Ah
- Direct operation with freely parameterisable buttons
- Easy commissioning through selectable standard configurations – even without PC

Specifications:

Mains voltage	230 VAC +10/-15%, 47 - 63 Hz
Current consumption at 24 V	85 mA
Output current power supply	2.2 A
Output current siren outputs	1 A
Output voltage typ.	27.6 VDC
Relative humidity (no condensation) max.	95 %
Protection class	IP30
Ambient temperature	from -5 °C to 40 °C
Dimensions W × H × D	384 × 425 × 106 mm
Casing material	sheet steel, 1 mm, powder coated
RAL colour	grey white, RAL 9002
Weight (without batteries)	5.3 kg
Approval number CPR	0786-CPR-21830
Approval number VdS	G 223085 (EXT) G 223086 (EST)

Cross-references	Page	Art.No.	Name Type
	65	250080	Remote Tableau SG08-1
	65	210190	Relay Module RL04-1
	75	222004	Relay Module RL58-1
	75	222010	Relay Module RL58-2
	21	211143	Relay Module RL608-1
	76	223026	Siren Connection Module SZ58-3
	22	229014	Voltage Stabilizer 24VDC STAB24-3

250080 Remote Tableau SG08-1

New

By means of the Remote Tableau SG08, which is situated at one or more locations that are distant from the Control Panel Series BC08, the events of a fire detection system or the operating conditions of a control panel can be indicated, and the most important operations can be carried out. The events are indicated like on the Control Panel Series BC08, as text on a backlit four-line liquid crystal display as well as by means of corresponding single displays (light emitting diodes).



The operation of the control panel, which can be carried out on the Remote Tableau SG08 (e.g., silencing the buzzer of the control panel, enabling or disabling the alarm delay), in two authorization levels, corresponds as far as possible to the operations on the Control Panels Series BC08, so that the user can familiarise himself or herself very quickly with the functions of the remote tableau. The remote tableau allows connection of up to three external contacts in addition to the two key switches that can be used on the front panel of the remote tableau.

For the connection to the Control Panel Series BC08, the Signal bus is used. Up to 6 Remote Tableaus SG08 can be connected to a control panel. The power supply lines of the Remote Tableau SG08 can be implemented without feedback.

Features:

- Clear remote tableau for Fire Detection Control Panels Series BC08
- Indication of the events and operating conditions of a fire detection system
- Remote operation of important system functions
- 3 freely parameterisable inputs
- 2 optional key switches
- Integrated extinguishing keys

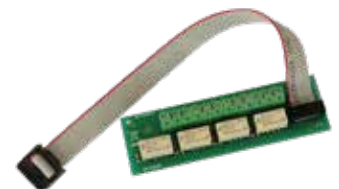
Specifications:

Operating voltage	from 12 VDC to 30 VDC
Current consumption typ.	25 mA (at 24 V, quiescent condition)
Current consumption max.	100 mA (at 24 V, fault condition of the three inputs)
Relative humidity (no condensation) max.	95 %
Protection class	IP30
Ambient temperature	from -5 °C to 40 °C
Dimensions W × H × D	250 × 174 × 30 mm
Weight	0.45 kg
Casing material	sheet steel, 1 mm, powder coated
RAL colour	grey white, RAL 9002

210190 Relay Module RL04-1

New

The Relay Module RL04-1 is used in a Fire Detection Control Panel Series BC08 for the switching of external devices as well as for transmitting control commands or system information. The componentry is provided with four independent switching relays. Every relay output has a galvanically isolated change-over contact which is routed to terminals.



Specifications:

Contact rating	2 A / 30 VDC or 0.5 A / 125 VAC
Connections	screw terminals
Wire cross-section max.	1.5 mm ²
Dimensions L × W × H	90 × 25 × 12 mm
Weight	45 g

229658 Sealing Kit IP54 BC08-L-DS**New**

The Sealing Kit BC08-L-DS is designed to increase the protection class of fire/extinguishing control panels in the housing version BC08-8L-xxx by sealing the door of the housing from the wall part as well as from the wall. A 1650 × 10 × 6 mm flat cellular rubber strip that comes as a roll, has to be cut to the required length and stuck to the rear panel of the housing in such a way that it is tightly sealed at the corners.

Specifications:

Colour black

**210191 Key Switch Set Complete SCH12-2****New**

The Key Switch SCH12-2 can be optionally installed in a Fire Detection Control Panel Series BC08 if the authorization for operation is to be enabled by means of a key. Depending on the control panel version, up to three key switches can be integrated into the front. The actual function of the switch is set with the Parameter Setup Software PARSOFIT. The key switch can also be installed later.

Specifications:

Contact type 1 normally open contact
Contact rating max. 0.1 A / 60 V



1.3 Display and Operating Devices

250070 Remote Tableau SG70-2

The Remote Tableau SG70-2 is designed for the indication of the events and operating conditions of Fire Detection Control Panels Series BC600, Series BC216 and Series BC016 at a remote site. Light emitting diodes indicate the most important operating conditions of the control panel. On the integrated 4-line LC display, events of the fire detection control panel are indicated as clear text and can be called up one after the other by means of the scroll buttons. In addition, alarms and faults are signalled by the integrated buzzer.

The fields ‚TRANSMITTING DEVICE‘ and ‚ALARMING DEVICE‘ are structured in the same way as the corresponding fields of the fire detection control panel. They are used for the remote indication and operation of the primary transmitting device and of the alarming device.

By means of the Parameter Setup Software PARSOFT, filters can be set in order to limit the indication of events. In this way, certain types of events (e.g., technical messages, faults) can be suppressed, or number ranges for the read-out can be determined. In this manner, area tableaus for floors or buildings can be implemented easily.

The Remote Tableau SG70-2 can be connected to a Fire Detection Control Panel Series BC600 via the INFO bus, the advanced INFO bus EP or – after installation of a Serial Interface SIF622-1 – via the powerful Signal bus. The SG70-2 can be connected to a Fire Detection Control Panel Series BC216 or BC016 via the INFO bus. In a Fire Detection Control Panel BC016, a Serial Interface Module SIM016-3 is required for this purpose.



Features:

- 4-line LC display indicates events with clear text
- LED displays for important operating conditions
- ‚TRANSMITTING DEVICE‘ and ‚ALARMING DEVICE‘ fields analogous to those on the control panel
- Integrated buzzer with silence function
- Multilingual operation menu
- USB interface for parameterisation and firmware update
- LED and LCD test function
- 2 auxiliary inputs and reserve button with parameterisable function
- Lettering of the display and operating elements by means of labelling strips
- Sheet steel housing for wall mounting
- Optionally, key switch for enabling the menu operation can be installed later

Specifications:

Operating voltage	from 15 VDC to 31 VDC
Current consumption typ.	20 mA (at 24 V, display and LEDs dark)
Current consumption max.	90 mA (at 24 V, display test)
Baudrate INFO bus	600 Baud 1200 Baud 2400 Baud 4800 Baud
Baudrate INFO bus EP	1200 Baud 2400 Baud 4800 Baud 9600 Baud 14400 Baud
Baudrate Signal bus	19200 Baud 38400 Baud 57600 Baud 115200 Baud
Connections	USB socket type B
Relative humidity (no condensation) max.	95 %
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C

Dimensions W × H × D	174 × 250 × 28,5 mm
Weight	1.2 kg
RAL colour	grey white, RAL 9002

Cross-references	Page	Art.No.	Name Type
	34	211156	Serial Interface SIF622-1
	44	250021	Key Switch Set Complete SCH70-1

250021 Key Switch Set Complete SCH70-1

The Key Switch SCH70-1 can be optionally installed in a Fire Detection Control Panel BC600-8xxx, BC600-16xxx or BC600-1D, in the Remote Display And Operation Panel ABF600-1, or in the Remote Tableau SG70-1, if the authorization for the operation is to be enabled by means of a key. The key switch can also be installed later.



251003 Remote Indicator PA58-3

The Remote Indicator PA58-3 is designed for the remote display of the alarm activation of a fire detector if the status LED on the detector is not visible (false floors, false ceilings, etc.) or if the indicator is placed at a remote site. Depending on the connection, the remote indicator can display the activation of a single detector, or several detectors can be combined for a common display.



Features:

- Bright LED
- Up to 3 indicators can be connected to one detector
- Supply via detector line
- Plastic case with red cap
- Surface mounting or flush mounting on 55/60 mm installation box

Specifications:

Operating voltage	supplied through the detector line or loop voltage
Current consumption max.	5 mA
Protection class	IP42
Ambient temperature	from -30 °C to 70 °C
Dimensions W × H × D	80 × 80 × 27 mm
Weight	42 g
Colour	white

251004 Remote Indicator PA58-3/IP65

The Remote Indicator PA58-3/IP65 is designed for the remote display of the alarm activation of a fire detector if the status LED on the detector is not visible (false floors, false ceilings, etc.) or if the indicator is placed at a remote site. Depending on the connection, the remote indicator can display the activation of a single detector, or several detectors can be combined for a common display.

Thanks to the sealed housing with protection class IP65, the remote indicator is also suitable for outdoor use or for harsh environmental conditions.



Features:

- High-power LED
- Connection of up to 3 indicators to one detector
- Supply via detector line

- Remote indicator with red lens
- Plastic housing with transparent cover
- Cable gland M20 included in the delivery

Specifications:

Operating voltage	supplied through the detector line or loop voltage
Current consumption max.	5 mA
Protection class	IP65
Ambient temperature	from -30 °C to 70 °C
Dimensions W × H × D	105 × 105 × 66 mm
Weight	290 g
Colour	light grey transparent

252010 LED Display Tableau LAT288-1

The LED Display Tableau LAT288-1 allows you to design a display for the optical signalling of events of a Fire Detection Control Panel Series BC600, Series BC216 or Series BC016 and of an extinguishing control panel by means of freely parameterisable LED pairs. The tableau consists of a wall-mount case made of powder-coated steel sheet, into which up to three LED Display Fields LAB48 and the Remote Tableau Drive Unit PTU288-2 can be installed.

The whole area of the front side of the case is sealed with a light grey plastic foil (RAL 7035), which has six windows integrated for labelling of the LED pairs of the LED display fields. In addition to the LED display fields, the case can accommodate further optional componentries (e.g., relay modules) and up to two stand-by batteries with 12 V/max. 22 Ah each (at the bottom of the case).



Specifications:

Protection class	IP30
Dimensions W × H × D	420 × 520 × 120 mm
Weight without components	6.2 kg
RAL colour	grey white, RAL 9002

Cross-references	Page	Art.No.	Name Type
	70	214024	LED Display Field LAB48-1
	70	214030	LED Display Field LAB48-2
	70	214032	LED Display Field LAB48-3
	71	214036	LED Display Field LAB48-4

252011 LED Display Tableau LAT288-1CE

The LED Display Tableau LAT288-1CE allows you to design a display for the optical signalling of events of a Fire Detection Control Panel Series BC600, Series BC216 or Series BC016 and of an Extinguishing Control Panel Series LC216 by means of freely parameterisable LED pairs. The tableau consists of a 19" rack-mount case made of powder-coated steel sheet, providing space for the installation of up to three LED Display Fields LAB48 and the Remote Tableau Drive Unit PTU288-2.

The whole area of the front side is sealed with a light grey plastic front foil (RAL 7035), which has six windows integrated for labelling of the LED pairs of the LED display fields.



Specifications:

Dimensions W × H × D	478 × 266 × 55 mm
Height units	6
Weight without components	1.6 kg
RAL colour	grey white, RAL 9002

Cross-references	Page	Art.No.	Name Type
	70	214024	LED Display Field LAB48-1
	70	214030	LED Display Field LAB48-2
	70	214032	LED Display Field LAB48-3
	71	214036	LED Display Field LAB48-4

214024 LED Display Field LAB48-1

The LED Display Field LAB48-1 contains 48 freely parameterisable LED pairs (red/yellow) for the individual indication of events of the detector zones, actuations, transmitting devices or alarming devices at Fire Detection Control Panels Series BC216 and of events of the flooding zones and extinguishing systems at the Extinguishing Control Panel Series LC216. The LED pairs are arranged in two rows, each with 24 pairs.



In addition, the LED display field can be installed into an LED Display Tableau LAT288, which is used as a freely parameterisable display for the events of a Fire Detection Control Panel Series BC600, Series BC216, Series BC016 or an Extinguishing Control Panel Series LC216.

Features:

- 48 LED pairs (left hand side red, right hand side yellow)
- Indication of the activation as well as the disablement or fault condition of the parameterised event
- Designation labels allow every LED pair to be individually marked

Specifications:

Current consumption typ.	2 mA at 24 V (without active LED)
Current consumption	0.25 mA per active LED
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	176 × 120 × 15 mm
Weight	60 g

214030 LED Display Field LAB48-2

The LED Display Field LAB48-2 is identical with the LED Display Field LAB48-1, it contains 48 freely parameterisable LED pairs (illuminating yellow/yellow).



Features:

- 48 LED pairs (left and right hand side yellow)

Specifications:

Current consumption typ.	2 mA at 24 V (without active LED)
Dimensions L × W × H	176 × 120 × 15 mm
Weight	60 g

214032 LED Display Field LAB48-3

The LED Display Field LAB48-3 is identical with the LED Display Field LAB48-1, it contains 48 freely parameterisable LED pairs (24 pairs red/yellow, 24 pairs yellow/yellow).



Features:

- 24 LED pairs (left hand side red, right hand side yellow)
- 24 LED pairs (illuminating yellow)

Specifications:

Current consumption typ.	2 mA at 24 V (without active LED)
Dimensions L × W × H	176 × 120 × 15 mm
Weight	60 g

214036 LED Display Field LAB48-4

The LED Display Field LAB48-4 is identical with the LED Display Field LAB48-1, it contains 48 freely parameterisable LED pairs (24 pairs red/yellow, 24 pairs green/yellow).



Features:

- 24 LED pairs (left hand side red, right hand side yellow)
- 24 LED pairs (left hand side green, right hand side yellow)

Specifications:

Current consumption typ.	2 mA at 24 V (without active LED)
Dimensions L × W × H	176 × 120 × 15 mm
Weight	60 g

252020 Remote Tableau Drive Unit PTU288-2

The Remote Tableau Drive Unit PTU288-2 allows optical signalling of events of a Fire Detection Control Panel Series BC600, Series BC216 or Series BC016 and of an Extinguishing Control Panel Series LC600 or LC216 on an LED display tableau or on a synoptic remote tableau. Furthermore, an integrated buzzer signals the alarm condition and fault condition of the control panel.



Up to three LED Display Fields LAB48 or LED Connection Modules LAM48-1 can be connected to the remote tableau drive unit. A remote tableau with up to 144 freely parameterisable LEDs can be created in combination with an optional LED Display Tableau LAT288-1 or LAT288-1CE. To construct synoptic remote tableaus, the PTU288-2 can be installed, in combination with LED connection modules, in any housing. For this purpose, the componentry is prepared for mounting in the LST standard grid and comes with the required mounting material. The remote tableau drive unit can be connected to a Fire Detection Control Panel Series BC600 via the INFO bus, the advanced INFO bus EP or – after installation of a Serial Interface SIF622-1 – via the powerful Signal bus. The PTU288-2 can be connected to a Fire Detection Control Panel Series BC216 or Series BC016 via the INFO bus. In a Fire Detection Control Panel Series BC016, a Serial Interface Module SIM016-3 is required for this purpose.

Features:

- 5 freely parameterisable inputs for control functions
- Up to three LED Display Fields LAB48 or LED Connection Modules LAM48-1 can be connected in any combination
- LEDs can be used to indicate the conditions of detectors, detector zones, actuations, actuation elements, alarming devices, transmitting devices, extinguishing systems or flooding zones, and the most important system conditions of the fire detection control panel (e.g., common alarm, fault or disablement condition), depending on the parameter setup.
- Individual or summary display of events from detectors, detector zones, actuations, actuation elements, alarming devices and transmitting devices, depending on the parameter setup
- USB interface for parameterisation using the Parameter Setup Software PARSOFT (PARSOFT version V1.21 or higher is required for parameterisation of the PTU288-2)
- Baud rate and bus address can be freely set

Specifications:

Operating voltage	from 15 VDC to 31 VDC
Current consumption typ.	15 mA (at 24 V, without LED componentries)
Baudrate INFO bus	600 Baud 1200 Baud 2400 Baud 4800 Baud

Baudrate INFO bus EP	1200 Baud 2400 Baud 4800 Baud 9600 Baud 14400 Baud
Baudrate Signal bus	19200 Baud 38400 Baud 57600 Baud 115200 Baud
Connections	USB socket type B
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	150 × 75 × 20 mm
Weight	76 g

Cross-references	Page	Art.No.	Name Type
	34	211156	Serial Interface SIF622-1
	70	214024	LED Display Field LAB48-1
	70	214030	LED Display Field LAB48-2
	70	214032	LED Display Field LAB48-3
	71	214036	LED Display Field LAB48-4
	69	252010	LED Display Tableau LAT288-1
	69	252011	LED Display Tableau LAT288-1CE
	72	252013	LED Connection Module LAM48-1

252013 LED Connection Module LAM48-1

The LED Connection Module LAM48-1 is connected to the Remote Tableau Drive Unit PTU288-1 and indicates events from a Fire Detection Control Panel Series BC600, Series BC216 or Series BC016 or from an Extinguishing Control Panel Series LC216 via 48 LED indicators or relay outputs. Therefore the LED connection module is ideal for the construction of synoptic remote tableaus.



Each of the 48 outputs can be used for actuation of one light emitting diode or of one relay output of a Relay Module RL58-1 or RL58-2. The signals are available at a pin strip header, which is prepared for the connection of pre-assembled LED cables. The first 16 outputs are available, in addition, at two 10-pin flat cable connectors, each for the direct connection of one Relay Module RL58-1 or RL58-2 via a flat cable. If more than 16 relay outputs are required, further actuation inputs of additional relay modules can be connected to the LED connection module via suitable connection cables.

The module is prepared for mounting in the LST standard grid and comes with the required mounting material.

Specifications:

Operating voltage	from 15 VDC to 31 VDC
Current consumption typ.	3 mA (at 24 V, quiescent)
Current consumption max.	80 mA (at 24 V, lamp test, 48 LEDs connected)
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	135 × 75 × 15 mm
Weight	62 g

Cross-references	Page	Art.No.	Name Type
	75	222004	Relay Module RL58-1
	75	222010	Relay Module RL58-2

259007 LED Assembled Green/10pcs. LED-GN/10

New

The assembled light emitting diodes are used for simple and time-saving wiring and mounting of green LED indicators on a synoptic remote tableau. The packing unit contains 10 LEDs with an assembled connection cable.

Features:

- On one end, each cable has attached a bright green 5 mm LED indicator, and on the other end a 2-pin connector, which fits the 2.54 mm grid of the pin strip headers on the LED Connection Module LAM48-1
- For each LED indicator, a black plastic LED clip is provided which allows time-saving installation of the LED
- No soldering required



Specifications:

Operating voltage	supplied via LED Connection Module LAM48-1
Cable length	2 m
Drilling diameter	6.5 mm

Cross-references	Page	Art.No.	Name Type
	72	252013	LED Connection Module LAM48-1

259014 LED Assembled Red/10pcs. LED-RT/10

New

As regards the function and cross-references, the assembled red light emitting diodes are identical to the light emitting diodes LED-GN/10.



259008 LED Assembled Yellow/10pcs. LED-GE/10

New

As regards the function and cross-references, the assembled yellow light emitting diodes are identical to the light emitting diodes LED-GN/10.



259009 Cord 2 Wire for LED Connection/10pcs. LED-LEITUNG/10

New

The two-pin connection cable connects light emitting diodes or relays to the LED Connection Module LAM48-1. The cable is required unless the LEDs that have been assembled for this purpose are used, or if more than two Relay Modules RL58-1 or RL58-2 (which can be directly connected to the LED connection module via flat cables) are to be actuated. In this case, the cable connects two additional actuation inputs of a further Relay Module RL58-1 or RL58-2.

One side of the cable has a connector assembled, fitting on the pin strip header of the LED Connection Module LAM48-1, the other side has flying leads. The packing unit contains 10 cables.



Specifications:

Cable length 2 m

Cross-references	Page	Art.No.	Name Type
	75	222004	Relay Module RL58-1
	75	222010	Relay Module RL58-2
	72	252013	LED Connection Module LAM48-1

1.4 Additional Modules for Fire Detection Control Panels

222004 Relay Module RL58-1

The Relay Module RL58-1 is designed for the switching of loads via eight dry change-over contacts, which can be triggered separately. The componentry can be installed in Fire Detection Control Panels Series BC600, Series BC216, Series BC016, Series BC08 and Series BC06.



Features:

- Eight independent relays with one dry change-over contact each
- Switch contacts galvanically isolated and routed to terminals
- Separate LED display for each relay
- Connection of trigger inputs via terminals or flat cable (included in the delivery)

Specifications:

Operating voltage	from 20 VDC to 31 VDC
Current consumption typ.	22 mA (at 24 V, per activated relay)
Contact rating	1 A / 60 V / 30 W
Ambient temperature	from -5 °C to 50 °C
Dimensions L × W × H	98 × 74 × 37 mm
Weight	130 g

Cross-references	Page	Art.No.	Name Type
	78	229008	Flat Cable 1700mm/10-Pole FBK17-1
	78	229012	Flat Cable 650mm/10-Pole FBK6-1

222010 Relay Module RL58-2

The Relay Module RL58-2 is designed for the switching of loads with increased power demand via four dry change-over contacts, which can be triggered separately. The four relays are suitable for switching mains voltage. The componentry can be installed in Fire Detection Control Panels Series BC600, Series BC216, Series BC016, Series BC08 and Series BC06.



Features:

- Four independent relays with one dry change-over contact each
- Change-over contact galvanically isolated and routed to terminals
- Separate LED display for each relay
- Connection of trigger inputs via terminals or flat cable (included in the delivery)

Specifications:

Operating voltage	from 20 VDC to 31 VDC
Current consumption typ.	22 mA (at 24 V, per activated relay)
Contact rating	3 A / 30 VDC or 5 A / 230 VAC
Ambient temperature	from -5 °C to 50 °C
Dimensions L × W × H	98 × 74 × 28 mm
Weight	120 g

Cross-references	Page	Art.No.	Name Type
	76	222007	Terminal Adapter Module SUB58-2
	78	229008	Flat Cable 1700mm/10-Pole FBK17-1
	78	229012	Flat Cable 650mm/10-Pole FBK6-1

222007 Terminal Adapter Module SUB58-2

The componentry is designed for the easy conversion of two 10-pole flat cable connectors to screw terminals. The cabling of two times 8 open-collector outputs as well as the triggering of relay modules of type RL58-1 and RL58-2 in this way can be realised flexibly and according to the individual requirements.



Specifications:

Connections	two 10-pole flat cable connectors 16 screw terminals
Ambient temperature	from -5 °C to 50 °C
Dimensions L × W × H	85 × 30 × 20 mm
Weight	100 g

Cross-references	Page	Art.No.	Name Type
	75	222004	Relay Module RL58-1

211143 Relay Module RL608-1

The Relay Module RL608-1 is designed for the switching of loads via eight dry contacts, which can be actuated independently of each other. The componentry is primarily intended for installation in Fire Detection Control Panels Series BC600. It is attached to the backplane of the control panel, but it is not connected to the system bus.



After breaking off the section of the printed circuit board that is not equipped with components, the relay module can also be used in Fire Detection Control Panels Series BC216, Series BC016, Series BC08 and Series BC06.

Features:

- Eight independent relays with one dry contact each
- By means of jumpers, each contact can be individually set as normally open contact, as normally closed contact or as normally open contact with signalling resistors for the VdS extinguishing system interface
- Galvanically isolated relay contacts routed to pluggable screw terminals
- LED displays activation of each relay
- Connection of trigger inputs via flat cable (included in the delivery)

Specifications:

Operating voltage	from 20 VDC to 30 VDC
Current consumption typ.	22 mA (per activated circuit)
Contact rating	1 A / 60 V / 30 W
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	160 × 65 × 35 mm
Dimensions L × W × H	104 × 65 × 35 mm (after breaking off the printed circuit board)
Weight	105 g

Cross-references	Page	Art.No.	Name Type
	78	229008	Flat Cable 1700mm/10-Pole FBK17-1

223026 Siren Connection Module SZ58-3

The siren connection module is used to add four siren circuits, each of them for connection of several signalling devices (e.g., sirens, strobes), to Fire Detection Control Panels Series BC600, Series BC216, Series BC016, Series BC08 and BC06. All four siren circuits have separately actuatable, individually fused and line-monitored outputs. In addition, each siren circuit has a separate fault detection output. The signalling devices can be powered either directly by the fire detection control panel or, at increased current



demand, by an external power supply.

Features:

- Four individually fused and line-monitored siren circuits
- Display elements for indication of ‚active‘ and ‚fault,‘ separate for each siren circuit
- Separate fault detection output for each siren circuit, for direct confirmation to a conventional detector zone, a control input on the central processing board or an input on the fire brigade interface
- Activation via external switches or open-collector outputs of the fire detection control panel, connection either through terminals or flat cable (included in the delivery)
- Monitoring of the supply voltage of the siren circuits
- Monitoring of signalling device lines through negative monitoring voltage – thereby, the activation of signalling devices by the monitoring quiescent current is avoided

Specifications:

Operating voltage	from 21 VDC to 30 VDC
Supply voltage (siren circuits)	from 21 VDC to 30 VDC
Current consumption typ.	15 mA (at 24 V, quiescent)
Output current max. (per siren circuit)	500 mA
Ambient temperature	from -5 °C to 50 °C
Dimensions L × W × H	98 × 74 × 18 mm
Weight	60 g

Cross-references	Page	Art.No.	Name Type
	78	229008	Flat Cable 1700mm/10-Pole FBK17-1
	78	229012	Flat Cable 650mm/10-Pole FBK6-1

222013 Detector Reset Module MQZ1000-1

The detector reset module is needed for the connection of special detectors with separate power supply (e.g., RF interfaces, smoke aspiration systems, beam smoke detectors) to detector lines in conventional technology. The componentry allows resetting an activated special detector by resetting the corresponding detector zone at the fire detection control panel. Depending on the connection, both detectors with integrated reset input and detectors, which are reset by disconnecting the power supply, are reset.



Features:

- Integrated control logic for the detector line signal
- Protection circuit for supply voltage
- LED display for signalling the activation

Specifications:

Operating voltage	from 20 VDC to 31 VDC
Current consumption typ.	1 mA (at 24 V, quiescent)
Current consumption max.	20 mA (active)
Contact rating (relay)	1 A / 60 V / 30 W
Ambient temperature	from -5 °C to 50 °C
Dimensions L × W × H	70 × 45 × 17 mm
Weight	40 g

223050 Voice Evacuation Interface SAA2-1

The Voice Evacuation Interface SAA2-1 is used for linking Fire Detection Control Panels Series BC600 or Series BC216 to voice alarm control panels according to DIN VDE 0833-4. The componentry has two line-monitored actuation outputs for the actuation of the voice alarm control panel (e.g., „START alarming“ and „STOP alarming“) as well as two line-monitored inputs that accept status messages of the voice alarm system. The signals that are needed for the functioning of the interface are provided by appropriately parameterised inputs and outputs of the fire detection control panel. The conditions of the outputs and inputs are indicated by two light emitting diodes each („active“ and „fault“) on the componentry. The fire detection control panel provides the Voice Evacuation Interface SAA2-1 with the operating voltage in conformity with EN 54-4.



Features:

- Two line-monitored outputs for the actuation of the voice alarm control panel
- Two line-monitored inputs that accept status messages of the voice alarm system
- Separate LEDs for the outputs and inputs indicate the conditions „active“ and „fault“
- Six open-collector outputs for feedback about the conditions of the line-monitored inputs and outputs
- Activation through appropriately parameterised outputs of the fire detection control panel

Specifications:

Operating voltage	from 21 VDC to 30 VDC
Current consumption typ.	35 mA (quiescent)
Output current max.	150 mA
Ambient temperature	from -5 °C to 50 °C
Dimensions W × H × D	98 × 74 × 18 mm
Weight	60 g

229012 Flat Cable 650mm/10-Pole FBK6-1

The flat cable with a length of 650 mm is used for the connection of componentries, which are connected via a 10-pole flat cable (e.g., Relay Modules RL58-1, RL58-2).



229008 Flat Cable 1700mm/10-Pole FBK17-1

The flat cable with a length of 1.7 m is used for the connection of componentries, which are connected via a 10-pole flat cable (e.g., Relay Modules RL58-1, RL58-2), if a longer cable than the supplied 650 mm cable is required.



1.5 Interfaces

1.5.1 Cable-connected Interfaces

223079 Long-Distance Modem BCnet600 ADA-M140

The Long-Distance Modem ADA-M140 allows you to extend the maximum distance between two sectional control panels of a Fire Detection Control Panel BCnet600 or BCnet216 to up to 4km.

The sectional control panels are connected through a telecommunication cable with at least 2 free wire pairs. Every sectional control panel requires one Long-Distance Modem ADA-M140 each on the incoming side as well as on the outgoing side.

In this way, it is also possible to bridge only individual sections of the high-security network, if required. The use of the long distance modem is furthermore recommended if no cabling with the minimum requirement of a network cable CAT 5 can be provided by the customer.



Features:

- Status LEDs indicate the data flow and the supply voltage
- Automatic adaptation to the transfer rate of the net600 or GSSnet
- Easy DIN rail mounting
- Cables are connected to screw terminals

Specifications:

Operating voltage	from 10 VDC to 30 VDC
Current consumption typ.	125 mA (at 24 V)
Relative humidity (no condensation) max.	95 %
Protection class	IP20
Ambient temperature	from -25 °C to 50 °C
Dimensions W × H × D	88 × 90 × 62 mm
Weight	100 g

219009 USB to Serial Converter US232R-100

The converter is used for connecting the USB interface of a PC to the serial interface of a fire detection control panel.

Specifications:

Connections	USB connector type A 9-pole D-SUB connector
Cable length	1 m



223045 Data Logger Event Memory DLOG-1

The Data Logger DLOG-1 is used for storing all of the event data, which is output via the serial interface of a fire detection control panel, on an SD memory card. For this purpose, the data logger is connected to the serial interface of the fire detection control panel and the necessary parameterisation of the interface is carried out at the control panel. The data storage is started automatically when the supply voltage is applied.

To read out the event data, the memory card is removed from the data logger and inserted into the memory card reader of a PC or into the memory card slot of a notebook. The event data is stored in the „logdata.txt“ file in the ASCII format, with fixed



column width and without separator and can be opened and processed using any word processing program.

Features:

- Storage medium: SD memory card
- Status LED indicates the data storage
- Up to 4 million events on a 1 GB memory card
- Memory card, cable for connection of the power supply and two different data cables included in the delivery

Specifications:

Operating voltage	from 6 VDC to 32 VDC
Current consumption typ.	65 mA (at 24 V)
Ambient temperature	from -5 °C to 60 °C
Dimensions L × W × H	72 × 51 × 24 mm
Weight	80 g

Cross-references	Page	Art.No.	Name Type
	59	214025	Serial Interface Module SIM216-1

1.5.2 Fibre Optic Converters

223037 Gateway Multimode Fibre-BCnet600 LWL-MM-3

By means of the gateway, sectional control panels of a Fire Detection Control Panel BCnet600 can be networked via multimode optical fibres. The gateway must be installed in the housing of the fire detection control panel or in the auxiliary case that is mounted in the immediate vicinity of the control panel housing.

The sectional control panels are interconnected by means of an optical fibre cable with at least 2 free multimode fibres. In this way, it is also possible to bridge only individual sections of the high-security network net600 or GSSnet, if required.

Each sectional control panel requires a gateway on both the incoming and outgoing side. The ends of the multimode fibres have to be provided with an „ST“ connector (not included in the delivery) for optical fibres.



Features:

- Status LEDs indicate the supply voltage, the data flow and the transmission quality

Specifications:

Operating voltage	from 18 VDC to 30 VDC
Current consumption typ.	90 mA
Line type	50 / 125 µm or 62.5 / 125 µm / 1300 nm
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	90 × 100 × 22 mm
Weight	320 g

223032 Gateway Multimode Fibre-BCnet LWL-MM-2

By means of the gateway, sectional control panels of a Fire Detection Control Panel BCnet600 or BCnet216 can be networked via multimode optical fibres. The sectional control panels are interconnected by means of an optical fibre cable with at least 2 free multimode fibres. In this way, it is also possible to bridge only individual sections of the high-security network net600 or GSSnet, if required.

Each sectional control panel requires a gateway on both the incoming and outgoing side. The ends of the multimode fibres have to be provided with an „ST“ connector (not included in the delivery) for optical fibres.



Features:

- Status LEDs indicate the supply voltage, the data flow and the transmission quality
- All values can be set via a DIL switch
- Small dimensions
- Can be snapped onto a DIN rail

Specifications:

Operating voltage	from 18 VDC to 30 VDC
Current consumption typ.	90 mA (at 24 V)
Optical fibre length max.	5 km with 62.5 / 125 µm multimode fibre 3 km with 50 / 125 µm multimode fibre
Optical budget	12 dB
Line type	50 / 125 µm or 62.5 / 125 µm / 1300 nm
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	61 × 115 × 113 mm
Weight	500 g
Approval number VdS	G 912164

223033 Gateway Singlemode Fibre-BCnet LWL-SM-2

By means of the gateway, sectional control panels of a Fire Detection Control Panel BCnet600 or BCnet216 can be networked via singlemode optical fibres. The sectional control panels are interconnected by means of an optical fibre cable with at least 2 free singlemode fibres. In this way, it is also possible to bridge only individual sections of the high-security network net600 or GSSnet, if required.

Each sectional control panel requires a gateway on both the incoming and outgoing side. The ends of the singlemode fibres have to be provided with an „ST“ connector (not included in the delivery) for optical fibres.



Features:

- Status LEDs indicate the supply voltage, the data flow and the transmission quality
- All values can be set via a DIL switch
- Small dimensions
- Can be snapped onto a DIN rail

Specifications:

Operating voltage	from 18 VDC to 30 VDC
Current consumption typ.	90 mA (at 24 V)
Optical fibre length max.	15 km
Optical budget	17 dB
Line type	9 / 125 µm / 1300 nm
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	61 × 115 × 113 mm
Weight	500 g
Approval number VdS	G 912164

223034 Gateway 2xMultimode Fibre-BCnet LWL-2XMM-2

By means of the double gateway, sectional control panels of a Fire Detection Control Panel BCnet600 can be networked via multimode optical fibres. The sectional control panels are interconnected by means of an optical fibre cable with at least 2 free multimode fibres. In this way, it is also possible to bridge only individual sections of the high-security network net600, if required.

The gateway has two separate bi-directional transmission channels for networking the sectional control panel with both neighbouring sectional control panels. The ends of the multimode fibres have to be provided with an „ST“ connector (not included in the delivery) for optical fibres.



Features:

- Status LEDs indicate the supply voltage, the data flow as well as – for each channel separately – the transmission quality
- All values can be set via a DIL switch
- Small dimensions
- Can be snapped onto a DIN rail

Specifications:

Operating voltage	from 18 VDC to 30 VDC
Current consumption typ.	120 mA (at 24 V)
Optical fibre length max.	5 km with 62.5 / 125 µm multimode fibre
Optical budget	12 dB
Line type	62.5 / 125 µm / 1300 nm
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	61 × 115 × 113 mm
Weight	500 g

223036 Gateway 2xSinglemode Fibre-BCnet LWL-2XSM-2

By means of the double gateway, sectional control panels of a Fire Detection Control Panel BCnet600 can be networked via singlemode optical fibres. The sectional control panels are interconnected by means of an optical fibre cable with at least 2 free singlemode fibres. In this way, it is also possible to bridge only individual sections of the high-security network net600, if required.

The gateway has two separate bi-directional transmission channels for networking the sectional control panel with both neighbouring sectional control panels. The ends of the singlemode fibres have to be provided with an „ST“ connector (not included in the delivery) for optical fibres.



Features:

- Status LEDs indicate the supply voltage, the data flow as well as – for each channel separately – the transmission quality
- All values can be set via a DIL switch
- Small dimensions
- Can be snapped onto a DIN rail

Specifications:

Operating voltage	from 18 VDC to 30 VDC
Current consumption typ.	120 mA (at 24 V)
Optical fibre length max.	15 km
Optical budget	17 dB
Line type	9 / 125 µm / 1300 nm
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	61 × 115 × 113 mm
Weight	500 g

223035 Gateway Red. Multimode Fibre-BCnet LWLR-MM-2

By means of the redundant gateway, sectional control panels of a Fire Detection Control Panel BCnet600 can be networked via multimode optical fibres. The sectional control panels are interconnected by means of an optical fibre cable with at least 4 free multimode fibres. In this way, it is also possible to bridge only individual sections of the high-security network net600, if required.

The gateway has two separate bi-directional transmission channels for the redundant networking of two sectional control panels. In the event of a failure of an optical fibre connection, a switch-over to the other connection will be carried out automatically and without losing data. As a result, the network connection of the fire detection control panel meets even the highest safety demands. The ends of the multimode fibres have to be provided with an „ST“ connector (not included in the delivery) for optical fibres.



Features:

- Status LEDs indicate the supply voltage, the data flow as well as – for each channel separately – the transmission quality
- All values can be set via a DIL switch
- Small dimensions
- Can be snapped onto a DIN rail

Specifications:

Operating voltage	from 18 VDC to 30 VDC
Current consumption typ.	120 mA (at 24 V)
Optical fibre length max.	5 km with 62.5 / 125 µm multimode fibre
Optical budget	12 dB
Line type	62.5 / 125 µm / 1300 nm
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	61 × 115 × 113 mm
Weight	500 g

1.5.3 Interface Cables

219016 Programming Cable USB A-B 3 Meter PK-USB-A-B-3M

The programming cable is used for connecting the USB interface of a PC to the USB interface of a fire detection control panel.



Specifications:

Connections	USB connector type A, USB connector type B
Cable length	3 m

1.6 Overvoltage Protection

343003 Surge Arrester for 24VDC 0,75A 920324

The 4-wire lightning current and overvoltage surge arrester is designed to protect 4 single wires with common reference potential as well as asymmetrical interfaces. The blitzductor combines the permanently high surge current discharge capacity of a lightning current arrester with the low protection level of an overvoltage surge arrester for the effective protection of the end device.

By means of the blitzductor it is possible, for example, to effectively protect two conventional lines against interference and damage caused by current surges and overvoltage (e.g., in the event of an indirect lightning stroke).



Features:

- Especially space-saving design
- Easy installation and maintenance thanks to plug-in connections
- Designed to be mounted on a DIN rail using a plug-in base
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications:

Nominal voltage	24 VDC
Continuous voltage max.	33 VDC
Nominal current	0.75 A
Protection class	IP20
Ambient temperature	from -40 °C to 80 °C
Dimensions W × H × D	12 × 45 × 51 mm
Weight	45 g

Cross-references	Page	Art.No.	Name Type
	89	343020	Base for Surge Arrester 920300

343002 Surge Arrester for Detector Loop 920325

The 4-wire lightning current and overvoltage surge arrester is designed to protect 4 single wires with common reference potential as well as asymmetrical interfaces. The blitzductor combines the permanently high surge current discharge capacity of a lightning current arrester with the low protection level of an overvoltage surge arrester for the effective protection of the end device.

By means of the blitzductor it is possible, for example, to effectively protect the terminals of a loop interface against interference and damage caused by current surges and overvoltage (e.g., in the event of an indirect lightning stroke).



Features:

- Especially space-saving design
- Easy installation and maintenance thanks to plug-in connections
- Designed to be mounted on a DIN rail using a plug-in base
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications:

Nominal voltage	48 VDC
Continuous voltage max.	54 VDC
Nominal current	0.75 A
Protection class	IP20
Ambient temperature	from -40 °C to 80 °C
Dimensions W × H × D	12 × 45 × 51 mm
Weight	31 g

Cross-references	Page	Art.No.	Name Type
	89	343020	Base for Surge Arrester 920300

343001 Surge Arrester for Network BCnet 920271

The lightning current and overvoltage surge arrester is designed to protect 1 twin wire of earth potential-free high-frequency bus systems with direct or indirect shield earthing. The blitzductor combines the permanently high surge current discharge capacity of a lightning current arrester with the low protection level of an overvoltage surge arrester for the effective protection of the end device.

By means of the blitzductor it is possible, for example, to effectively protect the network interface of a BCnet216 or BCnet600 sectional control panel against interference and damage caused by current surges and overvoltage (e.g., in the event of an indirect lightning stroke).



Features:

- Especially space-saving design
- Easy installation and maintenance thanks to plug-in connections
- Designed to be mounted on a DIN rail using a plug-in base
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications:

Nominal voltage	5 VDC
Continuous voltage max.	6 VDC
Nominal current	1 A
Protection class	IP20
Ambient temperature	from -40 °C to 80 °C
Dimensions W × H × D	12 × 45 × 51 mm
Weight	29 g

Cross-references	Page	Art.No.	Name Type
	89	343020	Base for Surge Arrester 920300

343008 Surge Arrester for MOD-1/receiver 920240

The lightning current and overvoltage surge arrester is designed to protect 1 twin wire of earth potential-free symmetrical interfaces with direct or indirect shield earthing. The blitzductor combines the permanently high surge current discharge capacity of a lightning current arrester with the low protection level of an overvoltage surge arrester for the effective protection of the end device.

By means of the blitzductor it is possible, for example, to effectively protect the receive line of the Long-Distance Modem MOD-1, which is used to connect two BCnet sectional control panels with each other, against interference and damage caused by current surges and overvoltage (e.g., in the event of an indirect lightning stroke).



Features:

- Especially space-saving design
- Easy installation and maintenance thanks to plug-in connections
- Designed to be mounted on a DIN rail using a plug-in base
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications:

Nominal voltage	5 VDC
Continuous voltage max.	6 VDC
Nominal current	1 A
Protection class	IP20
Ambient temperature	from -40 °C to 80 °C

Dimensions W × H × D	12 × 45 × 51 mm
Weight	20 g

Cross-references	Page	Art.No.	Name Type
	89	343020	Base for Surge Arrester 920300

343009 Surge Arrester for MOD-1/transmitter 920364

The lightning current and overvoltage surge arrester is designed to protect 2 twin wires of symmetrical interfaces with diode protection circuits on the inputs, current loops and opto-coupled inputs. The blitzductor combines the permanently high surge current discharge capacity of a lightning current arrester with the low protection level of an overvoltage surge arrester for the effective protection of the end device.

By means of the blitzductor it is possible, for example, to effectively protect the transmit line of the Long-Distance Modem MOD-1, which is used to connect two BCnet sectional control panels with each other, against interference and damage caused by current surges and overvoltage (e.g., in the event of an indirect lightning stroke).



Features:

- Especially space-saving design
- Easy installation and maintenance thanks to plug-in connections
- Designed to be mounted on a DIN rail using a plug-in base
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications:

Nominal voltage	24 VDC
Continuous voltage max.	33 VDC
Nominal current	0.1 A
Protection class	IP20
Ambient temperature	from -40 °C to 80 °C
Dimensions W × H × D	12 × 45 × 51 mm
Weight	25 g

Cross-references	Page	Art.No.	Name Type
	89	343020	Base for Surge Arrester 920300

343006 Surge Arrester for NNU5-1 920344

The lightning current and overvoltage surge arrester is designed to protect 2 twin wires of earth potential-free symmetrical interfaces. The blitzductor combines the permanently high surge current discharge capacity of a lightning current arrester with the low protection level of an overvoltage surge arrester for the effective protection of the end device.

By means of the blitzductor it is possible, for example, to effectively protect the redundant alarm line of a sectional control panel against interference and damage caused by current surges and overvoltage (e.g., in the event of an indirect lightning stroke).



Features:

- Especially space-saving design
- Easy installation and maintenance thanks to plug-in connections
- Designed to be mounted on a DIN rail using a plug-in base
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications:

Nominal voltage	24 VDC
Continuous voltage max.	33 VDC
Nominal current	1 A

Protection class	IP20
Ambient temperature	from -40 °C to 80 °C
Dimensions W × H × D	12 × 45 × 51 mm
Weight	45 g

Cross-references	Page	Art.No.	Name Type
	89	343020	Base for Surge Arrester 920300

343005 Surge Arrester for RS232 920322

The 4-wire lightning current and overvoltage surge arrester is designed to protect 4 single wires with common reference potential as well as asymmetrical interfaces. The blitzductor combines the permanently high surge current discharge capacity of a lightning current arrester with the low protection level of an overvoltage surge arrester for the effective protection of the end device.

By means of the blitzductor it is possible, for example, to effectively protect an RS232 interface against interference and damage caused by current surges and overvoltage (e.g., in the event of an indirect lightning stroke).



Features:

- Especially space-saving design
- Easy installation and maintenance thanks to plug-in connections
- Designed to be mounted on a DIN rail using a plug-in base
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications:

Nominal voltage	12 VDC
Continuous voltage max.	15 VDC
Nominal current	0.75 A
Protection class	IP20
Ambient temperature	from -40 °C to 80 °C
Dimensions W × H × D	12 × 45 × 51 mm
Weight	31 g

Cross-references	Page	Art.No.	Name Type
	89	343020	Base for Surge Arrester 920300

343004 Surge Arrester for 24VDC 1,8A 920336

The 4-wire lightning current and overvoltage surge arrester is designed to protect 4 single wires with common reference potential as well as asymmetrical interfaces. The blitzductor combines the permanently high surge current discharge capacity of a lightning current arrester with the low protection level of an overvoltage surge arrester for the effective protection of the end device.

By means of the blitzductor it is possible, for example, to effectively protect two 24 V electric circuits or siren circuits against interference and damage caused by current surges and overvoltage (e.g., in the event of an indirect lightning stroke).



Features:

- Especially space-saving design
- Easy installation and maintenance thanks to plug-in connections
- Designed to be mounted on a DIN rail using a plug-in base
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications:

Nominal voltage	36 VDC
Continuous voltage max.	45 VDC

Nominal current	1.8 A
Protection class	IP20
Ambient temperature	from -40 °C to 80 °C
Dimensions W × H × D	12 × 45 × 51 mm
Weight	48 g

Cross-references	Page	Art.No.	Name Type
	89	343020	Base for Surge Arrester 920300

343007 Surge Arrester for 24VDC 25A 953201

The 2-wire overvoltage surge arrester is designed for the effective protection of sensitive devices that are supplied with a nominal voltage of 24 V. By means of the overvoltage surge arrester it is possible, for example, to effectively protect the 24 V power supply of components of a fire detection system against interference and damage caused by overvoltage (e.g., in the event of an indirect lightning stroke).



Features:

- Green-red colour marking indicates function
- Especially space-saving design
- Designed to be mounted on a DIN rail
- Replaceable arrester module
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications:

Nominal voltage	24 VDC
Continuous voltage max.	30 VDC
Nominal current	25 A
Protection class	IP20
Ambient temperature	from -40 °C to 80 °C
Dimensions W × H × D	18 × 90 × 73 mm
Weight	91 g

343030 Surge Arrester for 230VAC 952110

The modular overvoltage surge arrester for single-phase mains voltage is designed for the effective protection of sensitive devices that are supplied with 230 V mains voltage. By means of the overvoltage surge arrester it is possible, for example, to effectively protect the mains supply of components of a fire detection system against interference and damage caused by overvoltage (e.g., in the event of an indirect lightning stroke).



Features:

- Green-red colour marking indicates function
- Especially space-saving design
- Designed to be mounted on a DIN rail
- Replaceable arrester modules
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications:

Nominal voltage	230 VAC
Continuous voltage max.	275 VAC
Protection class	IP20
Ambient temperature	from -40 °C to 80 °C
Dimensions W × H × D	36 × 90 × 73 mm
Weight	258 g

343020 Base for Surge Arrester 920300

The base in series terminal technology is used to accommodate a lightning current and overvoltage surge arrester 920xxx. The arrester module is inserted into the spring contacts of the base and locked. The insertion is protected against reverse polarity. When the module is removed, the signals are automatically connected through. The plug-in base is designed for mounting on a DIN rail.

Specifications:

Dimensions W × H × D
Weight

12 × 90 × 50 mm
53 g



1.7 Line Terminators

229004 Alarm Resistor 100pcs. 1K/0,33W

The packing unit contains hundred 1 kOhm resistors, which are to be used with contact detectors (e.g., manual call points) in conventional technology. The resistors limit the line current of the detector line during alarm activation of the contact detector and serve to distinguish between a short circuit and an alarm.



229005 EOL Resistor 100pcs. 5,6K/0,33W

The packing unit contains hundred 5.6 kOhm resistors, which are to be used as line terminator („end-of-line resistor“) of a detector line in conventional technology.



229006 Diode/ 100pic. 1N4004/

The packing unit contains hundred 1N4004 diodes, which are to be used as blocking diode in case of negative monitoring voltage (e.g., Siren Connection Module SZ58-2 and SZ58-3) or as recovery diode for inductive loads.



1.8 Labels and Books

249041 Label BMZ BME/BMZ

The adhesive label with white background, red border and black inscription ‚Brandmelderzentrale‘ is used to indicate the location of the fire detection control panel.



Specifications:

Dimensions W × H
Material

297 × 105 mm
PVC foil, self-adhesive

249243 Label Loschsteuerzentrale BME/LSZ

The adhesive label with white background, red border and black inscription ‚LÖSCHSTEUERZENTRALE‘ is used to indicate the location of the extinguishing control panel.



Specifications:

Dimensions W × H
Material

297 × 105 mm
PVC foil, self-adhesive

249244 Label Arrow BME/PFEIL

The standardised adhesive label according to DIN 4066 with white background, red border and arrow is used together with the sign ‚Brandmelderzentrale‘, ‚Löschsteuerzentrale‘ or the like.



Specifications:

Dimensions W × H
Material

297 × 105 mm
PVC foil, self-adhesive

219612 Log Book for Fire Detection Systems BMA-BUCH

The log book for fire detection systems (according to DIN VDE 0833, Part 1 and 2, or DIN 14675) is used to document the condition of a system and to log all events over the entire period of its operation.



219610 Log Book for Fire Detection Systems VDS-BUCH

The VdS log book for fire detection systems (VdS 2182) is used to enter the master data and log all events during operation.



2

Power Supply Devices



2.1 Power Supply Units

2.1.1 Series NT624

The universal Power Supply Units Series NT624 are designed as supplementary power supplies in fire detection systems and extinguishing systems. By means of the power supply units, a variety of devices such as smoke aspiration systems, sounders, special detectors, solenoid valves or any other devices can be powered which require a reliable power supply with a nominal voltage of 24 V. The power supply units have been tested and certified according to EN 54-4.

The heart of the power supply units, the power unit, is available in three versions – with a maximum output current of 2.3 A, 4.3 A or 8.5 A.

Various housing models are available for installing the power units and the stand-by batteries. The wall-mount cabinets NTG624-1, NTG624-2 and NTG624-3 provide plenty of space for installing stand-by batteries and optional auxiliary modules, in addition to the power supply module. The Power Supply Front Panel NTG624-1CE with its thoughtful design can be installed in 19-inch switch cabinets. In this case the stand-by batteries are accommodated inside the switch cabinet.



317040 Power Supply NT602-2

The Power Supply NT602-2 is an autonomous componentry which powers devices that require a fail-safe power supply with a nominal voltage of 24 VDC. The power supply is a primary switched mode power supply with a high efficiency, which results in low self-heating and a long life span. The power supply fully complies with EN 54-4:2006 and is tested and certified by VdS according to the Construction Products Regulation CPR.



In case of a mains voltage failure, the unit continues to power the loads with current from optionally connected stand-by batteries. The stand-by batteries are charged with current limiting and temperature optimisation. The maximum possible load current can vary according to the battery capacity.

The power supply monitors all important characteristic values of the power supply according to EN 54-4:2006 (e.g., mains voltage, battery voltage, internal resistance of the stand-by battery, earth fault, output voltage). A malfunction is evaluated as fault which is indicated on the front of the power supply housing and can be transmitted to an external device.

The power supply is designed for installation in a Power Supply Housing Series NT624. The output voltage is available on screw terminals as well as on a connector which is intended for the connection of a System Supply Cable Series SVK600.

Specifications:

Mains voltage	230 VAC +10/-20 %, 47 - 63 Hz
Connected load	75 W
Output voltage typ.	27.6 VDC
Output current max.	2.3 A
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	158 × 131 × 70 mm
Weight	450 g
Approval number CPR	0786-CPR-21608
Approval number VdS	G 218064

317041 Power Supply NT604-2

The intended use, the characteristic values and the functions of the Power Supply NT604-2 correspond to those of the Power Supply NT602-2. It has a higher output current of up to 4.3 A and different dimensions.



Specifications:

Mains voltage	230 VAC +10/-20%, 47 - 63 Hz
Output current max.	4.3 A
Dimensions W × H × D	158 × 197 × 70 mm
Weight	900 g
Approval number CPR	0786-CPR-21608
Approval number VdS	G 218064

317042 Power Supply NT608-2

The intended use, the characteristic values and the functions of the Power Supply NT608-2 correspond to those of the Power Supply NT602-2. It has a higher output current of up to 8.5 A and different dimensions.

The temperature sensor is attached to the end of the approx. 2 m long sensor cable.



Specifications:

Mains voltage	230 VAC +10/-20%, 47 - 63 Hz
Output current max.	8.5 A
Dimensions W × H × D	158 × 197 × 80 mm
Weight	1.3 kg
Approval number CPR	0786-CPR-21608
Approval number VdS	G 218064

317050 Power Supply Housing NTG624-1

The Power Supply Housing NTG624-1 accommodates one Power Supply Series NT624. The stable powder coated sheet steel housing is designed for wall mounting. The housing provides space for the power supply as well as for the installation of stand-by batteries 2 × 12 V / max. 22 Ah and one Module Carrier BGT600-1. If required, further modules can be mounted on the side wall or on the door of the housing.

On the front side of the housing there is a display and operating board which allows resetting of the internal buzzer and whose light emitting diodes can signal operating and fault conditions. The LED displays and the button can be labelled in the respective national language by means of the supplied insertable labelling strips.

Cables can be entered at the back of the housing.



Specifications:

Protection class	IP30
Dimensions W × H × D	384 × 384 × 107 mm
Weight without components	3.7 kg
RAL colour	grey white, RAL 9002

Cross-references	Page	Art.No.	Name Type
	21	211143	Relay Module RL608-1
	50	211162	Module Carrier BGT600-1
	48	211373	Surface Mounting Frame AMR600-1
	75	222010	Relay Module RL58-2
	94	317040	Power Supply NT602-2
	95	317041	Power Supply NT604-2
	95	317042	Power Supply NT608-2

317051 Power Supply Front Panel NTG624-1CE

The Power Supply Front Panel NTG624-1/CE accommodates one Power Supply Series NT624. The front panel is a sheet steel carrier and can, thanks to its intelligent design, either be accommodated in a pivoting frame in 19" design or mounted on a mounting plate of a switch cabinet. In both cases, the optional stand-by batteries are accommodated in the switch cabinet. The front panel provides space for the power unit as well as for the installation of a Module Carrier BGT600-1 and a Relay Module RL608-1, RL58-1 or RL58-2. On the front side there is a display and operating board which allows resetting of the internal buzzer and whose light emitting diodes can signal operating and fault conditions. The LED displays and the button can be labelled in the respective national language by means of the supplied insertable labelling strips.



Specifications:

Dimensions W × H × D	478 × 266 × 20 mm
Height units	6
Weight without components	1.4 kg
RAL colour	grey white, RAL 9002

Cross-references	Page	Art.No.	Name Type
	21	211143	Relay Module RL608-1
	50	211162	Module Carrier BGT600-1
	94	317040	Power Supply NT602-2
	95	317041	Power Supply NT604-2
	95	317042	Power Supply NT608-2
	75	222010	Relay Module RL58-2

317052 Power Supply Housing NTG624-2

The Power Supply Housing NTG624-2 accommodates one Power Supply Series NT624. The stable powder coated sheet steel housing is designed for wall mounting. The housing provides space for the power supply as well as for the installation of stand-by batteries 2 × 12 V / max. 45 Ah and two Module Carriers BGT600-1. If required, further modules can be mounted on the side wall or on the door of the housing.



On the front side of the housing there is a display and operating board which allows resetting of the internal buzzer and whose light emitting diodes can signal operating and fault conditions. The LED displays and the button can be labelled in the respective national language by means of the supplied insertable labelling strips.

Cables can be entered either from above, from below, or from the back.

Specifications:

Protection class	IP30
Dimensions W × H × D	442 × 460 × 203 mm
Weight without components	7 kg
RAL colour	grey white, RAL 9002

Cross-references	Page	Art.No.	Name Type
	21	211143	Relay Module RL608-1
	50	211162	Module Carrier BGT600-1
	75	222010	Relay Module RL58-2
	94	317040	Power Supply NT602-2
	95	317041	Power Supply NT604-2
	95	317042	Power Supply NT608-2
	98	317054	Surface Mounting Frame AMR624-2

317053 Power Supply Housing NTG624-3

The Power Supply Housing NTG624-3 accommodates one Power Supply Series NT624. The stable powder coated sheet steel housing is designed for wall mounting. The housing provides space for the power supply as well as for the installation of stand-by batteries 4 × 12 V / max. 85 Ah and for further modules.

On the front side of the housing there is a display and operating board which allows resetting of the internal buzzer and whose light emitting diodes can signal operating and fault conditions. The LED displays and the button can be labelled in the respective national language by means of the supplied insertable labelling strips.

Cables can be entered either from above or from below.

The power supply housing comes with a flange plate with apertures that can be broken out, one Power Supply Carrier NTT600-1, one Module Carrier MPL17/3 as well as two Battery Brackets BK24-1. If necessary, an additional Module Carrier MPL17/3 can be installed. If the cables are entered from below, it is recommended that two additional battery brackets be used because otherwise the stand-by batteries would stand on the flange plate, thereby preventing entry of the cables.



Specifications:

Protection class	IP30
Dimensions W × H × D	800 × 1000 × 300 mm
Weight without components	65 kg
RAL colour	light grey, RAL 7035

Cross-references	Page	Art.No.	Name Type
	21	211143	Relay Module RL608-1
	108	212034	Module Carrier 19"/3HU MPL17/3
	75	222010	Relay Module RL58-2
	97	317033	Battery Bracket BK24-1
	94	317040	Power Supply NT602-2
	95	317041	Power Supply NT604-2
	95	317042	Power Supply NT608-2

317033 Battery Bracket BK24-1

The Battery Bracket BK24-1 is prepared for simple and secure installation of stand-by batteries in the Power Supply Housings NTG624-3 and NTG24-2 as well as in a 19" cabinet. The stable steel sheet design can accommodate either one stand-by battery 12 V / 65 Ah or 12 V / 85 Ah, or two stand-by batteries 12 V / 45 Ah.



Specifications:

Dimensions W × H × D	371 × 186 × 210 mm
Weight	2 kg
Material	sheet steel, 1.5 mm, galvanised

317055 Conversion Kit NT24xx to NT6xx UBS-NT24xx-NT6xx

The conversion kit is needed for installing a Power Supply Series NT624 in a Power Supply Housing Series NT24. Therefore, if you replace a Power Supply Module NTM240x-1 with a Power Supply NT60x-2, you can continue to use the existing power supply housing.

The conversion kit includes the mounting plates, all necessary screws and small parts as well as the Display and Operating Board ABB24-2.



Specifications:

Dimensions mounting plate L × W	292 × 220 mm
Weight	950 g

Material sheet steel, 1 mm, galvanised

211373 Surface Mounting Frame AMR600-1

The mounting frame is made of powder coated sheet steel and allows a Fire Detection Control Panel BC600-1x to be mounted at a distance from the wall. Rubber seals on both sides ensure sealing to the wall and to the control panel, thereby protecting the control panel against ingress of moisture from the backside. The cables can also be entered through knock-out openings from the top side and bottom side. If the fire detection control panel is installed where it is visible, the concealed cable entry allows it to be mounted in an optically pleasing way.



The surface mounting frame can also be used for mounting a Power Supply Housing NTG624-1 at a distance from the wall.

Specifications:

Dimensions W × H × D	384 × 384 × 43 mm
Weight	1.25 kg
Material	powder-coated sheet steel 1 mm
RAL colour	grey white, RAL 9002

Cross-references	Page	Art.No.	Name Type
	49	229651	Sealing Kit IP54 BC600-1x-DS

317054 Surface Mounting Frame AMR624-2

The mounting frame is made of powder coated sheet steel and allows a Power Supply Housing NTG624-2 to be mounted at a distance from the wall. Rubber seals on both sides ensure sealing to the wall and to the power supply, thereby protecting the power supply against ingress of moisture from the backside. The cables can be entered through knock-out openings from the top side or bottom side or – in the case of flush mounted cabling – from the back. Thanks to the concealed cable entry, the power supply can be installed in an optically pleasing way.

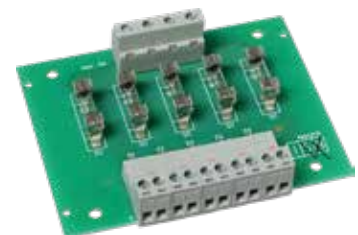


Specifications:

Dimensions W × H × D	442 × 460 × 43 mm
Weight	1.55 kg
Material	powder-coated sheet steel 1 mm
RAL colour	grey white, RAL 9002

223052 Power Distributor Board SVB5-1

The power distributor board is used to provide the supply voltage that is applied at the input at five independently fused outputs. For each output, an individual LED indicates whether the output voltage is available. The input voltage is connected via screw terminals. Via two more screw terminals, the input voltage can be routed to another SVB5-1 componentry. There are individual clamp terminals for the outputs.



Specifications:

Supply voltage	from 20 VDC to 30 VDC
Current consumption typ.	1 mA (at 24 V, all outputs active)
Fuse	0.5 A fast-acting
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	98 × 74 × 21 mm
Weight	55 g

2.1.2 DIN Rail Power Supply Units

317100 Power Supply 24V/1A-Stabilized NG1-1S

The electronically controlled compact power supply unit is designed for the supply of external loads with increased current consumption. The output voltage is adjusted within the adjustment range by means of a rotary potentiometer. The plastic housing is designed for mounting on 35 mm DIN rails. The power supply unit provides a constant voltage, therefore it is not suitable for directly charging stand-by batteries.



Features:

- Switched-mode power supply unit, current-limited and short-circuit proof
- Stabilised output voltage
- Adjustment range 24 – 28 VDC
- Light emitting diode for indicating the conditions operation and fault
- Integrated mains fuse

Specifications:

Mains voltage	90 - 264 VAC, 47 - 63 Hz
Supply voltage	from 120 VDC to 370 VDC
Output current max. (at 24 VDC)	1.3 A
Relative humidity (no condensation)	from 20 % to 95 %
Ambient temperature	from -25 °C to 71 °C
Dimensions W × H × D	53 × 91 × 55,6 mm
Weight	200 g
Casing material	Flame Retardant Polycarbonate (UL94 V-0)

317101 Power Supply 24V/2A-Stabilized NG2-1S

The electronically controlled compact power supply unit NG2-1S largely corresponds to the compact power supply NG1-1S, but it has a higher maximum output current and different dimensions.



Specifications:

Mains voltage	90 - 264 VAC, 47 - 63 Hz
Output current max. (at 24 VDC)	2.5 A
Dimensions W × H × D	71 × 91 × 55,6 mm
Weight	250 g

317102 Power Supply 24V/4A-Stabilized NG4-1S

The electronically controlled compact power supply unit NG4-1S largely corresponds to the compact power supply NG1-1S, but it has a higher maximum output current and different dimensions.



Specifications:

Mains voltage	90 - 264 VAC, 47 - 63 Hz
Output current max. (at 24 VDC)	4.2 A
Dimensions W × H × D	89,9 × 91 × 56,8 mm
Weight	320 g

2.2 Voltage Stabilizers

229014 Voltage Stabilizer 24VDC STAB24-3

The Voltage Stabilizer STAB24-3 is used to power devices which must be supplied from the fire detection control panel and which require tight supply voltage tolerances. The voltage stabilizer keeps the voltage fluctuations that are caused by the charging logic of the fire detection control panel to a minimum, thereby achieving reliable operation of the powered device in every operating condition of the fire detection control panel (mains and battery operation).

The componentry can be installed in Fire Detection Control Panels Series BC600 and BC08 as well as Power Supply Units Series NT624.



Features:

- High efficiency
- Easy installation
- Small dimensions

Specifications:

Current consumption typ.	50 mA (at 24 V without load)
Input voltage	from 18 VDC to 36 VDC
Output voltage typ.	26.1 VDC \pm 1%
Output current max.	3 A
Output power max.	75 W
Ambient temperature	from -20 °C to 60 °C
Dimensions L x W x H	98 x 74 x 40 mm
Weight	205 g

229015 Voltage Stabilizer 24VDC DDR-15G-24

The Voltage Stabilizer DDR-15G-24 is used to power devices which must be supplied from the fire detection control panel and which require tight supply voltage tolerances or galvanic isolation of the supply voltage. The voltage stabilizer compensates for the output voltage fluctuation that is caused by the charging logic of the fire detection control panel, thereby achieving reliable operation of the powered device in every operating condition of the fire detection control panel (mains and battery operation).



Features:

- Galvanic isolation between input and output voltage
- High efficiency
- DIN rail mounting
- Small dimensions

Specifications:

Input voltage	from 9 VDC to 36 VDC
Output voltage typ.	24 VDC \pm 2 %
Output current max.	0.63 A
Output power max.	15 W
Ambient temperature	from -40 °C to 85 °C
Dimensions W x H x D	17,5 x 90 x 54,5 mm
Weight	60 g

229016 Voltage Stabilizer 24VDC DDR-30G-24

The Voltage Stabilizer DDR-30G-24 is used to power devices which must be supplied from the fire detection control panel and which require tight supply voltage tolerances or galvanic isolation of the supply voltage. The voltage stabilizer compensates for the output voltage fluctuation that is caused by the charging logic of the fire detection control panel, thereby achieving reliable operation of the powered device in every operating condition of the fire detection control panel (mains and battery operation).



Features:

- Galvanic isolation between input and output voltage
- High efficiency
- DIN rail mounting
- Small dimensions

Specifications:

Input voltage	from 9 VDC to 36 VDC
Output voltage typ.	24 VDC \pm 2 %
Output current max.	1.25 A
Output power max.	30 W
Ambient temperature	from -40 °C to 85 °C
Dimensions W × H × D	35 × 90 × 54,5 mm
Weight	120 g

3

Cabinets, Fire Protection Housings and Accessories



3.1 Cabinets

212046 Cabinet 19"/15HU GEH19/15/IP55/SIT

The 19" wall-mount cabinet in robust sheet steel design consists of wall part, designer glazed door and swivel part with a height of 15 rack units. The wall-mount cabinet serves for housing equipment in 19" design, e.g., a Fire Detection Control Panel BC600-E.

Note: To allow unhindered opening of the swivel part, an empty space of at least 60 cm is needed on the left of the cabinet.

Features:

- Wall part with 2 cable gland plates
- Swivel part with mounting profiles
- Designer glazed door with comfort handle and two-step latching including a 3524 E lock



Specifications:

Dimensions W × H × D	600 × 746 × 473 mm
Weight approx.	49 kg
Material	Wall part and swivel part: 1.5 mm sheet steel Mounting plate: 2.5 mm galvanised sheet steel Viewing window: safety glass ESG, 3 mm
RAL colour	light grey, RAL 7035
Mounting depth max.	420 mm

212023 Cabinet 19"/36HU with Transparent Door GEH19/36-SIT

The 19" floor type cabinet in robust sheet steel design contains an integrated pivoting frame of 36 rack units and a glazed door with 3 mm safety glass. The 19" cabinet is used for installing devices in 19" design, e.g., a Fire Detection Control Panel BC600-E.

Features:

- Pivoting frame of 36 rack units and an aperture angle of 180°
- Side walls, back wall and top cover removable
- Mounting rails for additional components
- Side-by-side mounting with or without side wall
- Glazed door with 3 mm safety glass
- Comfort handle for profile half cylinder
- Mounting plate 36 RU
- Base with a height of 200 mm



Specifications:

Protection class	IP30
Dimensions W × H × D	800 × 2000 × 500 mm
Weight	140 kg
RAL colour	light grey, RAL 7035

Cross-references	Page	Art.No.	Name Type
	110	212044	Wiring Plan Pocket SZ-2514-000
	111	212045	Kit for Battery Bracket VX-8617-020/TS-8612-080
	110	212052	Cabinet Light LED LED-GEH19/X
	109	212053	Dummy Cover 19"/3HUplus AD8C-3H/PLUS
	111	212024	Brush Strip/super-airtight DK-7825-375

212049 Cabinet 19"/36HU with Steel Door GEH19/36-E

The 19" floor type cabinet in robust sheet steel design contains a mounting plate for 36 rack units. The 19" cabinet is used for installing devices in 19" design, e.g., a Fire Detection Control Panel BC600-E.



Features:

- Side walls, back wall and top cover removable
- Cable entry on the top cover with high density brush strip
- Mounting rails for additional components
- Side-by-side mounting with or without side wall
- Steel door
- Comfort handle for profile half cylinder
- Mounting plate 36 RU
- Base with a height of 200 mm

Specifications:

Protection class	IP30
Dimensions W × H × D	800 × 2000 × 500 mm
Weight	140 kg
RAL colour	light grey, RAL 7035

Cross-references	Page	Art.No.	Name Type
	110	212044	Wiring Plan Pocket SZ-2514-000
	111	212045	Kit for Battery Bracket VX-8617-020/TS-8612-080
	110	212052	Cabinet Light LED LED-GEH19/X
	109	212053	Dummy Cover 19"/3HUplus AD8C-3H/PLUS

212047 Cabinet 19"/40HU with Transparent Door GEH19/40-SIT

The 19" floor type cabinet in robust sheet steel design is structured in the same way as the floor type cabinet GEH19/36-SIT, but it contains a mounting plate for a height of 40 rack units.



Specifications:

Dimensions W × H × D	800 × 2200 × 500 mm
Weight	150 kg

Cross-references	Page	Art.No.	Name Type
	110	212044	Wiring Plan Pocket SZ-2514-000
	111	212045	Kit for Battery Bracket VX-8617-020/TS-8612-080
	110	212052	Cabinet Light LED LED-GEH19/X

212048 Cabinet 19"/45HU with Transparent Door GEH19/45-SIT

The 19" floor type cabinet in robust sheet steel design is structured in the same way as the floor type cabinet GEH19/36-SIT, but it contains a mounting plate for a height of 45 rack units.



Specifications:

Dimensions W × H × D	800 × 2400 × 600 mm
Weight	170 kg

Cross-references	Page	Art.No.	Name Type
	110	212044	Wiring Plan Pocket SZ-2514-000
	111	212045	Kit for Battery Bracket VX-8617-020/TS-8612-080
	110	212052	Cabinet Light LED LED-GEH19/X
	109	212053	Dummy Cover 19"/3HUplus AD8C-3H/PLUS

3.2 Fire Protection Housings

212647 Fire Protection Housing/FDCP/E30 EHL31/04224-MEP

The fire protection housing is an empty housing for wall mounting, with classification F-30A, and allows installation of Fire Detection Control Panels BC600-1x or auxiliary power units in the housing NTG624-1, according to the requirements of the MLAR or the LAR of the various states. The function of the integrated fire detection control panel and its activation devices or of the auxiliary power units is maintained for at least 30 minutes if flames are applied from the outside.

The functional integrity of the fire detection control panel as well as of the auxiliary power unit in the fire protection housing has been proven by separate fire tests carried out by an accredited test lab.

At any given time, only one power supply board may be used in the fire protection housing.



Features:

- Empty housing with high mechanical stability
- Integrated ventilation system, consisting of fan and smoke detector, installed and fully wired for connection (230 VAC)
- Seal system closes ventilation opening if smoke is detected
- Stainless steel hinges
- Door can be unhinged to reduce the weight for transport and installation
- Closed door does not protrude from basic frame, aperture angle approx. 180°
- Hinges can be installed on the left or right side
- Two-point door latch actuated via pivoted lever with double-bit cylinder (can be replaced with a cylinder from the building's set of dedicated locks)
- Full perimeter fire protection seal, automatically foaming in the event of fire
- Cable entry at the top and bottom, for inserting bundles
- Mounting rail for mounting of the device carriers or mounting plate

Specifications:

Functional integrity (DIN 4102)	30 min
Dimensions W × H × D	648 × 748 × 349 mm (external dimensions)
Dimensions W × H × D	504 × 604 × 240 mm (internal dimensions)
Weight without components	85 kg
RAL colour	light grey, RAL 7035
Approval number DIBt	Z-86.1-86

212648 Fire Protection Housing/FDCP/E30 EHL31/06334-MEP

The fire protection housing is an empty housing for wall mounting, with classification F-30A, and allows installation of Fire Detection Control Panels BC600-8 or BC600-16, according to the requirements of the MLAR or the LAR of the various states.

The function of the integrated fire detection control panel and its activation devices is maintained for at least 30 minutes if flames are applied from the outside.

The functional integrity of the fire detection control panels in the fire protection housing has been proven by separate fire tests carried out by an accredited test lab.

At any given time, only one power supply board may be used in the fire protection housing.



Features:

- Empty housing with high mechanical stability
- Integrated ventilation system, consisting of fan and smoke detector, installed and fully wired for connection (230 VAC)

- Seal system closes ventilation opening if smoke is detected
- Stainless steel hinges
- Door can be unhinged to reduce the weight for transport and installation
- Closed door does not protrude from basic frame, aperture angle approx. 180°
- Door hinge left/right changeable
- Two-point door latch actuated via pivoted lever with double-bit cylinder (can be replaced with a cylinder from the building's set of dedicated locks)
- Full perimeter fire protection seal, automatically foaming in the event of fire
- Cable entry at the top and bottom, for inserting bundles
- Mounting rail for mounting of the device carriers or mounting plate

Specifications:

Functional integrity (DIN 4102)	30 min
Dimensions W × H × D	898 × 1048 × 449 mm (external dimensions)
Dimensions W × H × D	754 × 904 × 340 mm (internal dimensions)
Weight without components	167 kg
RAL colour	light grey, RAL 7035
Approval number DIBt	Z-86.1-86

3.3 Accessories

212040 Module Carrier 19"/6HU MPL600/6H

The 19" module carrier with a height of 6 rack units is used for constructing Fire Detection Control Panels BC600-E in the switch cabinet. On the module carrier, 2 Function Module Carriers FMT608-1 or Power Supply Carriers NTT600-1 can be mounted.

The module carrier can be mounted, for example, on the back of a Dummy Cover AD8C-6H in a pivoting frame.



Specifications:

Dimensions W × H × D	437 × 266 × 26 mm
Height units	6
Weight	1 kg
Material	sheet steel, 1mm, galvanised

Cross-references	Page	Art.No.	Name Type
	51	211150	Function Module Carrier FMT608-1
	51	211164	Power Supply Carrier NTT600-1
	109	212033	Dummy Cover 19"/6HU AD8C-6H

211331 Expansion Front Panel 19"/4HU EFP600-1

The Expansion Front Panel EFP600-1 is intended for the installation of two expansion fields in the door or in the pivoting frame of Fire Detection Control Panels BC600-E in 19" cabinets. The front panel can also be used to cover a height of 4 rack units.



Specifications:

Dimensions W × H × D	478 × 177 × 20 mm
Height units	4
Weight	1 kg
RAL colour	grey white, RAL 9002

212034 Module Carrier 19"/3HU MPL17/3

The 19" mounting plate with a height of 3 rack units is used for installation in 19" cabinets and provides mounting holes in the LST standard grid for the mounting of auxiliary modules. The module carrier can hold, for example, 17 Isolator Modules ISM1-x, 4 Relay Modules RL58-1 or RL58-2, 4 Siren Connection Modules SZ58-2 or SZ58-3, or 2 Modules MEA244-1/E.



Specifications:

Dimensions W × H × D	478 × 133 × 10 mm
Weight	400 g
Material	zinc coated sheet steel

Cross-references	Page	Art.No.	Name Type
	75	222004	Relay Module RL58-1
	75	222010	Relay Module RL58-2
	76	223026	Siren Connection Module SZ58-3

212030 Dummy Cover 19"/2HU AD8C-2H

The powder coated 19" front panel with a height of 2 rack units is needed for covering non-populated pivoting frame areas of a 19" cabinet.

Specifications:

Dimensions W × H × D	478 × 89 × 3 mm
Weight	350 g
RAL colour	grey white, RAL 9002



212029 Dummy Cover 19"/3HU AD8C-3H

The powder coated 19" front panel with a height of 3 rack units is needed for covering non-populated pivoting frame areas of a 19" cabinet.

Specifications:

Dimensions W × H × D	478 × 133 × 3 mm
Weight	500 g
RAL colour	grey white, RAL 9002



212053 Dummy Cover 19"/3HUplus AD8C-3H/PLUS

The powder coated 19" front panel is needed for covering unpopulated pivoting frame areas of a 19" switch cabinet with a transparent door and a height of 36 or 45 rack units. Since it is somewhat higher than the Dummy Cover 3HU, the remaining gap at the lower and upper edge of the pivoting frame is also covered.

Two dummy covers are needed per pivoting frame.

Specifications:

Dimensions W × H × D	478 × 149 × 3 mm
Weight	560 g
RAL colour	grey white, RAL 9002



212033 Dummy Cover 19"/6HU AD8C-6H

The powder coated 19" front panel with a height of 6 rack units is needed for covering non-populated pivoting frame areas of a 19" cabinet.

Specifications:

Dimensions W × H × D	478 × 266 × 15 mm
Weight	800 g
RAL colour	grey white, RAL 9002



212031 Mounting Kit 19"/3HU EW8C-E

The sheet steel mounting kit is designed as 19" slide-in unit with a height of 3 rack units. It allows installation of stand-by batteries (2 × 12 V/max. 45 Ah or 1 × 12 V/65 Ah).

Specifications:

Dimensions W × H × D	478 × 133 × 200 mm
Height units	3
Weight	2 kg
RAL colour	grey white, RAL 9002



212052 Cabinet Light LED LED-GEH19/X

The light is intended for installation inside a switch cabinet. Especially bright white light emitting diodes are used as lamp. The switch and an earthed safety socket (for service equipment, electric tools or the like) are integrated into the light. For the connection of the light and for connecting the supply voltage to additional lights, a GST18 connector and a GST18 socket have been integrated.



Features:

- Luminous flux 900 lm

Specifications:

Mains voltage	100 VAC - 240 VAC
Connected load	11 W
Protection class	IP20
Ambient temperature	from -20 °C to 55 °C
Dimensions L × W × H	437 × 80 × 44 mm
Weight	460 g
RAL colour	anthracite grey, RAL 7016

269004 Sensor Light-LED/AAA 400083

The battery-powered sensor light can be used for illuminating switch cabinets or fire brigade map boxes. Due to the use of LEDs, the light is especially power-saving, and as a result a long battery life is achieved. Together with the light sensor, the built-in motion detector ensures that the light will only be activated when work is being carried out in the switch cabinet or housing, and only when it is dark.



Specifications:

Energy supply	3 batteries 1.5 V
Battery type	AAA
Dimensions L × W × H	194 × 23 × 27 mm
Weight (without batteries)	70 g

212044 Wiring Plan Pocket SZ-2514-000

By means of the self-adhesive attachment strips, the circuit diagram pocket is stuck onto the inner surfaces of the switch cabinet. The pocket, which is open at the top, is designed to accommodate the wiring plans or building plans in the format A4.



Specifications:

Dimensions W × H × D	228 × 254 × 17 mm
Weight	140 g
Material	polystyrene

212045 Kit for Battery Bracket VX-8617-020/TS-8612-080

The material set of system profiles is used to construct a battery bracket in a 19" switch cabinet with a depth of 500 mm and a width of 800 mm.

Specifications:

Dimensions W × H × D

800 × 73 × 440 mm

Weight

2.7 kg

Material

zinc coated sheet steel



212024 Brush Strip/super-airtight DK-7825-375

The special brush strips may be used to create airtight entries for cable sections and conductors. The brush strips arranged in an offset configuration ensure good sealing from the routed cables even with large quantities of cables.



4 Fire Brigade Devices



4.1 Fire Brigade Control and Display Devices

250025 Fire Brigade Control Unit FBF70-1/S1

The Swedish version of the Fire Brigade Control Unit FBF70-1 is designed for the indication of the most important events and operating conditions of a Fire Detection Control Panel Series BC600, Series BC216 or Series BC016 by means of light emitting diodes and an additional text display, as well as to allow the fire brigade personnel to operate a fire detection system in an easy and standardised way. The operating elements are labelled in Swedish language.



In addition, a lock according to the standard SS 3654 is integrated in the fire brigade control unit. By means of this lock, the fire brigade personnel can directly access authorization level 2.

On the integrated 4-line LC display, alarms and disablements of the fire detection control panel are indicated as clear text and can be called up one after the other by means of the scroll button. In addition, the alarms are signalled by the integrated buzzer.

By means of the Parameter Setup Software PARSOFT, general parameters of the control unit as well as the function of the inputs and outputs can be set. For each of the 4 light emitting diodes which indicate events, the colour and the number range for the activation can be determined. Furthermore, the firmware can be updated by means of PARSOFT, and in this way, the control unit can be provided with functions which may be required in the future.

The Fire Brigade Control Unit FBF70-1 is actuated via the INFO bus of the control panel or via the INFO bus EP of a Fire Detection Control Panel Series BC600. The control unit can be connected to a Fire Detection Control Panel Series BC600 or Series BC216 without any additional devices. For the connection to a Fire Detection Control Panel Series BC016, a Serial Interface Module SIM016-3 is required.

Features:

- Sheet steel housing for wall mounting
- 4-line LC display for the indication of events as clear text
- Parameterisable LED displays for important operating conditions
- Integrated buzzer with silence function
- Multilingual operation menu
- USB interface for parameterisation and firmware update
- LED and LCD test function
- 4 auxiliary inputs and 2 auxiliary outputs with parameterisable function
- Lettering of the display elements by means of labelling strips

Specifications:

Operating voltage	from 15 VDC to 31 VDC
Current consumption typ.	15 mA (at 24 V, display and LEDs dark)
Current consumption max.	55 mA (at 24 V, lamp test)
Baudrate INFO bus	600 Baud 1200 Baud 2400 Baud 4800 Baud
Baudrate INFO bus EP	1200 Baud 2400 Baud 4800 Baud 9600 Baud 14400 Baud
Connections	USB socket type B
Relative humidity (no condensation) max.	95 %
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	250 × 174 × 30 mm
Weight	1.4 kg
RAL colour	grey white, RAL 9002

250026 Alarm Delay Control Unit IBF70-1/S1

The Swedish version of the Alarm Delay Control Unit IBF70-1 is designed for the indication of the alarms and the most important operating conditions of a Fire Detection Control Panel Series BC600, Series BC216 or Series BC016 by means of light emitting diodes and an additional text display, as well as for operating the alarm delay procedure of the transmitting device at a site that is remote from the fire detection control panel. The operating elements are labelled in Swedish language.



On the integrated 4-line LC display, alarms of the fire detection control panel are indicated as clear text. In addition, the alarms are signalled by the integrated buzzer.

By means of the Parameter Setup Software PARSOFT, general parameters of the control unit, the function of the inputs and outputs, and sectors for the alarm delay procedure can be set. For each of the 4 light emitting diodes which indicate events, the colour and the number range for the activation can be determined. Furthermore, the firmware can be updated by means of PARSOFT, and in this way, the control unit can be provided with functions which may be required in the future.

The Alarm Delay Control Unit IBF70-1 is actuated via the INFO bus of the control panel or via the INFO bus EP of a Fire Detection Control Panel Series BC600. The control unit can be connected to a Fire Detection Control Panel Series BC600 or Series BC216 without any additional devices. For the connection to a Fire Detection Control Panel Series BC016, a Serial Interface Module SIM016-3 is required.

Features:

- 4-line LC display indicates alarms with clear text
- Parameterisable LED displays for important operating conditions
- Integrated buzzer with silence function
- Multilingual operation menu
- USB interface for parameterisation and firmware update
- LED and LCD test function
- 4 auxiliary inputs and 2 auxiliary outputs with parameterisable function
- Lettering of the display elements by means of labelling strips
- Sheet steel housing for wall mounting

Specifications:

Operating voltage	from 15 VDC to 31 VDC
Current consumption typ.	15 mA (at 24 V, display and LEDs dark)
Current consumption max.	55 mA (at 24 V, lamp test)
Baudrate INFO bus	600 Baud 1200 Baud 2400 Baud 4800 Baud
Baudrate INFO bus EP	1200 Baud 2400 Baud 4800 Baud 9600 Baud 14400 Baud
Connections	USB socket type B
Relative humidity (no condensation) max.	95 %
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	250 × 174 × 30 mm
Weight	1.4 kg
RAL colour	grey white, RAL 9002

250028 Fire Brigade Control Unit FBF70-1E/INT1

The international version of the Fire Brigade Control Unit FBF70-1 is designed for the indication of the most important events and operating conditions of a Fire Detection Control Panel Series BC600 by means of light emitting diodes and a text display. Additionally, the unit allows the fire brigade personnel to operate the fire detection system in an easy and standardised way.

On the integrated 4-line LC display, alarms and disablements of the fire detection control panel are indicated as clear text and can be called up one after the other by means of the scroll button. In addition, the alarms are signalled by the integrated buzzer.

By means of the Parameter Setup Software PARSOFT, general parameters of the control unit as well as the function of the inputs and outputs can be set. For each of the 4 light emitting diodes which indicate events, the colour and the number interval for the activation can be determined. Furthermore, the firmware can be updated by means of PARSOFT, and in this way, the control unit can be provided with functions which may be required in the future.

The Fire Brigade Control Unit FBF70-1 can be installed in one of the expansion fields in the door of the fire detection control panel, in the Display And Operating Front Panel ABP600-1L or in the Expansion Front Panel EFP600-1. The unit is actuated via the INFO bus or via the INFO bus EP of the control panel.



Features:

- 4-line LC display for the indication of events as clear text
- Parameterisable LED displays for important operating conditions
- Integrated buzzer with silence function
- Multilingual operation menu
- USB interface for parameterisation and firmware update
- LED and LCD test function
- 4 auxiliary inputs and 2 auxiliary outputs with parameterisable function
- Lettering of the display elements by means of labelling strips

Specifications:

Operating voltage	from 15 VDC to 31 VDC
Current consumption typ.	15 mA (at 24 V, display and LEDs dark)
Current consumption max.	55 mA (at 24 V, lamp test)
Baudrate INFO bus	600 Baud 1200 Baud 2400 Baud 4800 Baud
Baudrate INFO bus EP	1200 Baud 2400 Baud 4800 Baud 9600 Baud 14400 Baud
Connections	USB socket type B
Relative humidity (no condensation) max.	95 %
Ambient temperature	from -20 °C to 60 °C

Cross-references	Page	Art.No.	Name Type
	37	211330	Display and Operating Front Panel ABP600-1L
	108	211331	Expansion Front Panel 19"4HU EFP600-1

250029 Fire Brigade Control Unit FBF70-1E/S1

The Swedish version of the Fire Brigade Control Unit FBF70-1 corresponds to the international version FBF70-1E/INT1. The operating elements are however labelled in Swedish language.

In addition, a lock according to the standard SS 3654 is integrated in the fire brigade control unit. By means of this lock, the fire brigade personnel can directly access authorization level 2.



250630 Fire Brigade Display Panel FAT950-1/D1

The Fire Brigade Display Panel FAT950-1/D1 according to DIN 14662 is an ancillary device for fire detection systems and allows acoustic and optical indication of events from detectors or detector zones and of control panel events of Fire Detection Control Panels Series BC600 and Series BC216 at a remote site. The standardised and clear design is user friendly and allows the fire brigade personnel a quick overview of the relevant information and easy operation.



If the FAT950-1/D1 is used as a means of initial information for the fire brigade personnel, it is connected to the fire detection control panels via the optional Redundant Connection Adapter FAR950-1/D1. Alternatively, this device can also be connected directly to the INFO bus of the Fire Detection Control Panel Series BC600 or Series BC216. The operating voltage is supplied by the fire detection control panel and is therefore protected against mains failure, and depending on the selected operating mode, it is fed without or with redundancy.

By default, the event texts of the fire detection control panel are adopted. Additional texts can be edited with the Parameter Setup Software PARSOFT. Furthermore, the Parameter Setup Software PARSOFT allows limiting the indication of events by parameterising filters. As a result, certain types of events (e.g., technical messages, faults or disablements) can be suppressed or number ranges can be determined for output. In this way, area tableaus for separate fire brigade access points can be easily implemented.

The front panel of the display panel can be rotated to the left and allows free access to the connection plate with screw terminals at the back panel of the housing. The housing is equipped with a lock for profile half cylinders. The lock cylinder has to be installed after consulting the local fire brigade.

Features:

- Green LED for „operation“
- Red LED for „alarm“
- Yellow LED for faults
- Yellow LED for disablements
- Buttons „Display level / >5s: History“, „Buzzer off / >5s: Test“, „Scroll forwards“ and „Scroll backwards“
- 4 line by 20 character backlit display
- Integrated buzzer with silence function
- Multilingual operation menu
- USB interface for parameterisation and firmware update
- LED and LCD test function
- 4 switching inputs and two switching outputs with parameterisable function
- Stylish metal housing with lockable door
- Hinged front panel
- Separate connection plate with screw terminals
- Surface mounted gate lock for profile half cylinder

Specifications:

Operating voltage	from 20 VDC to 30 VDC
Current consumption typ.	35 mA (at 20 V, display and LEDs dark)
Current consumption max.	150 mA (at 20 V, buzzer and display test)
Baudrate INFO bus	600 Baud 1200 Baud 2400 Baud 4800 Baud
Baudrate INFO bus EP	1200 Baud 2400 Baud 4800 Baud 9600 Baud 14400 Baud
Connections	USB socket type B
Relative humidity (no condensation) max.	95 %
Protection class	IP30
Ambient temperature	from 0 °C to 50 °C
Dimensions W × H × D	250 × 180 × 43 mm
Weight	1.75 kg
RAL colour	pebble grey, RAL 7032
Approval number VdS	G 213064

Cross-references	Page	Art.No.	Name Type
	119	250632	Redundant Connection Adapter FAR950-1/D1

250631 Fire Brigade Orientation Panel FOT950-1/D1

As a means of initial information, the Fire Brigade Orientation Panel FOT950-1/D1 provides the fire brigade personnel on-site with quick and precise information about the condition of the fire detection system. It includes a fire brigade control unit according to DIN 14661, which allows the fire brigade to operate the fire detection control panel, and a fire brigade display panel according to DIN 14662 for the retrieval of information.

If the FOT950-1/D1 is used as a means of initial information for the fire brigade personnel, it is connected to the fire detection control panel via the optional Redundant Connection Adapter FAR950-1/D1. Alternatively, this device can also be connected directly to the INFO bus of the Fire Detection Control Panel Series BC600 or Series BC216. The operating voltage is supplied by the fire detection control panel and is therefore protected

against mains failure, and depending on the selected operating mode, it is fed without or with redundancy. By default, the event texts of the fire detection control panel are adopted. Additional texts can be edited with the Parameter Setup Software PARSOFT. Furthermore, the Parameter Setup Software PARSOFT allows limiting the indication of events by parameterising filters. As a result, certain types of events (e.g., technical messages, faults or disablements) can be suppressed or number ranges can be determined for output. In this way, area tableaus for separate fire brigade access points can be easily implemented.

Four freely parameterisable auxiliary LEDs are visible when the door of the tableau is open. They can be used, for example, as status displays of the fire brigade key box. The parameterisation is also carried out by means of the Parameter Setup Software PARSOFT.

Using simple means, the FOT950-1/D1 can be combined with the Fire Brigade Map Box FPKCLR950-1/D1 (DOM CL1 lock) or Fire Brigade Map Box FPKPHZR950-1/D1 (lock for profile half cylinder), thereby forming a compact unit.



Features:

- Integrated fire brigade display panel according to DIN 14662
- Integrated fire brigade control unit according to DIN 14661
- 4 line by 20 character backlit display
- Integrated buzzer with silence function
- Multilingual operation menu
- USB interface for parameterisation and firmware update
- LED and LCD test function
- 4 switching inputs and two switching outputs with parameterisable function
- 4 freely parameterisable auxiliary LEDs
- Stylish metal housing with lockable door
- Hinged front panel
- Separate connection plate with screw terminals
- Surface mounted gate lock for profile half cylinder

Specifications:

Operating voltage	from 20 VDC to 30 VDC
Current consumption typ.	38 mA (at 20 V, display and LEDs dark)
Current consumption max.	160 mA (at 20 V, buzzer and display test)
Baudrate INFO bus	600 Baud 1200 Baud 2400 Baud 4800 Baud
Baudrate INFO bus EP	1200 Baud 2400 Baud 4800 Baud 9600 Baud 14400 Baud
Connections	USB socket type B
Relative humidity (no condensation) max.	95 %
Protection class	IP30

Ambient temperature	from 0 °C to 50 °C
Dimensions W × H × D	250 × 350 × 95 mm
Weight	3.35 kg
RAL colour	flame red, RAL 3000
Approval number VdS	G 213063

Cross-references	Page	Art.No.	Name Type
	119	250632	Redundant Connection Adapter FAR950-1/D1
	120	250634	Fire Brigade Map Box FPKCLR950-1/D1
	121	250635	Fire Brigade Map Box FPKPHZR950-1/D1

250632 Redundant Connection Adapter FAR950-1/D1

By means of the adapter FAR950-1/D1, the Fire Brigade Display Panel FAT950-1/D1 and the Fire Brigade Orientation Panel FOT950-1/D1 or FOT950-2/D1 can be connected to a Fire Detection Control Panel Series BC600 or Series BC216 with redundancy. These two devices provide the initial information for the fire brigade personnel in charge. The redundant connection is achieved by means of two separate INFO bus interfaces as well as two independent power supplies. The adapter componentry comes with all accessories needed for installation in the respective fire detection control panel.



Features:

- 2 separate power supply inputs
- 2 INFO bus output interfaces
- 2 separate power supply outputs
- 2 separate fault outputs
- USB interface for firmware update

Specifications:

Operating voltage	from 10 VDC to 30 VDC
Current consumption typ.	72 mA (at 24 V)
Connections	screw terminals
Ambient temperature	from 0 °C to 50 °C
Dimensions W × H × D	95 × 75 × 32 mm
Weight	75 g
Approval number VdS	G 213063 G 213064

Cross-references	Page	Art.No.	Name Type
	118	250631	Fire Brigade Orientation Panel FOT950-1/D1
	117	250630	Fire Brigade Display Panel FAT950-1/D1

4.2 Fire Brigade Map Boxes

268008 Fire Brigade Map Box with desk FWP-3/A4

The fire brigade map box is used for the safekeeping of the alarm plans in the main approach route of the fire brigade. The metal box is designed for wall mounting and can hold a binder in DIN A4 format with a width of 7.5 cm. The door of the map box can be pulled down, thus serving as a writing desk or as a place to put the documents. A manual call point lock is built in as standard and can optionally be replaced with a cylinder for steel sheet mounting.



Specifications:

Dimensions W × H × D	350 × 440 × 110 mm
Weight	4.5 kg
RAL colour	flame red, RAL 3000

Cross-references	Page	Art.No.	Name Type
	110	269004	Sensor Light-LED/AAA 400083
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK

268026 Fire Brigade Map Box with desk FWP-3/A3

As regards the features and cross-references, the fire brigade map box is identical to the map box FWP-3/A4. However, it can accommodate one binder in DIN A3 format or two binders in DIN A4 format with a width of 7.5 cm.



Specifications:

Dimensions W × H × D	700 × 440 × 110 mm
Weight	8.7 kg

250634 Fire Brigade Map Box FPKCLR950-1/D1

The fire brigade map box is used for the safekeeping of fire brigade maps, building-specific technical documents and sundry materials, as well as the following quantities of fire brigade route maps:

Polyester route maps:

- A3 / A4 landscape format: 140 pieces
- A4 portrait format: 280 pieces

Laminated route maps:

- A3 / A4 landscape format: 100 pieces
- A4 portrait format: 200 pieces



The map box is made of powder coated sheet steel and contains an installed safety lock with CL1 locking.

Specifications:

Type of lock	DOM-CL1
Dimensions W × H × D	520 × 350 × 95 mm
Weight	6.1 kg
Material	powder-coated sheet steel
RAL colour	flame red, RAL 3000

Cross-references	Page	Art.No.	Name Type
	118	250631	Fire Brigade Orientation Panel FOT950-1/D1

250635 Fire Brigade Map Box FPKPHZR950-1/D1

The fire brigade map box is used for the safekeeping of fire brigade maps, building-specific technical documents and sundry materials, as well as the following quantities of fire brigade route maps:

Polyester route maps:

- A3 / A4 landscape format: 140 pieces
- A4 portrait format: 280 pieces

Laminated route maps:

- A3 / A4 landscape format: 100 pieces
- A4 portrait format: 200 pieces



The map box is made of powder coated sheet steel and contains an installed lock for profile half cylinders.

Specifications:

Type of lock	Bolt lock for PHZ
Dimensions W × H × D	520 × 350 × 95 mm
Weight	6.1 kg
Material	powder-coated sheet steel
RAL colour	flame red, RAL 3000

Cross-references	Page	Art.No.	Name Type
	118	250631	Fire Brigade Orientation Panel FOT950-1/D1

4.3 Fire Brigade Key Depots

265901 Key Depot SD950-1S1

The Key Depot SD950-1S1 is designed for the theft-proof and copy-protected safekeeping of building keys which allow the fire brigade fast and non-violent access to the building. At the factory it is prepared for one building key. If necessary, it can be upgraded to accommodate maximum six monitored building keys. Overlong building keys can also be accommodated. Incorrect deposit of the building keys is signalled by a buzzer and a status display.



The temperature and humidity control of the heating that is built in as standard ensures unhindered opening of the outer door even at low temperatures and reduces condensation in the interior to a minimum. The key depot can be connected via the key depot adapter AD900-1 to fire detection control panels from any manufacturer.

Features:

- Can accommodate to maximum six profile half cylinders from the building's locking system
- Overlong building keys possible (handle can be up to 75 mm long)
- Two-coloured status display on the door knob for „Unlocked“ or „Sabotage“
- Two-coloured status display in the interior for „key status/interior protected“
- Buzzer signals incorrectly deposited keys
- It can be heard and felt when keys reach the monitored position
- LED interior lighting
- Different inner doors allow all fire brigade locking systems to be used
- USB interface for firmware update
- Temperature- and humidity-controlled heating (24 VDC, 6 W) as standard
- Outer door monitored by drilling protection
- Easy installation by means of flush mounting frames (installation also in stainless steel columns, heat-insulating facades or surface-mount housing)
- Integrated trim frame, permanently welded
- Complete housing made of V2A stainless steel, brushed surface

Specifications:

Operating voltage	12 VDC ±5 % or 24 VDC ±15 %
Current consumption typ.	280 mA
Protection class	IP56 (room for connection)
Ambient temperature	from -25 °C to 60 °C
Heating voltage / power	24 VDC / 6 W
Dimensions W × H × D	258 × 236 × 143 mm
Weight (without inner door)	9 kg
Material	V2A stainless steel
Approval number VdS	G 199055

Cross-references	Page	Art.No.	Name Type
	124	265933	Extension Monitored Building Key OSUE950-1
	125	265919	key console for 6 keys SDMK-6
	124	265905	Interior Door for SD950_PHZ ITA950-1
	124	265907	Interior Door for SD950_DBUS-TYP2 ITB950-1
	124	265908	Interior Door for SD950_DBUS-7009x ITF950-1
	125	265911	Flush Mounting Frame-Standard for SD950 EZ950-1
	125	265912	Flush Mount. Frame with Drilling Protection for SD950 EZBS950-1
	126	265918	Flush Mount. Frame/Drilling Protection/SD950/FSE EZBS950-2
	126	265913	Cavity wall adapter for SD950 EZTA950-1
	127	265917	Frame cover + weather roof SD950 and FSE BR-WSD950-FSE
	126	265916	weather roof SD950 WSD950-1
	127	237706	Power supply 24V DC 0,63A NT950-1
	127	265900	Adapter for Key Depot AD900-1/D1

265904 Key Depot flex SD950-1S1-flex

The Key Depot SD950-1S1-flex is designed for the theft-proof and copy-protected safekeeping of building keys which allow the fire brigade fast and non-violent access to the building. As a variant of the SD950-1S1, it is equipped with a hinged key console. When the inner door is opened, the console rotates towards the user – which improves the accessibility of the keys even further. The version with the flex console is prepared for one building key and can be upgraded for maximum three building keys. Incorrect deposit of the building keys is signalled by a buzzer and a status display. The temperature and humidity control of the heating that is built in as standard ensures unhindered opening of the outer door even at low temperatures and reduces condensation in the interior to a minimum. The key depot can be connected via the key depot adapter AD900-1 to fire detection control panels from any manufacturer.



Features:

- Hinged key console
- Can be upgraded for maximum three building keys
- Overlong building keys possible (handle can be up to 70 mm long)
- Two-coloured status display on the door knob for „Unlocked“ or „Sabotage“
- Two-coloured status display in the interior for „key status/interior protected“
- Buzzer signals incorrectly deposited keys
- It can be heard and felt when keys reach the monitored position
- LED interior lighting
- Different inner doors allow all fire brigade locking systems to be used
- USB interface for firmware update
- Temperature- and humidity-controlled heating (24 VDC, 6 W) as standard
- Outer door monitored by drilling protection
- Easy installation by means of flush mounting frames (installation also in stainless steel columns, heat-insulating facades or surface-mount housing)
- Integrated trim frame, permanently welded
- Complete housing made of V2A stainless steel, brushed surface

Specifications:

Operating voltage	12 VDC ±5 % or 24 VDC ±15 %
Current consumption typ.	280 mA
Protection class	IP56 (room for connection)
Ambient temperature	from -25 °C to 60 °C
Heating voltage / power	24 VDC / 6 W
Dimensions W × H × D	258 × 236 × 143 mm
Weight (without inner door)	9 kg
Material	V2A stainless steel
Approval number VdS	G 199055

Cross-references	Page	Art.No.	Name Type
	124	265933	Extension Monitored Building Key OSUE950-1
	124	265905	Interior Door for SD950_PHZ ITA950-1
	124	265907	Interior Door for SD950_DBUS-TYP2 ITB950-1
	124	265908	Interior Door for SD950_DBUS-7009x ITF950-1
	125	265911	Flush Mounting Frame-Standard for SD950 EZ950-1
	125	265912	Flush Mount. Frame with Drilling Protection for SD950 EZBS950-1
	126	265918	Flush Mount. Frame/Drilling Protection/SD950/FSE EZBS950-2
	126	265913	Cavity wall adapter for SD950 EZTA950-1
	127	265917	Frame cover + weather roof SD950 and FSE BR-WSD950-FSE
	126	265916	weather roof SD950 WSD950-1
	127	237706	Power supply 24V DC 0,63A NT950-1
	127	265900	Adapter for Key Depot AD900-1/D1

265905 Interior Door for SD950_PHZ ITA950-1

The inner door for Series SD950 key depots is made of 5 mm V2A stainless steel.

Specifications:

Dimensions W × H × D	143 × 162 × 43 mm
Weight without components	1.3 kg
Weight with lock	1.4 kg
Material	V2A stainless steel
Approval number VdS	G 199055



265907 Interior Door for SD950_DBUS-TYP2 ITB950-1

It is suitable for installation of a double-bit lock (Kruse) (lock not included in the delivery)

Specifications:

Dimensions W × H × D	143 × 162 × 30 mm
Weight without components	1 kg
Weight with lock	1.25 kg
Material	V2A stainless steel
Approval number VdS	G 199055



265908 Interior Door for SD950_DBUS-7009x ITF950-1

It is suitable for installation of a double-bit lock (Mauer 70091/92) (lock not included in the delivery).

Specifications:

Dimensions W × H × D	143 × 162 × 30 mm
Weight without components	1 kg
Weight with lock	1.42 kg
Material	V2A stainless steel
Approval number VdS	G 199055



265933 Extension Monitored Building Key OSUE950-1

The article OSUE950-1 is designed to allow a Series SD950 key depot to accommodate one additional monitored building key and consists of a mounting bracket for a profile half cylinder with a micro button and a connection cable.

By adding this article to the key depot more than once, up to six building keys can be monitored in the key depot.

Specifications:

Weight	200 g
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265919 key console for 6 keys **SDMK-6**

New

This key console is needed to increase the number of building keys that are monitored by a Key Depot Series SD950 to up to six. The delivery scope includes 5 sets Extension Monitored Building Key OSUE950-1.

Specifications:

Dimensions W × H × D	135 × 159 × 40 mm
Weight	1.2 kg
Approval number VdS	G 199055



Cross-references	Page	Art.No.	Name Type
	122	265901	Key Depot SD950-1S1

265911 Flush Mounting Frame-Standard for SD950 **EZ950-1**

The flush mounting frame is made of galvanised sheet steel and allows a Series SD950 key depot to be mounted completely flush with solid walls (built with bricks or made of concrete). In the construction phase of the building, the flush mounting frame is embedded in a wall. When the construction work has been finished, the key depot can be inserted and screwed on. Later on, the depot can be demounted just as easily.

Specifications:

Dimensions W × H × D	275 × 245 × 160 mm
Weight	3.3 kg
Material	zinc coated sheet steel
Approval number VdS	G 199055



265912 Flush Mount. Frame with Drilling Protection for SD950 **EZBS950-1**

The Flush Mounting Frame EZBS950-1 is made of galvanised sheet steel and is used if a Series SD950 key depot is to be mounted in walls with facade insulation, in a key depot column or in a surface-mount housing. The all-side drilling protection optimises the tamper security. If the facade insulation is thicker than 160 mm, a Cavity Wall Adapter EZTA950-1 is needed.

Specifications:

Dimensions W × H × D	233 × 203 × 160 mm
Weight	3.5 kg
Material	zinc coated sheet steel
Approval number VdS	G 199055 (SD950-1) G 122035 (SDS950-1)



Cross-references	Page	Art.No.	Name Type
	126	265913	Cavity wall adapter for SD950 EZTA950-1

265918 Flush Mount. Frame/Drilling Protection/SD950/FSE EZBS950-2

The Flush Mounting Frame EZBS950-2 is made of galvanised sheet steel, has an all-side drilling protection and, like the EZBS950-1, is used if a Series SD950 key depot is to be mounted in walls with facade insulation (up to 305 mm). In addition it offers an attachable flush mounting frame for an unblocking element.

If the facade insulation is thicker than 160 mm, a Cavity Wall Adapter EZTA950-1 is needed.



Specifications:

Dimensions W × H × D	233 × 330 × 160 mm
Weight	4.35 kg
Material	zinc coated sheet steel
Approval number VdS	G 199055

Cross-references	Page	Art.No.	Name Type
	126	265913	Cavity wall adapter for SD950 EZTA950-1

265913 Cavity wall adapter for SD950 EZTA950-1

The continuously adjustable cavity wall adapter that is made of galvanised sheet steel is needed if a Key Depot SD950 together with a flush mounting frame with all-side drilling protection (EZBS950) is mounted in facades with thick thermal insulation (180–305 mm). It can be used to ensure that the flush mounting frame is mounted in a way that is mechanically stable and „force-closed“ and provides anti-tamper protection.



Specifications:

Dimensions W × H × D	240 × 210 × 163 mm
Weight	4.5 kg
Material	zinc coated sheet steel
Approval number VdS	G 199055

Cross-references	Page	Art.No.	Name Type
	125	265912	Flush Mount. Frame with Drilling Protection for SD950 EZBS950-1
	126	265918	Flush Mount. Frame/Drilling Protection/SD950/FSE EZBS950-2

265916 weather roof SD950 WSD950-1

The protective cover offers additional protection against moisture in the area of the outer door, when raining water penetrates this area from the top or from the side.



Specifications:

Dimensions W × H × D	268 × 250 × 55 mm
Weight	450 g
Material	V2A stainless steel
Approval number VdS	G 199055

265917 Frame cover + weather roof SD950 and FSE BR-WSD950-FSE

The trim frame with protective cover offers additional protection against moisture in the area of the outer door, when raining water penetrates this area from the top or from the side. In addition, it allows an unblocking element to be mounted.

Specifications:

Dimensions W × H × D	300 × 400 × 57 mm
Weight	1.85 kg
Material	V2A stainless steel
Approval number VdS	G 199055



Cross-references	Page	Art.No.	Name Type
	135	265662	Unblocking Element for PHZ FSE/PHZ900-1
	126	265918	Flush Mount. Frame/Drilling Protection/SD950/FSE EZBS950-2
	131	265925	Surface-mount Housing for SD950 SDAG950-1
	135	265809	Cover Plate ADP700-2

265780 Cable Seal 2,5x200 blue KP-FSK

By means of the cable seal, the building key is permanently fastened to the auxiliary cylinder key of a fire brigade key box. The wire cable is introduced into the aluminium body and pulled out of it up to the desired length. The seal can only be opened by destroying the cable.

Specifications:

Dimensions Ø × L	2,5 × 200 mm
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237706 Power supply 24V DC 0,63A NT950-1

The Power Supply NT950-1 is used to power the heating of Key Depots Series SD950. It comes in a housing that is suitable for surface mounting. On the mains side, the device is protected by a B6 circuit breaker.

Specifications:

Mains voltage	230 VAC
Output current max.	0.63 A
Output power max.	15 W
Protection class	IP30
Ambient temperature	from 0 °C to 70 °C
Dimensions W × H × D	55 × 160 × 82 mm
Weight	290 g
Colour	grey white



265900 Adapter for Key Depot AD900-1/D1

The key depot adapter AD900-1 according to VdS 2105 is used together with a fire detection system to monitor and control fire brigade key depots, which are designed for the theft-proof safekeeping of building keys, and can be universally used with all usual key depots.

The conditions „Power“, „Key Box alarm“, „Key Box unlocked“ and „Key removed“ are optically indicated by LEDs. Additional operating elements on the printed circuit board allow easy testing of the sabotage line and opening the key depot to make commissioning and service easier. The unauthorized opening of the adapter is monitored by a door contact.



Features:

- LED optically indicates the status „Key removed“

Specifications:

Operating voltage	from 10 VDC to 30 VDC
Current consumption max.	20 mA (without key depot locking system)
Protection class	IP30
Ambient temperature	from -10 °C to 50 °C
Dimensions W × H × D	137 × 180 × 57 mm
Weight	0.9 kg
RAL colour	grey white, RAL 9002
Approval number VdS	G 105045

Cross-references	Page	Art.No.	Name Type
	122	265901	Key Depot SD950-1S1
	123	265904	Key Depot flex SD950-1S1-flex

268009 Fire Brigade Key Box FASB-AP

The fire brigade key deposit FASB-AP for surface mounting is used for storage of additional building keys. The key deposit is delivered without a lock. It provides authorised access for the fire brigade or secured access for service personnel (e.g., technicians for elevator or heating). On fire brigade access routes, the key deposit is only allowed on demand by the fire brigade, for example when the access to the fire brigade key safe is secured by a barrier.

The door and the stored key are not monitored. The door is opened and locked simply by means of the cylinder lock.



Features:

- Powder coated steel
- Easy installation

Specifications:

Dimensions W × H × D	150 × 150 × 57 mm
Weight	2.4 kg
RAL colour	pebble grey, RAL 7032

Cross-references	Page	Art.No.	Name Type
	129	265021	Cylinder for Steel Sheet Mounting LST1003-2

268010 Fire Brigade Key Box FASB-UP

As regards the features and cross-references, the fire brigade key box FASB for flush mounting is identical to the key box FASB-AP.

Specifications:

Dimensions W × H × D	150 × 150 × 57 mm
Weight	1.65 kg



265021 Cylinder for Steel Sheet Mounting LST1003-2

The cylinder for steel sheet mounting with the uniform magnetic lock system customised for the fire brigade is designed for installation into the Fire Brigade Key Box FASB.



Cross-references	Page	Art.No.	Name Type
	129	268011	MCS Key 882AML1003

268011 MCS Key 882AML1003

The key 882AML1003 for the installer of the system fits the magnetic lock cylinder LST1003, which is installed in the fire brigade key safe FSS850, as well as the magnetic cylinder for sheet steel mounting LST1003-2, which is intended for installation in the Fire Brigade Key Box FASB.



4.4 Key Depot Columns and Accessories

265921 Key Depot Column for SD950 SDS950-1

The Key Depot Column Series SDS950 in the free-standing version provides a platform for mounting a Key Depot Series SD950 and an optional unblocking element, if due to structural or technical reasons, installation in the building facade is not possible or not desired. For easy mounting, the front of the column's body can be removed. Top covers on which a strobe can be mounted or which have an integrated strobe can optionally be installed. Since the weather protection has been integrated through the design, a protective cover is not needed. Optimised materials usage results in weight saving, which allows one-man installation by means of the supplied heavy duty anchors, on a foundation provided by the customer. The key depot column comes with 4 heavy duty anchors and the mounting material.



Features:

- One-man installation possible
- Prepared for accommodating a flush mounting frame with all-side drilling protection for easily mounting the SD950 from the front side (a top cover contact is no longer needed)
- Easy installation of different unblocking elements
- Weather protection integrated through design (no protective cover needed)
- Extensive mounting accessories
- Complete housing made of V2A stainless steel, brushed surface

Specifications:

Dimensions W × H × D	330 × 1240 × 205 mm
Dimensions with top cover DA950-1/DA950-2	338 × 1243 × 231 mm
Dimensions with top cover DA950-3	338 × 1283 × 231 mm
Weight without components	36.9 kg
Material	V2A stainless steel
Approval number VdS	G 122035

Cross-references	Page	Art.No.	Name Type
	131	265926	Roof for SDS950 closed DA950-1
	132	265927	Roof for SDS950/Strobe DA950-2
	132	265928	Roof for SDS950/Integrated Strobe DA950-3
	125	265912	Flush Mount. Frame with Drilling Protection for SD950 EZBS950-1
	122	265901	Key Depot SD950-1S1
	123	265904	Key Depot flex SD950-1S1-flex
	135	265662	Unblocking Element for PHZ FSE/PHZ900-1
	135	265809	Cover Plate ADP700-2
	132	265931	Junction Box for Key Depot Colum SDS950 VT950-1
	133	265929	Base adapter for SDS950 SDSSA950-1

265922 Key Depot Column for SD950 wall mounting SDSW950-1

The Key Depot Column SDSW950-1 as wall mounting version provides a platform for mounting a Key Depot Series SD950 and an optional unblocking element, if due to structural or technical reasons, installation in the building facade is not possible or not desired. The delivery scope includes a wall adapter which can be used as drilling template, and which compensates for the protruding top cover so that there is no space between the column and the facade. For easy mounting, the front of the column's body can be removed. Top covers on which a strobe has been mounted or which have an integrated strobe can optionally be installed. Since the weather protection has been integrated through the design, a protective cover is not needed. Optimised materials usage results in weight saving, which allows one-man installation. The delivery scope also includes 6 heavy duty anchors and the mounting material.



Features:

- One-man installation possible
- Prepared for accommodating a flush mounting frame with all-side drilling protection for easily mounting the SD950 from the front side (a top cover contact is no longer needed)
- Easy installation of different unblocking elements
- Weather protection integrated through design (no protective cover needed)
- Extensive mounting accessories
- Complete housing made of V2A stainless steel, brushed surface

Specifications:

Dimensions W × H × D	330 × 1240 × 205 mm
Dimensions with top cover DA950-1/DA950-2	338 × 1243 × 231 mm
Dimensions with top cover DA950-3	338 × 1283 × 231 mm
Weight	42.2 kg
Material	V2A stainless steel
Approval number VdS	G 122035

Cross-references	Page	Art.No.	Name Type
	131	265926	Roof for SDS950 closed DA950-1
	132	265927	Roof for SDS950/Strobe DA950-2
	132	265928	Roof for SDS950/Integrated Strobe DA950-3
	125	265912	Flush Mount. Frame with Drilling Protection for SD950 EZBS950-1
	122	265901	Key Depot SD950-1S1
	123	265904	Key Depot flex SD950-1S1-flex
	135	265662	Unblocking Element for PHZ FSE/PHZ900-1
	135	265809	Cover Plate ADP700-2
	132	265931	Junction Box for Key Depot Colum SDS950 VT950-1

265925 Surface-mount Housing for SD950 SDAG950-1

New

The surface-mount housing has been designed for sabotage-protected surface mounting of a Key Depot Series SD950. It is used if there is no suitable facade for flush mounting and is always installed together with a Flush Mounting Frame with Drilling Protection EZBS950-1.

It has to be mounted on a solid wall (e.g., reinforced concrete, sandstone). It cannot be mounted on heat-insulating facades.

If, in addition, the wall is to be monitored for demolition, this can be achieved by means of the contact DK700-2.



Specifications:

Dimensions W × H × D	310 × 410 × 163 mm
Weight	8.3 kg
Material	V2A stainless steel
Approval number VdS	G 122035

Cross-references	Page	Art.No.	Name Type
	125	265912	Flush Mount. Frame with Drilling Protection for SD950 EZBS950-1
	122	265901	Key Depot SD950-1S1
	123	265904	Key Depot flex SD950-1S1-flex
	135	265662	Unblocking Element for PHZ FSE/PHZ900-1
	135	265809	Cover Plate ADP700-2
	134	265813	Top Cover Contact DK700-2

265926 Roof for SDS950 closed DA950-1

The closed top cover DA950-1 is made of 3 mm stainless steel with brushed surface and has been designed to cover the Key Depot Columns SDS950-1 and SDSW950-1.



Specifications:

Dimensions W × H × D	338 × 30 × 231 mm
Weight	2.6 kg

Material V2A stainless steel
 Approval number VdS G 122035

Cross-references	Page	Art.No.	Name Type
	130	265921	Key Depot Column for SD950 SDS950-1
	130	265922	Key Depot Column for SD950 wall mounting SDSW950-1

265927 Roof for SDS950/Strobe DA950-2

The top cover DA950-2 is made of 3 mm stainless steel with brushed surface and has been designed to cover the Key Depot Columns SDS950-1 and SDSW950-1. It is prepared for installation of a strobe (SOLEX10x or SOLEX3x). The mounting material is included in the delivery (but not the strobe).



Specifications:

Dimensions W × H × D 338 × 30 × 231 mm
 Weight 2.6 kg
 Approval number VdS G 122035

Cross-references	Page	Art.No.	Name Type
	130	265921	Key Depot Column for SD950 SDS950-1
	130	265922	Key Depot Column for SD950 wall mounting SDSW950-1
	136	356682	Strobe/WM/DC/wh/am/N SOLEX10A
	137	355675	Base for Sounder/Strobe/IP65/wh SW-IP65-SQ/RO

265928 Roof for SDS950/Integrated Strobe DA950-3

The strobe top cover DA950-3 impresses with its LED strobe that is integrated in the interior, which therefore is perfectly protected against vandalism and the effects of the weather. The colour of the strobe can be individually set by means of a jumper, depending on the requirement of the appropriate fire authority.



As an alternative to the strobe, the DA950-3 can be configured as fire brigade orientation lamp. If this function is activated, a warm white continuous light will be emitted on all four sides.

Specifications:

Dimensions W × H × D 338 × 50 × 231 mm
 Weight 5.3 kg
 Approval number VdS G 122035

Cross-references	Page	Art.No.	Name Type
	130	265921	Key Depot Column for SD950 SDS950-1
	130	265922	Key Depot Column for SD950 wall mounting SDSW950-1

265931 Junction Box for Key Depot Colum SDS950 VT950-1

New

By means of the Distribution Box VT950-1, it is ensured that the Key Depot Series SD950 and possibly further components are cabled in compliance with the relevant standards, if the Key Depot Column SDS950-1 or SDSW950-1 is only connected via a single cable.

The article consists of a VdS Class C distribution box which has been mounted in an IP66 housing and which is equipped with 2 tamper switches and 2 terminal strips in LSA Plus technology.



Specifications:

VdS class C
 Dimensions W × H × D 182 × 180 × 90 mm
 Weight 0.9 kg

Casing material	Polycarbonate
RAL colour	light grey, RAL 7035
Approval number VdS	G 122035

265929 Base adapter for SDS950 SDSSA950-1

New

The base adapter SDSSA950-1 is used to raise the level at which a Key Depot Column Series SDS950 is mounted if it cannot be mounted directly because cobblestones or the like surround the column, or rather, the base adapter. The base adapter is mounted on the foundation of the column and is used for the force-closed and form-closed transition to the Key Depot Column Series SDS950.

In this way it is ensured that the key depot is mounted at the height required by the standards.



Specifications:

Dimensions W × H × D	342 × 150 × 217 mm
Weight	5.5 kg
Material	V2A stainless steel
Approval number VdS	G 122035

265820 Key Depot Column /1650mm SDS700-2/MOD3

The key depot column is made of 3 mm stainless steel and provides a platform for mounting a Key Depot Series SD950, if installing the key depot in the building facade is not possible due to technical or structural reasons. In addition, the key depot column is prepared for installation of unblocking elements, letter boxes and other devices such as intercom systems. The devices that can be installed are not included in the delivery. The key depot column consists of a U-shaped body and the back plate, which can be removed for easy installation. If necessary, a strobe can be mounted on the top cover of the column. The key depot column has been designed as hollow column. It cannot be filled with concrete. The key depot column can be mounted by means of the mounting kit Heavy Duty Anchor SLA700-2. The key depot column comes with the adapter metal sheet for the EZBS950 and the mounting material.



Features:

- Allows installation of a flush mounting frame with all-side drilling protection, which can accommodate a key depot Series SD950
- Easy installation of various unblocking elements
- Installation of a letterbox
- Installation of optional devices such as intercom systems
- Extensive mounting accessories
- Flexible armoured tube for different types of cable entries
- Brushed stainless steel surface

Specifications:

Dimensions W × H × D	400 × 1650 × 300 mm
Weight without components	60 kg
Approval number VdS	G 106058

Cross-references	Page	Art.No.	Name Type
	134	265817	Top Cover DA1/700-2
	134	265819	Top Cover for Flash DA2/700-2
	134	265813	Top Cover Contact DK700-2
	122	265901	Key Depot SD950-1S1
	123	265904	Key Depot flex SD950-1S1-flex
	125	265912	Flush Mount. Frame with Drilling Protection for SD950 EZBS950-1
	126	265916	weather roof SD950 WSD950-1

Cross-references	Page	Art.No.	Name Type
	134	265811	Heavy Duty Anchor SLA700-2
	135	265662	Unblocking Element for PHZ FSE/PHZ900-1
	135	265809	Cover Plate ADP700-2
	135	265816	Distribution Box VT700-2

265811 Heavy Duty Anchor SLA700-2

The key depot column can be mounted on the concrete foundation by means of the Heavy Duty Anchor SLA700-2. The delivery scope includes four M12 chemical anchor capsules, M12 x 160 mm anchor rods, washers and hexagon nuts.



Specifications:

Application temperature from -5 °C to 40 °C

265817 Top Cover DA1/700-2

The flat top cover with edged sides is made of 3 mm stainless steel and is required for covering the Key Depot Column SDS700-2.



Specifications:

Dimensions W × H × D 410 × 30 × 320 mm
 Weight 3.6 kg

Cross-references	Page	Art.No.	Name Type
	134	265813	Top Cover Contact DK700-2

265819 Top Cover for Flash DA2/700-2

The flat top cover with edged sides is made of 3 mm stainless steel and is required for covering the Key Depot Column SDS700-2. The cover is prepared for installing strobes in various colours.



Specifications:

Dimensions W × H × D 410 × 30 × 320 mm
 Weight 3.6 kg

Cross-references	Page	Art.No.	Name Type
	134	265813	Top Cover Contact DK700-2
	136	356682	Strobe/WM/DC/wh/am/N SOLEX10A
	137	355675	Base for Sounder/Strobe/IP65/wh SW-IP65-SQ/RO

265813 Top Cover Contact DK700-2

The safety contact is needed for monitoring the idle position of the top cover of a Key Depot Column Series SDS700-2. It can also be installed in a surface-mount housing SDAG950-1 if, in addition, the wall is to be monitored for demolition. The contact is to be connected directly to the designated terminals of a Key Depot Series SD950. To prevent the top cover of the column or the body of the surface-mount housing from magnetically interfering with the contact, a steel plate is mounted on the inside of the top cover or surface-mount housing. The delivery scope includes a flexible cable in a tube with end caps, a steel plate and the mounting material.



Specifications:

Contact rating max. 10 W
 (180 VDC/50 mA or 20 VDC/500 mA)

Dimensions W × H × D	85 × 55 × 14,5 mm (contact with carrier plate)
Dimensions Steel plate W × H × D	50 × 50 × 2 mm
Dimensions Protective tube L × Ø	850 × 10 mm
Dimensions Length of connection cable	1,5 m

265816 Distribution Box VT700-2

By means of the Distribution Box VT700-2, it is ensured that the Key Depot Series SD950 and possibly further components are cabled in compliance with the relevant standards, if the Key Depot Column SDS700-2/MOD3 is only connected via a single cable.

The article consists of a VdS Class C distribution box which has been mounted in an IP66 housing and which is equipped with 2 tamper switches and 2 terminal strips in LSA Plus technology.



Specifications:

VdS class	C
Dimensions W × H × D	182 × 180 × 90 mm
Weight	0.9 kg
Casing material	Polycarbonate
RAL colour	light grey, RAL 7035
Approval number VdS	G 106058

265809 Cover Plate ADP700-2

The cover plate is made of 3 mm V2A stainless steel and is used for covering the cut-out for unblocking elements in the Key Depot Column SDS700-2, if no unblocking element is installed.



265662 Unblocking Element for PHZ FSE/PHZ900-1

The Unblocking Element FSE/PHZ900-1 is used as unlocking device for fire brigade key boxes in order to allow access to the deposited master key. Therefore, in the event of impending damage that may be caused by a storm or high water, the safety personnel can enter a building even without fire alarm.

The compatibility with all standard fire detection systems allows universal use, irrespective of the manufacturer.



Features:

- All mechanical components made of stainless steel
- Hermetically sealed switch with gold contacts
- Integrated heating
- Profile half cylinder with length of 25 mm, 30 mm or 35 mm can be installed
- Compatible with all standard fire detection control panels
- Universal line-monitored connection

Specifications:

Contact rating	max. 1 A / 42 VAC/VDC
Protection class	IP54
Ambient temperature	from -25 °C to 60 °C
Heating voltage / power	24 VAC, 1 VA / 24 VDC, 1 W
Dimensions W × H × D	80 × 80 × 80 mm
Weight (without lock cylinder)	0.5 kg

Approval number VdS

G 109094

Cross-references	Page	Art.No.	Name Type
	136	265663	Mounting Kit for FSE/PHZ900-1 MOSET-FSE/PHZ900-1
	136	265664	Protective Cover for FSE/PHZ900-1 SABD900-1

265663 Mounting Kit for FSE/PHZ900-1 MOSET-FSE/PHZ900-1

By means of the mounting kit MOSET-FSE/PHZ900-1, an Unblocking Element FSE/PHZ900-1 can be mounted on facades with thermal insulation. The set includes the mounting plate, four threaded rods with nuts and hexagon bolts, an armoured plastic tube and a screw joint. By cutting the threaded rods to the correct length, the completely installed unit can be adapted to the thickness of the thermal insulation, ranging between 45 mm and 160 mm. The base plate has a diameter of 100 mm.



Specifications:

Dimensions W × H	80 × 80 mm
Weight	275 g
Material	stainless steel

Cross-references	Page	Art.No.	Name Type
	135	265662	Unblocking Element for PHZ FSE/PHZ900-1

265664 Protective Cover for FSE/PHZ900-1 SABD900-1

The protective cover SABD900-1 additionally protects an Unblocking Element FSE/PHZ900-1 against vandalism and the strong influence of the weather. The mounting material as well as the necessary special tools are included in the delivery.



Specifications:

Dimensions W × H × D	80 × 80 × 12 mm
Weight	520 g
Material	stainless steel

Cross-references	Page	Art.No.	Name Type
	135	265662	Unblocking Element for PHZ FSE/PHZ900-1

356682 Strobe/WM/DC/wh/am/N SOLEX10A

The strobe has an orange cap and is suitable for indoor and outdoor mounting. The strobe comes with a base. A deep base version is available by means of which the protection class can be increased to IP65.



Features:

- Very high flash energy
- Wide operating voltage range
- Suitable for surface mounting
- Easy to mount due to bayonet lock
- Locking base

Specifications:

Operating voltage	from 9 VDC to 60 VDC
Current consumption max.	88 mA (at 24 V)
Protection class	IP54 (with standard base)
Ambient temperature	from -25 °C to 70 °C
Strobe frequency	1 Hz

Colour of lens/cap	orange
Luminous intensity	10 Cd
Dimensions Ø × H	93 × 65 mm
Weight	150 g
Approval number VdS	G 207018

Cross-references	Page	Art.No.	Name Type
	137	355675	Base for Sounder/Strobe/IP65/wh SW-IP65-SQ/RO

355675 Base for Sounder/Strobe/IP65/wh SW-IP65-SQ/RO

The base is used for mounting of sounders Series Roshni, of sounder-strobes Series ROLP-SOLISTA-BEACON, of strobes Series Solex or of strobes Series Solista-LX. The design of the base allows cable entry from the back or from the side.

Specifications:

Protection class	IP65
Ambient temperature	from -25 °C to 70 °C
Dimensions Ø × H	93 × 48 mm
Weight	50 g
Colour	white



5 Remote ACcess Tool REACT



250999 Remote Access by Means of the Remote Access Tool, Description REACT

By means of the „REmote ACcess Tool REACT“, the Fire Detection Control Panels Series BC600 and Series BC216 can be operated remotely and all operating conditions can be displayed. Access is possible through a PC or mobile devices such as smartphone or tablet. The APP for the access via mobile devices can be installed through the usual APP stores from Apple, Google or Huawei and can be found with the search term „Remote Access Tool“. On the PC, a web application that can be run in all usual browsers allows access.



The connection to the control panel is always handled via the REACT server that has been configured for this application and which decouples the communication. In this way, a direct data connection between the mobile device with the REACT application and the fire detection control panel is ruled out for safety reasons. The fire detection control panel must be connected to the local computer network or to the Internet via the IP interface. As an option, a mobile phone connection by means of an LTE module can also be used for this purpose. The encrypted data connection between the control panel and the REACT server is always established by the fire detection control panel.

A registered user can log into the REACT server using a user name and a password. If the user has access rights for several fire detection systems, they will be shown in the form of a list box.

The remote access tool REACT is offered in four different licence versions:

- **Basic version:** The simplest product version only offers a common indication of important system events – such as the number of alarms, faults or activated outputs.
- **Detailed view:** Like the Basic version; in addition, all events can be shown in detailed form – with time of the occurrence and the parameterised additional texts. The events are sorted and listed according to the type of event – alarms, faults, disablements, etc. That means the Detailed view shows the same information as the control panel.
- **Operation and „Push“:** Like the Detailed view; in addition, this licence version allows operation of the fire detection control panel. Furthermore, system events that occur can be sent to the mobile device by means of „Push“ messages. In this way, the user is actively informed about important events. This licence also enables the sending of SMS or e-mail messages.
- **Plan view:** Like Operation and „Push“; in addition, the system conditions of the detectors, actuations, etc., can be shown on a ground plan or on a fire brigade route map. That means the user has the greatest possible overview of the current situation. The system can also be operated.

For highest demands on the protection against unauthorized access, the remote access can be even further restricted by assigning individual additional options. For example, the operation of the system can be limited to a set time window or can be made dependent on the occurrence of certain events. Furthermore, access can be restricted in such a way that it is only possible after locating the remote user and verifying the geographical proximity to the fire detection control panel, by evaluating the GPS data or recognising the WLAN of the customer. In this way, the requirement of ÖNORM F 3000 that stipulates that the authorization for operation may only be gained in a local area – usually the monitored object – that has been defined before, is also fulfilled.

In order to be able to reconstruct every access to the fire detection system and attribute it to the user, all activities on the REACT server are logged. All queries and all operations are saved on the server with time and detailed information. With this information, it is always possible to reconstruct which users have carried out queries or operations.

Cross-references	Page	Art.No.	Name Type
	141	223080	LAN Module/BC216/REACT LAN/BC216/REACT-1
	141	223083	LTE Module/REACT LTE/REACT-2
	142	420070	Licence REACT Detail LIC-R-DET
	142	420071	Licence REACT Operation and Push LIC-R-OPP
	143	420072	Licence REACT Map View LIC-R-MAP

223080 LAN Module/BC216/REACT LAN/BC216/REACT-1

By means of the LAN module, a Fire Detection Control Panel Series BC216's data that is transmitted via the Serial Interface Module SIM216-1 is converted into an IP protocol. In this way, a remote access to the fire detection control panel by means of the „REmote ACcess Tool“ REACT can be realised. The remote access allows the indication of the system conditions, automatic notification when events occur, as well as remote operation of the fire detection control panel.



The system administrator integrates the LAN module into the customer's LAN. The module establishes a connection to the REACT server on its own. For the encryption the SSL protocol is used, and a trustworthy server certificate authenticates the REACT server. If the connection is interrupted, the module will automatically attempt to establish it again. For reasons of safety, the remote access to the fire detection control panel from a PC or a mobile device is only possible via the REACT server.

Features:

- Prepared for DHCP
- Status LED
- Incl. prefabricated data cable to the SIM216-1, length 1.8 m
- Incl. plug-in power adapter, cable length 1.8 m

Specifications:

Energy supply	via plug-in power adapter or control panel
Operating voltage	from 9 VDC to 30 VDC
Current consumption typ.	68 mA (at 24 V)
Relative humidity (no condensation) max.	95 %
Protection class	IP30
Ambient temperature	from -40 °C to 85 °C
Dimensions L × W × H	90 × 64 × 23 mm
Weight	200 g

Cross-references	Page	Art.No.	Name Type
	59	214025	Serial Interface Module SIM216-1

223083 LTE Module/REACT LTE/REACT-2

By means of the LTE module, the REACT interface of a Fire Detection Control Panel Series BC600 or BC216 is connected to a mobile telephone network. As a result, a remote access to the fire detection control panel can be implemented by means of the „REmote ACcess Tool“ REACT and it is protected by state-of-the-art encryption technologies. The LTE module is needed if no LAN terminal is available. For the connection to Fire Detection Control Panels Series BC600, the LAN socket of the module is connected to the LAN interface of the ZTB600, using a patch cable. For the connection to Fire Detection Control Panels Series BC216, an LAN Module LAN/BC216/REACT is needed in addition.



The SIM card for the mobile data connection must be obtained by the end customer from the local mobile phone provider.

The SIM card must have a data volume of at least 1 GB (gigabyte) per month. After insertion of the SIM card, the LTE module has to be configured. If the mobile phone connection is interrupted, the module will automatically attempt to establish it again. If no LTE network is available, communication according to the UMTS or GSM standard is also possible.

If the mobile radio reception is not good enough near the system, the module can be installed in a location with better reception and can be connected to the control panel by means of a patch cable with a length of up to 100 m. In this case, the power for the LTE/REACT-2 is either provided by the supplied plug-in power adaptor via mains power from a nearby mains outlet, or is provided without interruption by the fire detection control panel – via an extension of the prefabricated 24 VDC cable.

Features:

- Download rate up to 150 MBit/s
- Upload rate up to 50 MBit/s

- Status LEDs for power, WLAN and LTE signal strength
- Incl. base for setting the LTE module up, and wall holder for mounting on an even surface
- Incl. plug-in power adaptor and prefabricated cable for powering the LTE module through the fire detection control panel
- PoE splitter as well as 1.5 m LAN cable

Specifications:

Operating voltage	from 11 VDC to 30 VDC
Current consumption typ.	100 mA at 27 V
Power consumption	5 W
Mobile bands GSM	850 MHz 900 MHz 1800 MHz 1900 MHz
Mobile bands UMTS	850 MHz 900 MHz 2100 MHz
Mobile bands LTE	800 MHz 900 MHz 1800 MHz 1900 MHz 2100 MHz 2600 MHz
Ambient temperature	from -40 °C to 60 °C
Dimensions W × H × D	85 × 185 × 30 mm
Weight	260 g

Cross-references	Page	Art.No.	Name Type
	141	223080	LAN Module/BC216/REACT LAN/BC216/REACT-1

420070 Licence REACT Detail LIC-R-DET

With the licence „Detail“ of the remote access system REACT, all events of a Fire Detection Control Panel Series BC600 or BC216 can be indicated on a mobile phone, tablet or PC. Every event is shown with the time of the occurrence, the parameterised additional texts, the logic number and a graphic symbol. The licence, which can be purchased in the REACT webshop, is always valid for a particular system and allows an **unlimited** number of users. The price depends on the size of the fire detection system (number of detectors and outputs).



420071 Licence REACT Operation and Push LIC-R-OPP

The licence „Operation and push“ of the remote access system REACT offers the following functions:

- All events of a Fire Detection Control Panel Series BC600 or BC216 can be indicated on a mobile phone, tablet or PC. Every event is shown with the time of the occurrence, the parameterised additional texts, the logic number and a graphic symbol.
- The zones, elements, actuations and other system parts can be operated through a mobile device or PC if this has been enabled for the respective user.
- If system events occur, a push notification can optionally be sent to the mobile device. In this way, the user is informed about important events, even if the REACT APP is not running at the moment.

The licence, which can be purchased in the REACT webshop or via e-mail, is always valid for a particular system and allows an **unlimited** number of users. The price depends on the size of the fire detection system (number of detectors and outputs).



420072 Licence REACT Map View LIC-R-MAP

The licence „Plan view“ of the remote access system REACT offers the same functions as the licence „Operation and push“. In addition, the detectors and actuations can be graphically indicated on ground plans or fire brigade route maps. If an event occurs, the activating detector or the actuation is shown in colour. As a result, the user can quickly locate the system part concerned. By tapping the detector or system part, it can also be operated directly in the plan view, provided that this has been enabled for the respective user.

The licence, which can be purchased in the REACT webshop, is always valid for a particular system and allows an **unlimited** number of users. The price depends on the size of the fire detection system (number of detectors and outputs).



420075 SMS fee REACT SMS-REACT

The SMS fee covers the cost incurred as a result of sending SMS messages to the users of the remote access system REACT. The SMS fee can only be paid in the REACT webshop, either by topping up a credit, or by settling a monthly invoice by credit card.

6 Alarm Monitoring Systems



218041 Alarm-Monitoring-Software-Licence ALVIS/F

The alarm monitoring software licence is required for using an operation control system for alarm reporting systems. The software allows for a concise depiction of the ground plans as well as detailed views of the facility.

The alarm monitoring software is a modular system with a modern user interface and can be configured according to your individual needs. The system allows comfortable uniform operation and control of the alarm reporting system. Depending on the configuration of the user interface, overview screens and photos of the facility can be displayed at any time, thus providing an optimal and quick overview in any situation.

Detail screens inform about all important events and report them chronologically as well as by type. For each event triggered by a detector, the respective detector can be located on the corresponding ground plan with a click of the mouse. Depending on the authorization level, operations regarding the fire detection system (disablement of detectors, operating units, actuations, etc.) can be carried out for every data point. Any status change in the system implicates also that the color of the respective symbol changes. Additional functions such as display of users logged on, display of screen dependent on the events, event-driven time programs, catalog of measures, etc. can be defined if required.

By using sample symbols, the parameters for similar functions can be set easily and quickly during a new installation as well as in the course of enhancements or modifications.



The minimum requirements for the PC are: Core i5 processor or better, minimum 16 GB RAM, interface for the connection of the fire detection control panel, mouse, keyboard, USB interface for dongle, 1 TB SSD, graphics card for 2 monitors.

The operating system must be Windows 10/11 or Windows Server 2016.

218052 Alarm-Monitoring-Software-Licence ALVIS/F/CLIENT

The client licence provides the control center software ALVIS on a further computer in the same network as the PC with the alarm monitoring software licence. The licence offers the same graphical user interface and the same possibilities of operation.

Depending on the regulations and requirements, it is possible to determine through the setup that, at any given time, only one user within the network can enter authorization.

218048 Alarm-Monitoring-Interface-Licence ALVIS-BC600

The alarm monitoring interface licence allows operation of the server, which controls the event-driven communication between the operation control system and the Fire Detection Control Panel Series BC600. The server runs as independent task in parallel to the visualisation user interface of the alarm monitoring system.

7

Loop Detectors, Modules, Optical and Acoustic Devices



7.1 Manual Call Points Series HME

240999 Manual Call Points Series HME, Overview

The Manual Call Points Series HME comply with Type B according to EN 54-11. The call point is activated by breaking the glass pane and pressing the button. The aluminium die-cast housing impresses with its modern design and numerous constructional details. In comparison with plastic cases, the aluminium housing proves to be of advantage even after years of use, thanks to its resistance to environmental impact: It is virtually unbreakable and form and colour stable. The manual call points are available both in conventional technology as well as in loop technology for the loop protocols Labor Strauss, System Sensor and Apollo. The Manual Call Points Series HME are available for numerous applications, in different colours and with different captions. The devices for loop connection have an integrated dual-isolator which disconnects the loop in the event of a short circuit.











The following table gives an overview of the Manual Call Points Series HME in the standard version (protection class IP43) and of the types with protection class IP65 that are in stock.

Features:


- Replaceable label plate
- Plenty of room for cabling
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching (default) or non-latching push button
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optionally available with protection class IP65
- Optional protective cover can provide additional mechanical protection

Specifications:

Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g

Technology	Type ¹⁾	Colour	Labelling ²⁾	Standard version Art.No.	Protection class IP65 Art.No.
Conventional	HME/3000/11/H1/02	flame red		240302	
	HME/5015/11/02/02	sky blue	HAUSALARM	240322	
	HME/1021/11/17/02	rape yellow	HANDAUSLÖSUNG Gaslöschanlage	240332	
	HME/1021/11/17/02-EN	rape yellow	MANUAL RELEASE GAS EXTING.	240378	
	HME/5015/11/18/02	sky blue	STOPP-TASTER Gaslöschanlage	240342	
	HME/5015/11/18/02-EN	sky blue	EMERGENCY STOP GAS EXTING.	240377	
	HME/6002/11/19/02	leaf green	NACHFLUTEN Gaslöschanlage	240382	
Conventional, 2nd switch	HME/3000/12/52/02	flame red	 FEUER		240108
	HME/5015/12/02/02	sky blue	HAUSALARM		240160
	HME/1021/12/17/02	rape yellow	HANDAUSLÖSUNG Gaslöschanlage		240109
	HME/5015/12/18/02	sky blue	STOPP-TASTER Gaslöschanlage		240161
	HME/6002/12/29/00	leaf green	AUSLÖSUNG ALLE STEUERUNGEN	240679	
2 independent switches	HME/1013/92/40/00	oyster white	NOTFALL	240800	
Loop, Labor Strauss Protocol	HME/3000/72/H1/02	flame red		240502	
	HME/3000/72/52/02	flame red	 FEUER		240164
	HME/5015/72/02/02	sky blue	HAUSALARM	240522	240165
	HME/1021/72/17/02	rape yellow	HANDAUSLÖSUNG Gaslöschanlage	240532	
	HME/5015/72/18/02	sky blue	STOPP-TASTER Gaslöschanlage	240542	
	HME/6002/72/29/02	leaf green	AUSLÖSUNG ALLE STEUERUNGEN	240799	
	HME/1013/72/40/00	oyster white	NOTFALL	240795	
Loop, System Sensor Protocol	HME/3000/25/H1/02	flame red		240402	
	HME/3000/25/52/02	flame red	 FEUER		240118
	HME/5015/25/02/02	sky blue	HAUSALARM	240422	240162
	HME/1021/25/17/02	rape yellow	HANDAUSLÖSUNG Gaslöschanlage	240432	240119
	HME/5015/25/18/02	sky blue	STOPP-TASTER Gaslöschanlage	240442	240163
	HME/6002/25/29/02	leaf green	AUSLÖSUNG ALLE STEUERUNGEN	240495	
	HME/2011/25/45/02	deep orange	Rauchabzug	240821	
	HME/1013/25/40/00	oyster white	NOTFALL	240793	
Loop, Apollo Protocol	HME/3000/32/H1/02	flame red		240602	
	HME/3000/32/52/02	flame red	 FEUER		240138
	HME/5015/32/02/02	sky blue	HAUSALARM	240622	240166
	HME/1021/32/17/02	rape yellow	HANDAUSLÖSUNG Gaslöschanlage	240632	240139
	HME/5015/32/18/02	sky blue	STOPP-TASTER Gaslöschanlage	240642	240167
	HME/6002/32/29/02	leaf green	AUSLÖSUNG ALLE STEUERUNGEN	240690	
	HME/1013/32/40/00	oyster white	NOTFALL	240794	

¹⁾ last 2 digits = logo. 00 ... without logo, 02 ... LST

²⁾ The symbol  on a manual call point with 'H1' in the type code is printed on the door and cannot be changed. All other manual call points have a replaceable labelling sign.

7.2 Series FI750 / FI700

The fire detection system Series FI750 / FI700 comprises manual and automatic fire detectors, modules and signalling devices, which are connected to the fire detection control panel in loop technology and communicate by means of the Labor Strauss protocol. All devices are provided with an integrated dual-isolator.

7.2.1 Automatic Detectors

241086 Optical Smoke Detector/750 FI750/O

The optical smoke detector operates by means of an optical sensing chamber based on the principle of scattered light. The detector is designed for use on the loop with Labor Strauss protocol. In the parameter setup of the control panel, one of four sensitivity levels can be selected, thereby adapting the detector optimally to the respective application.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – an effective measure for preventing false alarms. A fine-meshed protective grid protects the sensing chamber against ingress of dust and insects. In addition, the design of the housing makes it more difficult for dust to settle inside the sensing chamber.

The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector in red and the test condition in green. An output for the connection of a remote indicator is available. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.

The address of the detector can be set in the range 1 to 240 by means of the Programming Unit FI750/PU. In addition, the unit allows the reading-out of parameters, such as the level of contamination of the optical chamber, the default analogue value or the production date. Furthermore, in case of connection to a compatible fire detection control panel, the detector can also be AUTO-addressed.

The detector is integrated in a white housing and is designed for indoor mounting.



Features:

- Double dust protection and insect screen
- Easy function testing by means of magnet or test gas
- Terminal for external remote indicator
- Mechanical theft protection in the base

Specifications:

Current consumption loop typ.	160 µA
Current consumption loop max.	6 mA
Relative humidity (no condensation) max.	95 %
Protection class	IP40
Protection class	IP42 (with silicone gasket)
Ambient temperature	from -30 °C to 70 °C
Sensitivity opt. sensor	Level 1: 2.0 %/m Level 2: 2.7 %/m Level 3: 3.3 %/m Level 4: 4.0 %/m
Dimensions Ø × H	106 × 50 mm
Weight	86 g
Colour	white
Approval number CPR	2831-CPR-F4314
Approval number VdS	G 213043
Approval number LPCB	928b/02

Cross-references	Page	Art.No.	Name Type
	176	246086	Detector Base/750 FI750/B
	181	249275	Programming Unit FI750 FI750/PU

241087 Optical-Thermal Detector/750 FI750/OT

The optical-thermal detector operates both with an optical sensing chamber based on the principle of scattered light and with a rate-of-rise temperature sensor according to EN 54-5 Class A1R. The analysis of the analogue values of both detection units and the integrated comparison of characteristics of fire ensure safe fire detection.

The detector is designed for use on the loop with Labor Strauss protocol. In the parameter setup of the control panel, one of four sensitivity levels of the smoke detection unit can be selected, thereby adapting the detector optimally to the respective application. A thermal-only operation is also possible.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – an effective measure for preventing false alarms. A fine-meshed protective grid protects the sensing chamber against ingress of dust and insects. In addition, the design of the housing makes it more difficult for dust to settle inside the sensing chamber.

The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector in red and the test condition in green. An output for the connection of a remote indicator is available. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.

The address of the detector can be set in the range 1 to 240 by means of the Programming Unit FI750/PU. In addition, the unit allows the reading-out of parameters, such as the level of contamination of the optical chamber, the default analogue value or the production date. Furthermore, in case of connection to a compatible fire detection control panel, the detector can also be AUTO-addressed.

The detector is integrated in a white housing and is designed for indoor mounting. In the thermal-only mode the room height is limited to 7.5 m.



Features:

- Double dust protection and insect screen
- Easy function testing by means of magnet, test gas or test device for thermal detectors
- Terminal for external remote indicator
- Mechanical theft protection in the base

Specifications:

Current consumption loop typ.	160 µA
Current consumption loop max.	6 mA
Relative humidity (no condensation) max.	95 %
Protection class	IP40
Protection class	IP42 (with silicone gasket)
Ambient temperature	from -30 °C to 70 °C
Application temperature max.	50 °C
Sensitivity opt. sensor	Level 1: 2.0 %/m Level 2: 2.7 %/m Level 3: 3.3 %/m Level 4: 4.0 %/m
Alarm temperature typ.	58 °C (Class A1R)
Dimensions Ø × H	106 × 50 mm
Weight	86 g
Colour	white
Approval number CPR	2831-CPR-F4315
Approval number VdS	G 213045
Approval number LPCB	928c/02

Cross-references	Page	Art.No.	Name Type
	176	246086	Detector Base/750 FI750/B
	181	249275	Programming Unit FI750 FI750/PU

242086 Thermal Detector/750 FI750/T

The thermal detector is based on the principle of heat detection. On the fire detection control panel, the detector can be parameterised as rate-of-rise detector with a maximum temperature of 58 °C (Class A1R) or as maximum heat detector with an alarm temperature of 78 °C (Class BS). The detector is designed for use on the loop with Labor Strauss protocol.

The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector in red and the test condition in green. An output for the connection of a remote indicator is available. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.

The address of the detector can be set in the range 1 to 240 by means of the Programming Unit FI750/PU. In addition, the programming unit allows you to read out parameters such as the default analogue value or the production date. Furthermore, in case of connection to a compatible fire detection control panel, the detector can also be AUTO-addressed.

The detector is integrated in a white housing. If the detector operates as rate-of-rise detector (Class A1R), it can be used in rooms with a maximum height of 7.5 m. If the detector is used as maximum heat detector according to Class BS, a maximum room height of 6 m is permissible.



Features:

- Easy function testing by means of magnet or test device for thermal detectors
- Terminal for external remote indicator
- Mechanical theft protection in the base

Specifications:

Current consumption loop typ.	160 µA
Current consumption loop max.	6 mA
Relative humidity (no condensation) max.	95 %
Protection class	IP40
Protection class	IP42 (with silicone gasket)
Ambient temperature	from -30 °C to 70 °C
Application temperature max.	50 °C (Class A1R) 65 °C (Class BS)
Alarm temperature typ.	58 °C (Class A1R) 78 °C (Class BS)
Dimensions Ø × H	106 × 50 mm
Weight	86 g
Colour	white
Approval number CPR	2831-CPR-F4316
Approval number VdS	G 213044
Approval number LPCB	928a/02

Cross-references	Page	Art.No.	Name Type
	176	246086	Detector Base/750 FI750/B
	181	249275	Programming Unit FI750 FI750/PU

7.2.2 Manual Call Points

240502 MCP/red/700 HME/3000/72/H1/02

The manual call point according to EN 54-11 / type B in the aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Labor Strauss protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button.

The address of the device can be set in the range 1 to 240 by means of the Programming Unit FI750/PU. Alternatively, the device can be AUTO-addressed via a compatible fire detection control panel.



Features:

- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	90 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	flame red, RAL 3000
Approval number CPR	0786-CPR-21603
Approval number VdS	G 218059

Cross-references	Page	Art.No.	Name Type
	181	249275	Programming Unit FI750 FI750/PU
	314	249633	Protective Cover V2A for MCP/Red WG/ROT-E-1
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240164 MCP/red/700/FEUER HME/3000/72/52/02/IP65

As regards the function and cross-references, this red manual call point is identical to the Manual Call Point HME/3000/72/H1/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Features:

- Changeable door label with house symbol + „FEUER“, with house symbol on the reverse

Specifications:

Protection class	IP65
Dimensions W × H × D	127 × 127 × 35 mm
Weight	450 g
Approval number CPR	0786-CPR-21603
Approval number VdS	G 218059



240522 MCP/blue/700/HAUSALARM HME/5015/72/02/02

The manual call point in the blue aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Labor Strauss protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button.

The address of the device can be set in the range 1 to 240 by means of the Programming Unit FI750/PU. Alternatively, the device can be AUTO-addressed via a compatible fire detection control panel.

Features:

- Door label „HAUSALARM“, replaceable
- Latching (default) or non-latching push button
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optionally available with protection class IP65
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	90 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	sky blue, RAL 5015



Cross-references	Page	Art.No.	Name Type
	181	249275	Programming Unit FI750 FI750/PU
	314	249634	Protective Cover V2A for MCP/blue WG/BLAU-E-1
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240165 MCP/blue/700/HAUSALARM HME/5015/72/02/02/IP65

As regards the function and cross-references, this blue manual call point is identical to the Manual Call Point HME/5015/72/02/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Features:

- Door label „HAUSALARM“, replaceable
- 2 cable glands M20 × 1.5 mm, 1 dummy cable gland
- Latching (default) or non-latching push button

Specifications:

Protection class	IP65 (without protection kit)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	450 g



240532 MCP/yellow/700/HANDAUSLÖS. HME/1021/72/17/02

The manual call point in the yellow aluminium die-cast design housing operates as electrical activation device for extinguishing systems using gaseous or other extinguishing agents and is implemented in loop technology. For the bi-directional loop communication, the Labor Strauss protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to the standards EN 54-17 and EN 12094-3.

The address of the device can be set in the range 1 to 240 by means of the Programming Unit FI750/PU. Alternatively, the device can be AUTO-addressed via a compatible fire detection control panel.

Features:

- Changeable door label „HANDAUSLÖSUNG Gaslöschanlage“ according to EN 12094-3, with „HANDAUSLÖSUNG Feuerlöschanlage“ according to VdS 2496 on the reverse
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Button in combination with LED for setting the address from 1 to 126
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optionally available with protection class IP65
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	90 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	rape yellow, RAL 1021
Approval number CPR	0786-CPR-21604
Approval number VdS	G 218060



Cross-references	Page	Art.No.	Name Type
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK

Cross-references	Page	Art.No.	Name Type
	314	249636	Protective Cover V2A for MCP/yellow WG/GELB-E-1
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240542 MCP/blue/700/STOPP HME/5015/72/18/02

The manual call point in the blue aluminium die-cast design housing operates as electrical emergency hold device for extinguishing systems using gaseous or other extinguishing agents and is implemented in loop technology. For the bi-directional loop communication, the Labor Strauss protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to the standards EN 54-17 and EN 12094-3.



The address of the device can be set in the range 1 to 240 by means of the Programming Unit FI750/PU. Alternatively, the device can be AUTO-addressed via a compatible fire detection control panel.

Features:

- Door label „STOPP-TASTER Gaslöschanlage“, replaceable
- Non-latching push button
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	90 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	sky blue, RAL 5015
Approval number CPR	0786-CPR-21605
Approval number VdS	G 218061

Cross-references	Page	Art.No.	Name Type
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	314	249634	Protective Cover V2A for MCP/blue WG/BLAU-E-1
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240799 MCP/green/700/AUSL.BFS HME/6002/72/29/02

The manual call point in the green aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Labor Strauss protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button.



Depending on which side of the replaceable door label that has text printed on both sides is visible, the manual call point can be used for the following functions:

- Door label „Auslösung Brandfallsteuerungen“ (delivery condition): The manual call point is required according to ÖNORM F 3001 for manually overriding fire controls. The device is to be connected to the fire control panel.
- Door label „Aufzug Brandfallsteuerung“ (reverse): The manual call point is required according to TRVB S 111 for actuating lifts in the event of fire. The device is to be connected to the lift control or – if the building is equipped with a fire detection system – to the fire control panel.

The address of the device can be set in the range 1 to 240 by means of the Programming Unit FI750/PU. Alternatively, the device can be AUTO-addressed via a compatible fire detection control panel.

Features:

- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	90 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	leaf green, RAL 6002

Cross-references	Page	Art.No.	Name Type
	181	249275	Programming Unit FI750 FI750/PU
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	315	249694	Protective Cover V2A for MCP/green WG/GRÜN-E-1
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240795 MCP/white/700/NOTFALL HME/1013/72/40/00

The manual call point in the white aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Labor Strauss protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button.



The manual call point is designed for connection to an emergency and danger response system according to VDE 0827-1 and is used if quick alarming of the helping forces is required.

The address of the device can be set in the range 1 to 240 by means of the Programming Unit FI750/PU. Alternatively, the device can be AUTO-addressed via a compatible fire detection control panel.

Features:

- Blue user interface with operating instructions in the form of white symbols (EN 54-11)
- Door label „NOTFALL“, replaceable, optionally „POLIZEI-NOTRUF“
- Latching (default) or non-latching push button
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optionally available with protection class IP65
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	90 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	oyster white, RAL 1013

Cross-references	Page	Art.No.	Name Type
	181	249275	Programming Unit FI750 FI750/PU
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

245087 Manual Call Point/Red/750I/Flexi FI750/MCP

The manual call point according to EN 54-11 / type A is accommodated in a red plastic housing and is designed for use on the loop with Labor Strauss protocol. It is activated by pressing in the plastic pane without breaking it. By means of a special key, the pane can be put back to the idle position, thereby resetting the call point.

The two-coloured LED indicates the activated condition of the device in red, the fault condition in yellow and the loop polling in green. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.

The address of the device can be set in the range 1 to 240 by means of the Programming Unit FI750/PU. In addition, the programming unit allows you to read out parameters such as the default analogue value or the production date. Furthermore, in case of connection to a compatible fire detection control panel, the device can also be AUTO-addressed.



Features:

- Operating instructions in the form of symbols (EN 54-11)
- Activation by pressing in plastic pane without breaking it
- Plastic pane easy to reset
- Surface mounting box and special key included in delivery
- Flush mounting with optional mounting frame on a 60 mm installation box

Specifications:

Current consumption loop typ.	35 µA
Relative humidity (no condensation) max.	93 %
Protection class	IP21
Ambient temperature	from -10 °C to 55 °C (no icing)
Dimensions W × H × D	87 × 88 × 61 mm
Dimensions (what protrudes in case of flush mounting) W × H × D	87 × 88 × 25 mm

Weight	150 g
Colour	red
Approval number CPR	2831-CPR-F4470
Approval number LPCB	928h/02

Cross-references	Page	Art.No.	Name Type
	318	245095	Hinged Cover for FI7x0/MCP/PACK10pcs FI720/750/MCP/C-SFT-304
	317	245079	Flush Mounting Plate FI750/MCP FI750/MCP/FMP/R
	318	249377	Reset Key for MCP720/750/PACK10pcs FI720/750/MCP/KEY

245088 Manual Call Point IP67/Red/750 FI750/MCPIP67

The manual call point according to EN 54-11 / type A is accommodated in a red plastic housing and is designed for use on the loop with Labor Strauss protocol. Thanks to its dust and water protected design with protection class IP67, the manual call point is suitable for use under harsh environmental conditions. It is activated by pressing in the plastic pane without breaking it. By means of a special key, the pane can be put back to the idle position, thereby resetting the call point.



The multicoloured LED indicates the activated condition of the device in red, the fault condition in yellow and the loop polling in green. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.

The address of the device can be set in the range 1 to 240 by means of the Programming Unit FI750/PU. In addition, the programming unit allows you to read out parameters such as the default analogue value or the production date. Furthermore, in case of connection to a compatible fire detection control panel, the device can also be AUTO-addressed.

Features:

- Operating instructions in the form of symbols (EN 54-11)
- Activation by pressing in plastic pane without breaking it
- Plastic pane easy to reset
- Surface mounting box and special key included in delivery

Specifications:

Current consumption loop typ.	35 μ A
Relative humidity (no condensation) max.	93 %
Protection class	IP67
Ambient temperature	from -10 °C to 55 °C (no icing)
Dimensions W × H × D	88 × 87 × 73 mm
Weight	225 g
Colour	red
Approval number CPR	2831-CPR-F4471
Approval number LPCB	928h/02

Cross-references	Page	Art.No.	Name Type
	318	245095	Hinged Cover for FI7x0/MCP/PACK10pcs FI720/750/MCP/C-SFT-304
	318	249377	Reset Key for MCP720/750/PACK10pcs FI720/750/MCP/KEY

7.2.3 Modules

249250 Monitor Module 1xIn/700I FI700/M1IN

The monitor module is integrated into a loop with Labor Strauss protocol and provides a line-monitored input for the connection of contact detectors. That makes it easy to integrate manual call points, sprinkler system contacts or supervising contacts into a fire detection system with loop technology. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- Two-coloured status LED for the indication of the alarm condition, the fault condition and optionally the loop polling
- Input monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Installation in module box

Specifications:

Current consumption loop typ.	120 µA (at 24 V)
Current consumption loop max.	6 mA (module LED)
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP21
Ambient temperature	from -30 °C to 70 °C (no icing)
Dimensions L × W × H	87 × 87 × 32 mm
Weight	80 g
Approval number CPR	2797-CPR-697215
Approval number VdS	G 212054

Cross-references	Page	Art.No.	Name Type
	178	249274	Module Box 41mm/700/Knock-out FI700/MBD/KO
	181	249275	Programming Unit FI750 FI750/PU

249251 Control Module 1xOut/700I FI700/M1OUT

The control module is integrated into a loop with Labor Strauss protocol and provides a line-monitored output for the actuation of external devices. That makes it easy to integrate fire doors, sirens or solenoid valves into a fire detection system with loop technology. The connected load is powered by an external power supply. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- Two-coloured status LED indicates the activation of the output and the fault condition
- Output monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Installation in module box

Specifications:

Operating voltage	from 20 VDC to 30 VDC
Current consumption loop typ.	120 µA (at 24 V)
Current consumption loop max.	6 mA (module LED)
Load current per output max.	2 A

Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP21
Ambient temperature	from -30 °C to 70 °C (no icing)
Dimensions L × W × H	87 × 87 × 32 mm
Weight	80 g
Approval number CPR	2797-CPR-697215
Approval number VdS	G 212055

Cross-references	Page	Art.No.	Name Type
	178	249274	Module Box 41mm/700/Knock-out FI700/MBD/KO
	181	249275	Programming Unit FI750 FI750/PU

249252 Control Module 1xRel/700I FI700/M1REL

The control module is integrated into a loop with Labor Strauss protocol and provides a dry relay output for the actuation of external devices. That makes it easy to integrate ancillary devices into a fire detection system with loop technology, without monitoring the line. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- Two-coloured status LED indicates the activation of the output and the fault condition
- Module address can be set in the range 1 to 240 by means of Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Installation in module box

Specifications:

Current consumption loop typ.	120 µA (at 24 V)
Current consumption loop max.	6 mA (module LED)
Contact rating	2 A / 30 VDC or 0.5 A / 125 VAC
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP21
Ambient temperature	from -30 °C to 70 °C (no icing)
Dimensions L × W × H	87 × 87 × 32 mm
Weight	80 g
Approval number CPR	2797-CPR-697215
Approval number VdS	G 212056

Cross-references	Page	Art.No.	Name Type
	178	249274	Module Box 41mm/700/Knock-out FI700/MBD/KO
	181	249275	Programming Unit FI750 FI750/PU

249253 Module 1xIn 1xOut/700I FI700/M1IN1OUT

The monitor and control module is integrated into a loop with Labor Strauss protocol and provides both a line-monitored input for the connection of contact detectors and a line-monitored output for the actuation of external devices. That makes it easy to integrate various devices such as manual call points, supervising contacts, signalling devices or solenoid valves into a fire detection system with loop technology. The load that is connected to the output is powered by an external power supply. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- 2 two-coloured status LEDs indicate the alarm condition of the input, the activation of the output and the fault condition of the input and of the output
- Input and output monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel

- Installation in module box

Specifications:

Operating voltage	from 20 VDC to 30 VDC
Current consumption loop typ.	120 µA (at 24 V)
Current consumption loop max.	6 mA (module LED)
Load current per output max.	2 A
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP21
Ambient temperature	from -30 °C to 70 °C (no icing)
Dimensions L × W × H	87 × 87 × 32 mm
Weight	80 g
Approval number CPR	2797-CPR-697215
Approval number VdS	G 212053

Cross-references	Page	Art.No.	Name Type
	178	249274	Module Box 41mm/700/Knock-out FI700/MBD/KO
	181	249275	Programming Unit FI750 FI750/PU

249254 Module 1xIn 1xRel/700I FI700/M1IN1REL

The monitor and control module is integrated into a loop with Labor Strauss protocol and provides both a line-monitored input for the connection of contact detectors and a dry relay output for the actuation of external devices. That makes it easy to integrate various devices such as manual call points, supervising contacts, signalling devices or solenoid valves into a fire detection system with loop technology. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- 2 two-coloured status LEDs indicate the alarm condition of the input, the activation of the output and the fault condition of the input and of the output
- Input monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Installation in module box

Specifications:

Current consumption loop typ.	120 µA (at 24 V)
Current consumption loop max.	6 mA (module LED)
Contact rating	2 A / 30 VDC or 0.5 A / 125 VAC
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP21
Ambient temperature	from -30 °C to 70 °C (no icing)
Dimensions L × W × H	87 × 87 × 32 mm
Weight	80 g
Approval number CPR	2797-CPR-697215
Approval number VdS	G 212016

Cross-references	Page	Art.No.	Name Type
	178	249274	Module Box 41mm/700/Knock-out FI700/MBD/KO
	181	249275	Programming Unit FI750 FI750/PU

249255 Conventional Zone Module/700I FI700/M1CZ

The conventional zone module is integrated into a loop with Labor Strauss protocol and provides a line-monitored detector line for the connection of conventional detectors. That makes it easy to integrate manual call points or automatic detectors in conventional technology into a fire detection system with loop technology.

The capacitive line termination of the conventional line (default setting) keeps the power consumption of the module low and supports the detection of a wire breakage. Alternatively, a resistive line termination can be set. For resetting special detectors, the conventional zone module provides a dry relay output.

If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop. The module can be powered alternatively through the loop or by an external supply with 24 VDC.



Features:

- Two-coloured status LED for the indication of the alarm condition, the fault condition and optionally the loop polling
- Conventional line monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Integrated in plastic housing for surface mounting

Specifications:

Current consumption loop typ.	500 µA (at 24 V)
Current consumption loop max.	6 mA (module LED)
Contact rating	2 A / 30 VDC
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP54
Ambient temperature	from -30 °C to 70 °C (no icing)
Dimensions L × W × H	135 × 95 × 57 mm
Weight	210 g
Colour	light grey
Approval number CPR	0051-CPR-1584

Cross-references	Page	Art.No.	Name Type
	181	249275	Programming Unit FI750 FI750/PU

249256 Monitor Module Mini 1xIn/700I FI700/MM1IN

The monitor module is integrated into a loop with Labor Strauss protocol and provides a line-monitored input for the connection of contact detectors. That makes it easy to integrate manual call points, sprinkler system contacts or supervising contacts into a fire detection system with loop technology. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.

The monitor module is fitted into a compact case and is designed for mounting in a switch cabinet, on a mounting plate or in an external housing.



Features:

- Two-coloured status LED for the indication of the alarm condition, the fault condition and optionally the loop polling
- Input monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel

Specifications:

Current consumption loop max.	6 mA
Protection class	IP21

Ambient temperature	from -30 °C to 70 °C (no icing)
Dimensions L × W × H	75 × 52 × 30 mm
Weight	70 g
Approval number CPR	2797-CPR-697215
Approval number VdS	G 212118

Cross-references	Page	Art.No.	Name Type
	181	249275	Programming Unit FI750 FI750/PU

249257 Control Module Mini 1xOut/700I FI700/MM1OUT

The control module is integrated into a loop with Labor Strauss protocol and provides a line-monitored output for the actuation of external devices. That makes it easy to integrate fire doors, sirens or solenoid valves into a fire detection system with loop technology. The connected load is powered by an external power supply. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.

The control module is fitted into a compact case and is designed for mounting in a switch cabinet, on a mounting plate or in an external housing.



Features:

- Two-coloured status LED indicates the activation of the output and the fault condition
- Output monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel

Specifications:

Current consumption loop max.	6 mA
Protection class	IP21
Ambient temperature	from -30 °C to 70 °C (no icing)
Dimensions L × W × H	75 × 52 × 30 mm
Weight	70 g
Approval number CPR	2797-CPR-697215
Approval number VdS	G 212119

Cross-references	Page	Art.No.	Name Type
	181	249275	Programming Unit FI750 FI750/PU

249258 Control Module Mini 1xRel/700I FI700/MM1REL

The control module is integrated into a loop with Labor Strauss protocol and provides a dry relay output for the actuation of external devices. That makes it easy to integrate ancillary devices into a fire detection system with loop technology, without monitoring the line. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.

The control module is fitted into a compact case and is designed for mounting in a switch cabinet, on a mounting plate or in an external housing.



Features:

- Two-coloured status LED indicates the activation of the output and the fault condition
- Module address can be set in the range 1 to 240 by means of Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel

Specifications:

Current consumption loop max.	6 mA
Protection class	IP21
Ambient temperature	from -30 °C to 70 °C (no icing)
Dimensions L × W × H	75 × 52 × 30 mm
Weight	70 g

Approval number CPR 2797-CPR-697215
Approval number VdS G 212120

Cross-references	Page	Art.No.	Name Type
	181	249275	Programming Unit FI750 FI750/PU

249259 Module Mini 1xIN 1xOut/700I FI700/MM1IN1OUT

The monitor and control module is integrated into a loop with Labor Strauss protocol and provides both a line-monitored input for the connection of contact detectors and a line-monitored output for the actuation of external devices. That makes it easy to integrate various devices such as manual call points, supervising contacts, signalling devices or solenoid valves into a fire detection system with loop technology. The load that is connected to the output is powered by an external power supply. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



The monitor and control module is fitted into a compact case and is designed for mounting in a switch cabinet, on a mounting plate or in an external housing.

Features:

- 2 two-coloured status LEDs indicate the alarm condition of the input, the activation of the output and the fault condition of the input and of the output
- Input and output monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel

Specifications:

Current consumption loop max.	6 mA
Protection class	IP21
Ambient temperature	from -30 °C to 70 °C (no icing)
Dimensions L × W × H	75 × 52 × 30 mm
Weight	70 g
Approval number CPR	2797-CPR-697215
Approval number VdS	G 212121

Cross-references	Page	Art.No.	Name Type
	181	249275	Programming Unit FI750 FI750/PU

249260 Module Mini 1xIn 1xRel/700I FI700/MM1IN1REL

The monitor and control module is integrated into a loop with Labor Strauss protocol and provides both a line-monitored input for the connection of contact detectors and a dry relay output for the actuation of external devices. That makes it easy to integrate various devices such as manual call points, supervising contacts, signalling devices or solenoid valves into a fire detection system with loop technology. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



The monitor and control module is fitted into a compact case and is designed for mounting in a switch cabinet, on a mounting plate or in an external housing.

Features:

- 2 two-coloured status LEDs indicate the alarm condition of the input, the activation of the output and the fault condition of the input and of the output
- Input monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel

Specifications:

Current consumption loop max.	6 mA
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Protection class	IP21
Ambient temperature	from -30 °C to 70 °C (no icing)
Dimensions L × W × H	75 × 52 × 30 mm
Weight	70 g
Approval number CPR	2797-CPR-697215
Approval number VdS	G 212122

Cross-references	Page	Art.No.	Name Type
	181	249275	Programming Unit FI750 FI750/PU

249289 Module 4xIn 4xRel/700I FI700/M4IN4REL

The multiple monitor and control module is integrated into a loop with Labor Strauss protocol and provides 4 independent line-monitored inputs for the connection of contact detectors as well as four independent dry relay outputs for the actuation of external devices. That makes it easy to integrate various devices such as manual call points, supervising contacts, signalling devices or solenoid valves into a fire detection system with loop technology. The module occupies 8 consecutive addresses on the loop. The base address is set in the range 1 to 240 by means of the Programming Unit FI750/PU. Furthermore, in case of connection to a compatible fire detection control panel, the module can also be AUTO-addressed. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- 2 two-coloured status LEDs for the common indication of the conditions of the inputs and outputs
- Inputs monitored for wire breakage and short circuit
- Plastic housing for surface mounting

Specifications:

Current consumption loop typ.	300 µA
Current consumption loop max.	6 mA
Contact rating	2 A / 30 VDC or 0.5 A / 125 VAC
Relative humidity (no condensation)	from 5 % to 85 %
Protection class	IP65
Ambient temperature	from -30 °C to 70 °C (no icing)
Dimensions L × W × H	210 × 170 × 66 mm
Weight	470 g
Approval number CPR	0051-CPR-1585

Cross-references	Page	Art.No.	Name Type
	181	249275	Programming Unit FI750 FI750/PU

249290 Module 4xIn 2xOut 2xRel/700I FI700/M4IN2OUT2REL

The multiple monitor and control module is integrated into a loop with Labor Strauss protocol and provides 4 independent line-monitored inputs for the connection of contact detectors, two line-monitored outputs as well as two independent dry relay outputs for the actuation of external devices. That makes it easy to integrate various devices such as manual call points, supervising contacts, signalling devices or solenoid valves into a fire detection system with loop technology. The load that is connected to the monitored outputs is powered by an external power supply.



The module occupies 8 consecutive addresses on the loop. The base address is set in the range 1 to 240 by means of the Programming Unit FI750/PU. Furthermore, in case of connection to a compatible fire detection control panel, the module can also be AUTO-addressed. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.

Features:

- 2 two-coloured status LEDs for the common indication of the conditions of the inputs and outputs
- Inputs and monitored outputs are monitored for wire breakage and short circuit
- Plastic housing for surface mounting

Specifications:

Operating voltage	from 20 VDC to 30 VDC
Current consumption loop typ.	300 µA
Current consumption loop max.	6 mA
Load current per output max.	2 A
Contact rating	2 A / 30 VDC or 0.5 A / 125 VAC
Relative humidity (no condensation)	from 5 % to 85 %
Protection class	IP65
Ambient temperature	from -30 °C to 70 °C (no icing)
Dimensions L × W × H	210 × 170 × 66 mm
Weight	470 g
Approval number CPR	0051-CPR-1586

Cross-references	Page	Art.No.	Name Type
	181	249275	Programming Unit FI750 FI750/PU

249291 Module 6xIn 2xRel/700I FI700/M6IN2REL

The multiple monitor and control module is integrated into a loop with Labor Strauss protocol and provides 6 independent line-monitored inputs for the connection of contact detectors as well as two independent dry relay outputs for the actuation of external devices. That makes it easy to integrate various devices such as manual call points, supervising contacts, signalling devices or solenoid valves into a fire detection system with loop technology.

The module occupies 8 consecutive addresses on the loop. The base address is set in the range 1 to 240 by means of the Programming Unit FI750/PU.

Furthermore, in case of connection to a compatible fire detection control panel, the module can also be AUTO-addressed. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- 2 two-coloured status LEDs for the common indication of the conditions of the inputs and outputs
- Inputs monitored for wire breakage and short circuit
- Plastic housing for surface mounting

Specifications:

Current consumption loop typ.	300 µA
Current consumption loop max.	6 mA
Contact rating	2 A / 30 VDC or 0.5 A / 125 VAC
Relative humidity (no condensation)	from 5 % to 85 %
Protection class	IP65
Ambient temperature	from -30 °C to 70 °C (no icing)
Dimensions L × W × H	210 × 170 × 66 mm
Weight	470 g
Approval number CPR	0051-CPR-1587

Cross-references	Page	Art.No.	Name Type
	181	249275	Programming Unit FI750 FI750/PU

7.2.4 Optical and Acoustic Devices

249307 Module FI750I-Sounder-Strobe FI750/M/SST

The control module is used to connect a conventional signalling device CWS/SOUx or CWS/SOUx/STRC to the loop with Labor Strauss protocol. The module is inserted into the bottom of the housing of the signalling device and connected to the loop cable. The connection to the signalling device is made via a connector.

By means of the module, the signalling device can be actuated with two different tones, depending on the parameter setup of the control panel and the system condition. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- Two-coloured status LED for the indication of the activation of the signalling device output and the fault condition
- Module address can be set in the range 1 to 240 by means of Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel

Specifications:

Current consumption loop typ.	30 µA (quiescent)
Current consumption loop max.	17 mA (active, with Sounder-Strobe CWS/SOUx/STRC, high sound level)
Relative humidity (no condensation) max.	85 %
Protection class	IP65 (installed in signalling device)
Ambient temperature	from -10 °C to 55 °C (no icing)
Dimensions L × W × H	82 × 53 × 25 mm
Weight	26 g
Approval number CPR	2831-CPR-F1428 2831-CPR-F1429
Approval number LPCB	928ah/01 928z/01

Cross-references	Page	Art.No.	Name Type
	181	249275	Programming Unit FI750 FI750/PU
	168	355208	Sounder/WM65/DC/red/100 CWS/SOUR
	172	355209	Sounder-Str/WM65/DC/re/cl/wh/100/W CWS/SOUR/STRC
	169	355210	Sounder/WM65/DC/white/100 CWS/SOUW
	173	355211	Sounder-Str/WM65/DC/wh/cl/wh/100/W CWS/SOUW/STRC

355208 Sounder/WM65/DC/red/100 CWS/SOUR

The conventional multitone sounder consists of a round, red plastic housing and is suitable for outdoor and indoor mounting. In combination with the module FI750/M/SST, the sounder can be connected to a loop with Labor Strauss protocol. Alternatively, the sounder can be operated in a wireless fire detection system FI720/RF or FI700/RF by installing the wireless module FI720/RF/M/SST. One of the two modules can be installed into the bottom part of the housing of the sounder.

One of 32 different tone type combinations is selected via DIL switches. Depending on the parameter setup of the control panel and the system condition, this allows the sounder to be actuated with two different tones. In this way, multi-stage alarming with 2 different tones can be implemented. One of four sound levels can be selected by means of two DIL switches.

One of 32 different tone type combinations is selected via DIL switches. Depending on the parameter setup of the control panel and the system condition, this allows the sounder to be actuated with two different tones. In this way, multi-stage alarming with 2 different tones can be implemented. One of four sound levels can be selected by means of two DIL switches.



Features:

- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 970 Hz), 4 of which have been tested according to EN 54-3
- Alternative tone for two-stage alarming possible

- High sound level, 4 levels selectable with DIL switch
- Synchronisation of the sounder tones
- Wide operating voltage range
- Low power consumption, depending on tone type and operating voltage
- Optional theft protection by means of 2 setscrews
- Cable can be entered from the back or from the side

Specifications:

Operating voltage	from 15 VDC to 40 VDC
Current consumption max.	5 mA (at 24 V, high sound level)
Protection class	IP65
Ambient temperature	from -10 °C to 55 °C
Sound level max.	100 dB(A)/1 m
Dimensions Ø × D	130 × 90 mm
Weight	270 g
Colour	red
Approval number CPR	2831-CPR-F1426 (CWS/SOUR) 2831-CPR-F1428 (CWS/SOUR + FI750/M/SST) 0051-CPR-0617 (CWS/SOUR + FI750/RF/M/SST) 928w/07 (CWS/SOUR) 928ah/01 (CWS/SOUR + FI750/M/SST)
Approval number LPCB	

Cross-references	Page	Art.No.	Name Type
	168	249307	Module FI750I-Sounder-Strobe FI750/M/SST
	378	249317	Module/RF/750-Sounder-Strobe FI750/RF/M/SST

355210 Sounder/WM65/DC/white/100 CWS/SOUW

The multitone sounder CWS/SOUW is identical with the Sounder CWS/SOUR, except that it consists of a white plastic housing.

Specifications:

Protection class	IP65
Sound level max.	100 dB(A)/1 m
Dimensions Ø × D	130 × 90 mm
Weight	270 g
Approval number CPR	2831-CPR-F1426 (CWS/SOUW) 2831-CPR-F1428 (CWS/SOUW + FI750/M/SST) 0051-CPR-0617 (CWS/SOUW + FI750/RF/M/SST) 928w/07 (CWS/SOUW) 928ah/01 (CWS/SOUW + FI750/M/SST)
Approval number LPCB	



355202 Sounder/WB/750I/white FI750/WB/MT/SOUW

The loop sounder is actuated and powered via the loop with Labor Strauss protocol. With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. That allows the sounder to be activated with up to 32 different tones and selectable sound level, depending on the parameter setup of the control panel and the system condition. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

With Fire Detection Control Panels Series BC216, 3 different tone types can be activated, the sound level is set with the Programming Unit FI750/PU.

The sounder consists of a white plastic housing and is designed for indoor ceiling mounting. The integrated detector base accommodates an automatic detector Series FI750. The loop address is set in the range 1 to 240 by means of the Programming Unit FI750/PU. Furthermore, in case of connection to a compatible fire detection control panel, the sounder can also be AUTO-addressed. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- 32 different tones selectable (e.g., Slow Whoop tone 500-1200 Hz, DIN tone 1200-500 Hz, continuous tone 1 kHz)
- Low power consumption
- 4 different sound levels selectable

Specifications:

Current consumption loop typ.	70 µA (quiescent)
Current consumption loop max.	5 mA (active)
Protection class	IP21
Ambient temperature	from -30 °C to 70 °C
Sound level max.	93 dB(A)/1 m
Dimensions Ø × H	116 × 50 mm
Weight	180 g
Colour	white
Approval number CPR	2831-CPR-F2540
Approval number VdS	G 217050
Approval number LPCB	928w/05

Cross-references	Page	Art.No.	Name Type
	181	249275	Programming Unit FI750 FI750/PU
	180	359075	Lid for Sounder FI7x0/WB FI720/750/COVER/R
	180	359074	Lid for Sounder FI7x0/WB FI720/750/COVER/W

355212 Sounder/WB/750RI-Slave/white FI750/WBRIS/SOUW

The sounder consists of a white plastic housing and is designed for indoor ceiling mounting. The integrated detector base accommodates an automatic detector Series FI750. The sounder is actuated via the remote indicator output of the inserted detector. In case of connection to a Fire Detection Control Panel Series BC600, the sounder can also be activated by a programmable event. The tone and the sound level are set by means of a DIL switch.



Features:

- 31 tones (e.g., Slow Whoop tone, DIN tone, alternating tone 800/1000 Hz, continuous tone 970 Hz)
- 4 different sound levels selectable
- Low power consumption

Specifications:

Operating voltage	from 16 VDC to 40 VDC
Current consumption max.	3.5 mA (at 24 V, maximum sound level)
Protection class	IP21
Ambient temperature	from -10 °C to 55 °C
Sound level max.	93 dB(A)/1 m
Dimensions Ø × H	128 × 45 mm
Weight	200 g
Colour	white
Approval number CPR	0051-CPR-1197

Cross-references	Page	Art.No.	Name Type
	180	359075	Lid for Sounder FI7x0/WB FI720/750/COVER/R
	180	359074	Lid for Sounder FI7x0/WB FI720/750/COVER/W

355215 Sounder/WB/750RI-Bus/white FI750/WBRIB/SOUW

The sounder consists of a white plastic housing and is designed for indoor ceiling mounting. The integrated detector base accommodates an automatic detector Series FI750.

The sounder is actuated via the remote indicator output of the detector by means of an intelligent bus protocol. In case of connection to a Fire Detection Control Panel Series BC600, the tone type and the sound level are set by the control panel. In addition, an individual event for the activation of the sounder is determined in the parameter setup. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.



Features:

- 31 tones (e.g., Slow Whoop tone, DIN tone, alternating tone 800/1000 Hz, continuous tone 970 Hz) selectable
- 4 different sound levels selectable
- Intelligent actuation via remote indicator output of the detector by means of special protocol
- Low power consumption

Specifications:

Operating voltage	from 16 VDC to 40 VDC
Current consumption max.	3.5 mA (at 24 V, maximum sound level)
Protection class	IP21
Ambient temperature	from -10 °C to 55 °C
Sound level max.	93 dB(A)/1 m
Dimensions Ø × H	128 × 45 mm
Weight	200 g
Colour	white
Approval number CPR	0051-CPR-1197

355201 Sounder/WB/750RI/white FI750/WBRI/MT/SOUW

The sounder consists of a white plastic housing and is designed for indoor ceiling mounting. The integrated detector base accommodates an automatic detector Series FI750. The sounder is actuated via the remote indicator output of the detector. The tone and the sound level are set by means of a DIL switch.



Features:

- 32 tones (e.g., Slow Whoop tone, DIN tone, alternating tone 800/960 Hz, continuous tone 970 Hz, interrupted tone 970 Hz)
- Low power consumption
- 3 different sound levels selectable

Specifications:

Operating voltage	from 15 VDC to 40 VDC
Current consumption max.	9 mA (at 24 V, maximum sound level)
Protection class	IP21
Ambient temperature	from -20 °C to 70 °C
Sound level max.	94 dB(A)/1 m
Dimensions Ø × H	116 × 41 mm
Weight	140 g
Colour	white
Approval number CPR	2831-CPR-F0619
Approval number LPCB	546a/04

Cross-references	Page	Art.No.	Name Type
	180	359075	Lid for Sounder FI7x0/WB FI720/750/COVER/R
	180	359074	Lid for Sounder FI7x0/WB FI720/750/COVER/W

355209 Sounder-Str/WM65/DC/re/cl/wh/100/W CWS/SOUR/STRC

The conventional combined sounder-strobe consists of a round, red plastic housing and is suitable for outdoor and indoor mounting. The signalling device is used if in addition to the acoustic alarming, optical alarming according to EN 54-23 is required. In combination with the module FI750/M/SST, the sounder-strobe can be connected to a loop with Labor Strauss protocol. Alternatively, the sounder-strobe can be operated in a wireless fire detection system FI720/RF or FI700/RF by installing the wireless module FI720/RF/M/SST. One of 32 different tone type combinations is selected via DIL switches. Depending on the parameter setup of the control panel and the system condition, this allows the sounder to be actuated with two different tones. In this way, multi-stage alarming with 2 different tones can be implemented. One of four sound levels can be selected by means of two DIL switches. Thanks to the use of light emitting diodes, the strobe with clear lens and white light has a low current consumption. The optimised design of the lens ensures very high illumination of the room. The strobe has been tested according to EN 54-23 Class W (wall). The strobe can operate alone, for which purpose the tone of the sounder has to be set to „silent“.



Features:

- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 970 Hz), 4 of which have been tested according to EN 54-3
- Alternative tone for two-stage alarming possible
- High sound level, 4 levels selectable with DIL switch
- Very high-performance LEDs
- Synchronisation of the sounder tones and flash pulses
- Wide operating voltage range
- Low power consumption, depending on tone type and operating voltage
- Optional theft protection by means of 2 setscrews
- Cable can be entered from the back or from the side

Specifications:

Operating voltage	from 15 VDC to 40 VDC
Current consumption max.	17 mA (at 24 V, high sound level)
Protection class	IP65
Ambient temperature	from -10 °C to 55 °C
Sound level max.	100 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	W-2.5-7 – wall mounting
Mounting height max.	2.5 m
Illuminated area	7 × 7 m
Dimensions Ø × D	130 × 92 mm
Weight	290 g
Colour	red
Approval number CPR	2831-CPR-F1427 (CWS/SOUR/STRC) 2831-CPR-F1429 (CWS/SOUR/STRC + FI750/M/SST) 0051-CPR-0618 (CWS/SOUR/STRC + FI750/RF/M/SST)
Approval number LPCB	928y/01 (CWS/SOUR/STRC) 928z/01 (CWS/SOUR/STRC + FI750/M/SST)

Cross-references	Page	Art.No.	Name Type
	168	249307	Module FI750I-Sounder-Strobe FI750/M/SST
	378	249317	Module/RF/750-Sounder-Strobe FI750/RF/M/SST

355211 **Sounder-Str/WM65/DC/wh/cl/wh/100/W CWS/SOUW/STRC**

The combined Sounder-Strobe CWS/SOUW/STRC is identical with the signalling device CWS/SOUR/STRC, except that it consists of a white plastic housing.



Specifications:

Protection class	IP65
Sound level max.	100 dB(A)/1 m
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	W-2.5-7 – wall mounting
Mounting height max.	2.5 m
Illuminated area	7 × 7 m
Dimensions Ø × D	130 × 92 mm
Weight	290 g
Approval number CPR	2831-CPR-F1427 (CWS/SOUW/STRC) 2831-CPR-F1429 (CWS/SOUW/STRC + FI750/M/SST) 0051-CPR-0618 (CWS/SOUW/STRC + FI750/RF/M/SST)
Approval number LPCB	928y/01 (CWS/SOUW/STRC) 928z/01 (CWS/SOUW/STRC + FI750/M/SST)

355204 **Sounder-Strobe/WB/750I/wh/cl/re/N FI750/WB/MT/SOUW/STRC**

The loop sounder-strobe is actuated and powered via the loop with Labor Strauss protocol. Depending on the parameter setup of the fire detection control panel and the system condition, the control panel can activate the sounder with tone A, B or C. With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. That allows the sounder to be activated with up to 32 different tones and selectable sound level, depending on the parameter setup of the control panel and the system condition. If several sounder-strobes are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone and light pulse. The strobe is always activated together with the sounder.



With Fire Detection Control Panels Series BC216, 3 different tone types can be activated, the sound level is set with the Programming Unit FI750/PU. The sounder-strobe consists of a white plastic housing and is designed for indoor ceiling mounting. The integrated detector base accommodates an automatic detector Series FI750. The loop address is set in the range 1 to 240 by means of the Programming Unit FI750/PU. Furthermore, in case of connection to a compatible fire detection control panel, the sounder-strobe can also be AUTO-addressed. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.

Features:

- 32 different tones selectable (e.g., Slow Whoop tone 500-1200 Hz, DIN tone 1200-500 Hz, continuous tone 1 kHz)
- Low power consumption
- 4 different sound levels selectable
- Strobe with clear lens and red LEDs

Specifications:

Current consumption loop typ.	70 µA (quiescent)
Current consumption loop max.	8 mA (active)
Protection class	IP21
Ambient temperature	from -30 °C to 70 °C
Sound level max.	93 dB(A)/1 m
Strobe frequency	1 Hz
Colour of lens/cap	clear
Light colour	red
Dimensions Ø × H	142 × 64 mm
Weight	275 g

Colour	white
Approval number CPR	2831-CPR-F2541
Approval number VdS	G 217049
Approval number LPCB	928w/06

Cross-references	Page	Art.No.	Name Type
	181	249275	Programming Unit FI750/FI750/PU
	180	359075	Lid for Sounder FI7x0/WB FI720/750/COVER/R
	180	359074	Lid for Sounder FI7x0/WB FI720/750/COVER/W

355213 Sounder-Str/WB/750RI-Slave/wh/cl/wh/C FI750/WBRIS/SSTWCW

The sounder-strobe consists of a white plastic housing and is designed for indoor ceiling mounting. The integrated detector base accommodates an automatic detector Series FI750.

The signalling device is actuated via the remote indicator output of the detector. In case of connection to a Fire Detection Control Panel Series BC600, the sounder-strobe can also be activated by a programmable event. The tone, the sound level and the flash energy level are set by means of DIL switches. The strobe is activated together with the sounder, but it is also possible to activate only the strobe. The strobe has been tested according to EN 54-23 Class C (ceiling) and O (open class).



Features:

- Strobe with 3 clear lenses and white very high-performance LEDs
- 31 tones (e.g., Slow Whoop tone, DIN tone, alternating tone 800/1000 Hz, continuous tone 970 Hz) and „silent“ mode (only the strobe is activated)
- 4 different sound levels selectable
- 2 different flash energy levels selectable
- Low power consumption

Specifications:

Operating voltage	from 16 VDC to 40 VDC
Current consumption max.	21 mA (at 24 V, maximum sound level)
Protection class	IP21
Ambient temperature	from -10 °C to 55 °C
Sound level max.	93 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	C-3-14.2 – ceiling mounting (high flash energy)
Mounting height max.	3 m
Illuminated area	Ø 14.2 m, equals 10 × 10 m
Category EN 54-23	O-4.6-14.2 – ceiling mounting (high flash energy)
Mounting height max.	4.6 m
Category EN 54-23	C-3-9.2 – ceiling mounting (low flash energy)
Mounting height max.	3 m
Illuminated area	Ø 9.2 m, equals 6.5 × 6.5 m
Dimensions Ø × H	128 × 45 mm
Weight	220 g
Colour	white
Approval number CPR	0051-CPR-1196

Cross-references	Page	Art.No.	Name Type
	180	359075	Lid for Sounder FI7x0/WB FI720/750/COVER/R
	180	359074	Lid for Sounder FI7x0/WB FI720/750/COVER/W

355214 **Sounder-Str/WB/750RI-Slave/wh/cl/re/C FI750/WBRIS/SSTWCR**

The Sounder-Strobe FI750/WBRIS/SSTWCR is identical with the signalling device FI750/WBRIS/SSTWCW, but the strobe contains red high-performance LEDs.

Features:

- Strobe with 3 clear lenses and red very high-performance LEDs

Specifications:

Protection class	IP21
Sound level max.	93 dB(A)/1 m
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	C-3-10.0 – ceiling mounting (high flash energy)
Mounting height max.	3 m
Illuminated area	Ø 10 m, equals 7.1 × 7.1 m
Category EN 54-23	O-1.7-6.0 – ceiling mounting (low flash energy)
Dimensions Ø × H	128 × 45 mm
Weight	220 g
Approval number CPR	0051-CPR-1196

355216 **Sounder-Str/WB/750RI-Bus/wh/cl/wh/C FI750/WBRIB/SSTWCW**

The sounder-strobe consists of a white plastic housing and is designed for indoor ceiling mounting. The integrated detector base accommodates an automatic detector Series FI750.

The sounder-strobe is actuated via the remote indicator output of the detector by means of an intelligent bus protocol. In case of connection to a Fire Detection Control Panel Series BC600, the tone type and the sound level are set by the control panel.

In addition, an individual event for the activation of the signalling device is determined in the parameter setup. If several sounder-strobes are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone and light pulse. The strobe is activated together with the sounder, but it is also possible to activate only the strobe. The strobe has been tested according to EN 54-23 Class C (ceiling) and O (open class).



Features:

- Strobe with 3 clear lenses and white very high-performance LEDs
- 31 tones (e.g., Slow Whoop tone, DIN tone, alternating tone 800/1000 Hz, continuous tone 970 Hz) and „silent“ mode (only the strobe is activated)
- 4 different sound levels selectable
- Intelligent actuation via remote indicator output of the detector by means of special protocol
- 2 different flash energy levels selectable
- Low power consumption

Specifications:

Operating voltage	from 16 VDC to 40 VDC
Current consumption max.	21 mA (at 24 V, maximum sound level)
Protection class	IP21
Ambient temperature	from -10 °C to 55 °C
Sound level max.	93 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	C-3-14.2 – ceiling mounting (high flash energy)
Mounting height max.	3 m
Illuminated area	Ø 14.2 m, equals 10 × 10 m
Category EN 54-23	O-4.6-14.2 – ceiling mounting (high flash energy)
Mounting height max.	4.6 m
Category EN 54-23	C-3-9.2 – ceiling mounting (low flash energy)

Mounting height max.	3 m
Illuminated area	Ø 9.2 m, equals 6.5 × 6.5 m
Dimensions Ø × H	128 × 45 mm
Weight	220 g
Colour	white
Approval number CPR	0051-CPR-1196

355217 **Sounder-Str/WB/750RI-Bus/wh/cl/re/C FI750/WBRIB/SSTWCR**

The sounder-strobe is identical to the signalling device FI750/WBRIB/SSTWCW, except this strobe is equipped with red high-performance LEDs.

Features:

- Strobe with 3 clear lenses and red very high-performance LEDs

Specifications:

Protection class	IP21
Sound level max.	93 dB(A)/1 m
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	C-3-10.0 – ceiling mounting (high flash energy)
Mounting height max.	3 m
Illuminated area	Ø 10 m, equals 7.1 × 7.1 m
Category EN 54-23	O-1.7-6.0 – ceiling mounting (low flash energy)
Dimensions Ø × H	128 × 45 mm
Weight	220 g
Approval number CPR	0051-CPR-1196

7.2.5 Accessories

246086 **Detector Base/750 FI750/B**

The detector base is designed to accommodate intelligent fire detectors Series FI750 for use on loops with Labor Strauss protocol. Its large cable entry opening allows especially easy and time-saving installation. An integrated contact spring ensures the continuous loop connection when the detector is removed. The base is suitable for indoor surface mounting.



Features:

- Screw terminals for secure connection of multiple wires
- Terminal for external remote indicator
- Mechanical theft protection of detector can be activated
- Integrated plastic plate for labelling the detector
- 2 snap-in noses for optional Wago terminals for additional connections

Specifications:

Relative humidity (no condensation)	from 5 % to 95 %
Ambient temperature	from -30 °C to 70 °C
Dimensions Ø × H	110 × 16 mm
Weight	50 g
Colour	white

Cross-references	Page	Art.No.	Name Type
	177	246087	Surface Mounting Kit FI750/FC650/SM

Cross-references	Page	Art.No.	Name Type
	177	246088	Wet Base Shroud FI750/FC650/WB

249279 Detector Base/7500/Heater MH750-1

The detector base with included heating is used for the application of automatic smoke detectors Series FI750 in extremely moist areas (e.g., loading ramps, cable ducts). A detector base with area heater and an installation box with connection terminals and a remote indicator are mounted together on a mounting plate.



Features:

- Connection terminals for all incoming and outgoing cables
- Detector base pre-wired on the terminals
- Additional remote indicator on the installation box

Specifications:

Operating voltage typ.	40 VAC/DC
Power consumption	12 W
Dimensions L × W × H	310 × 175 × 120 mm
Weight	1.3 kg

Cross-references	Page	Art.No.	Name Type
	150	241086	Optical Smoke Detector/750 FI750/O
	312	249014	PSU For Detector Heater MH-TR1
	151	241087	Optical-Thermal Detector/750 FI750/OT
	152	242086	Thermal Detector/750 FI750/T

246087 Surface Mounting Kit FI750/FC650/SM

The white supplement base is needed in addition to the detector bases FC600/BR, FC600/BRD or FI750/B for surface mounting using cable conduits or thick cables. The supplement base is prepared for the use of cable glands M20.



Specifications:

Dimensions Ø × H	117 × 36 mm
Weight	65 g
Colour	white

246088 Wet Base Shroud FI750/FC650/WB

The white supplement base is needed in addition to the detector bases FC600/BR, FC600/BRD or FI750/B if they are mounted in damp locations. The supplement base is prepared for the use of cable glands M20. The supplement base increases the protection class of the detector to IP43.

Note: The theft protection in the detector base must not be activated because the opening for unlocking the detector is not accessible.



Specifications:

Dimensions Ø × H	117 × 65 mm
Weight	92 g
Colour	white

249646 Wet Base Set/FI700/FC600 FI700/FC600/FZ

The wet base set is needed in addition to the supplement bases FI750/FC650/SM and FI750/FC650/WB, if automatic detectors Series FC650 or FI750 are mounted in moist rooms. Two PG screw connections are included in the delivery scope.



Cross-references	Page	Art.No.	Name Type
	177	246087	Surface Mounting Kit FI750/FC650/SM
	177	246088	Wet Base Shroud FI750/FC650/WB

249273 Conduit Adapter for Detector Base FI700/FC600/CA

The conduit adapter facilitates surface cabling of a Detector Base Series FC600 or FI700 (deep version) when using cable conduits with an outer diameter of 20 mm. Prior to installation, the conduit adapter is attached to the detector base.



Cross-references	Page	Art.No.	Name Type
	280	246072	Detector Base/600/Relay FC600/BREL

249293 Silicone Gasket FI750 FI750/SA

The silicone gasket protects a detector base Series FI750 against ingress of moisture from the ceiling. In addition, the seal levels out the unevenness of the ceiling. The silicone gasket is inserted between the detector base and the ceiling.



Cross-references	Page	Art.No.	Name Type
	176	246086	Detector Base/750 FI750/B

249274 Module Box 41mm/700/Knock-out FI700/MBD/KO

The module box is designed for surface mounting of a Series FI700 module in case of surface cabling by means of cable conduits or thick cables. The module box is delivered with 2 grommets. Alternatively, cable glands M20 can be used.



Specifications:

Dimensions L × W × H

87 × 87 × 41 mm

244080 Duct Detector Housing/750 FI750/DDH-2

The duct detector monitors ventilation ducts or air conditioning channels. A small amount of air is conducted into the detector housing via the combined air inlet and air escape pipe, directed to a smoke detector, and is released again into the ventilation duct. An Optical Smoke Detector Series FI750 can be installed in the duct detector housing.

Note: If the installed base FI750/B is replaced by a Detector Base FC600/BR, the duct detector can also be used with a detector Series FC650. For the adaptation to the ventilation duct, 3 air inlet pipes with lengths of 0.6 m, 1.5 m and 2.8 m are available.



Features:

- Transparent cover for optical recognition of detector activation
- Easy installation thanks to combined air inlet and air escape pipe

Specifications:

Protection class	IP54
Air velocity	from 0.5 m/s to 20 m/s
Dimensions L × W × H	279 × 165 × 83 mm
Weight	660 g
Colour	grey

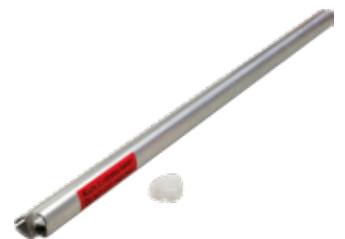
Cross-references	Page	Art.No.	Name Type
	180	244055	Gasket for Duct Detector Pipe FI750/DDH204
	179	244081	Duct Detector Pipe/750/-0.6m FI750/DDH-2/TV-0,6
	179	244082	Duct Detector Pipe/750/-1.5m FI750/DDH-2/TV-1,5
	179	244083	Duct Detector Pipe/750/-2.8m FI750/DDH-2/TV-2,8
	180	244084	Duct Detector Bracket FI750/DDH-2/BRA-UG-MB-75
	150	241086	Optical Smoke Detector/750 FI750/O
	280	246070	Detector Base/600 FC600/BR

244081 Duct Detector Pipe/750/-0.6m FI750/DDH-2/TV-0,6

The combined air inlet and air escape pipe is designed for use with the Duct Detector Housing FI750/DDH-2 and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of up to 0.6 m and can be cut to the desired length.

Specifications:

Dimensions L × W × H	600 × 23 × 30 mm
Weight	340 g
Material	aluminium



244082 Duct Detector Pipe/750/-1.5m FI750/DDH-2/TV-1,5

The combined air inlet and air escape pipe is designed for use with the Duct Detector Housing FI750/DDH-2 and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of between 0.6 m and 1.4 m and can be cut to the desired length.

Specifications:

Dimensions L × W × H	1500 × 23 × 30 mm
Weight	840 g
Material	aluminium



244083 Duct Detector Pipe/750/-2.8m FI750/DDH-2/TV-2,8

The combined air inlet and air escape pipe is designed for use with the Duct Detector Housing FI750/DDH-2 and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of between 1.4 m and 2.7 m and can be cut to the desired length.

Specifications:

Dimensions L × W × H	2800 × 23 × 30 mm
Weight	1.6 kg
Material	aluminium



244084 Duct Detector Bracket FI750/DDH-2/BRA-UG-MB-75

The duct detector bracket allows the easy mounting of a Duct Detector Housing FI750/DDH-2 under special conditions of use, if mounting the housing directly on the ventilation duct is not possible or is more difficult. This applies, for example, to ventilation ducts

- with circular cross section,
- with small diameter (100 mm or more) or
- with a jacket made of insulating material.



By means of three fold-out sheet metal strips, which can be bent into the required shape according to the application, the bracket with the detector is attached to the ventilation duct. The delivery scope includes a pipe sleeve for sealing the sensor pipe that is located outside of the ventilation duct as well as a gasket FI700/DDH204. If the air inlet and air escape pipe is so long that it protrudes on the opposite side of the ventilation duct, a second gasket is needed. It must be ordered separately.

The mounting distance of the detector from the ventilation duct can be up to 140 mm.

Specifications:

Dimensions L × W	213 × 140 mm (folded up)
Weight with gasket and pipe sleeve	390 g

Cross-references	Page	Art.No.	Name Type
	180	244055	Gasket for Duct Detector Pipe FI750/DDH204

244055 Gasket for Duct Detector Pipe FI750/DDH204

The gasket for the air inlet and air escape pipe of the Duct Detector FI750/DDH-2 is needed

- if the duct detector housing is installed with the Duct Detector Bracket FI750/DDH-2/BRA, or
- if the air inlet and air escape pipe is so long that it protrudes on the opposite side of the ventilation duct.



Note: The Duct Detector Bracket FI750/DDH-2/BRA is delivered with one gasket.

359075 Lid for Sounder FI7x0/WB FI720/750/COVER/R

The red cover plate is used to cover and protect a detector base sounder Series FI750 or a wireless detector base sounder Series FI720/RF if no detector is inserted.

Specifications:

Dimensions Ø × H	106 × 10 mm
Weight	20 g
Colour	red



359074 Lid for Sounder FI7x0/WB FI720/750/COVER/W

The white cover plate is used to cover and protect a detector base sounder Series FI750 or a wireless detector base sounder Series FI720/RF if no detector is inserted. However, the cover can also be used to protect a detector base Series FI750 if the detector has been permanently removed.

Specifications:

Dimensions Ø × H	106 × 10 mm
Weight	20 g



Colour

white

249275 Programming Unit FI750 FI750/PU

By means of the programming unit, the physical loop address of detectors Series FI750 and modules Series FI700 is set. In connection with conventional detectors Series FC650, the thermal class of a Thermal Detector FC650/T or the function of the status LED can be set. In addition, significant parameters of a detector Series FI750 or module Series FI700 or detector Series FC650, such as the device type, the default analogue value, the production date or the level of contamination of an optical smoke detector, can be read out and indicated on the display of the unit.

The programming unit has an integrated detector base for the accommodation of an automatic detector as well as the cables for the connection of a manual call point, module or base sounder. The desired loop address is selected by means of two arrow keys and programmed into the inserted detector or into the connected module by pressing the confirmation button.



Specifications:

Energy supply
Battery lifespan

1 block battery 9 V
approx. 4 years (unit switched off)
approx. 30 hours (unit switched on permanently)

Dimensions L × W × H
Weight (incl. battery)

210 × 115 × 68 mm
310 g

249272 Programming Unit FI700 FI700/PU

By means of the programming unit, the physical loop address of detectors and modules Series FI700 is set. In connection with conventional detectors Series FC650, the thermal class of a Thermal Detector FC650/T or the function of the status LED can be set. In addition, significant parameters of a detector or module Series FI700 or a detector Series FC650, such as the device type, the default analogue value, the production date or the level of contamination of an optical smoke detector, can be read out and indicated on the display of the unit. The programming unit has an integrated detector base for the accommodation of an automatic detector as well as the cables for the connection of a manual call point, module or base sounder. The desired loop address is selected by means of two arrow keys and programmed into the inserted detector or into the connected module by pressing the confirmation button.



Specifications:

Energy supply
Battery lifespan

1 block battery 9 V
approx. 4 years (unit switched off)
approx. 30 hours (unit switched on permanently)

Dimensions L × W × H
Weight (incl. battery)

210 × 115 × 68 mm
310 g

7.3 Series 200AP

The fire detection system Series 200-Advanced comprises manual and automatic fire detectors, modules and signalling devices, which are connected to the fire detection control panel in loop technology and communicate by means of the System Sensor protocol. Most devices are provided with an integrated dual-isolator. If necessary, detectors without isolator can be inserted in a base with dual-isolator.

7.3.1 Automatic Detectors

241999 Detector Series 200AP, Overview

The Detector Series 200AP includes a range of automatic fire detectors which represent the latest state of the fire alarm technology. The detectors are connected to a Fire Detection Control Panel Series BC600 or Series BC216 via the loop with System Sensor protocol. Thanks to the extended address range, up to 159 detectors and 159 modules can be addressed.

The electronics of the detectors are reliably protected against harmful environmental impact by means of sealing lips or through encapsulation.

Most types of detectors are available either with or without integrated dual-isolator. If a short circuit occurs on the loop line, the dual-isolator will disconnect the loop. Thus, only the loop elements in the faulty line section that is cut off from the loop by isolators, are affected in their function.

The detectors are accommodated in the Detector Base B501AP. A Detector Base B501 can be used, but in the case of detectors with integrated isolator, the isolator does not work.

Type of Detector	With Isolator		Without Isolator	
	Part No.	Type	Part No.	Type
Optical Smoke Detector	241110	ND22051EI	241111	ND22051E
Optical/Thermal Detector	241116	DV22051TEI	241117	DV22051TE
Rate of Rise Heat Detector 58°C, A1R	242110	52051REI	242111	52051RE
Maximum Heat Detector 58°C, A1S	242112	52051EI	242113	52051E
Maximum Heat Detector 78°C, BS	242114	52051HTEI	242115	52051HTE
3-Criteria Detector PTIR	241118	22051TLEI	241119	22051TLE
4-Criteria Detector COPTIR	---	---	241120	2251CTLE
Laser Smoke Detector	241123	72051EI	---	---

Features:

- Terminal for external remote indicator
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP

241110 Optical Smoke Detector/200API ND22051EI

The optical smoke detector operates with an optical sensing chamber based on the principle of scattered light. The new design of the chamber ensures optimum smoke detection and, at the same time, makes it more difficult for dust and insects to reach the chamber. The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Intelligent evaluation algorithms in the respective LST fire detection control panels compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – another effective measure for preventing false alarms.

Features:

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Insect screen
- Function can be tested with magnet
- Terminal for external remote indicator
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Current consumption loop typ.	270 µA
Relative humidity (no condensation)	from 10 % to 93 %
Protection class	IP40
Protection class	IP43 (with Wet Base Shroud WB-1AP)
Ambient temperature	from -30 °C to 70 °C
Sensitivity opt. sensor	Level 1: 3.0 %/m Level 2: 3.3 %/m Level 3: 3.7 %/m
Dimensions Ø × H	102 × 40 mm
Weight	97 g
Colour	white
Approval number CPR	0786-CPR-20652
Approval number VdS	G 209015

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP

241111 Optical Smoke Detector/200AP ND22051E

The design of the Optical Smoke Detector ND22051E is identical with that of the Optical Smoke Detector ND22051EI, but the ND22051E is not equipped with a dual-isolator which disconnects the loop.

Features:

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Insect screen
- Function can be tested with magnet

Specifications:

Sensitivity opt. sensor	Level 1: 3.0 %/m Level 2: 3.3 %/m Level 3: 3.7 %/m
Dimensions Ø × H	102 × 40 mm
Weight	97 g
Approval number CPR	0786-CPR-20658
Approval number VdS	G 209021

241123 Optical Laser Smoke Detector/200API 72051EI

The optical laser smoke detector operates with an optical sensing chamber based on the laser light principle. The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.

Thanks to the **high response sensitivity**, this detector can be used to realise a wide range of special tasks, common optical smoke detectors cannot cope with. The individual response sensitivity of the detector is set through the fire detection control panel to one of nine levels between 0.03 %/m and 3.3 %/m, depending on the detection task. An optional pre-alarm can be activated two levels before reaching the alarm threshold. The detector is ideal for early fire detection in sensitive areas, in smoke aspiration systems as well as when combined with extinguishing systems. Thanks to the special characteristics of the sensing chamber, the detector is very insensitive to contamination, and therefore it is also suitable for areas with increased dust formation.

Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – an effective measure for preventing false alarms.



Features:

- Insect screen
- Function can be checked through test activation with magnet
- Terminal for external remote indicator
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Current consumption loop typ.	300 µA
Relative humidity (no condensation)	from 10 % to 93 %
Protection class	IP40
Protection class	IP43 (with Wet Base Shroud WB-1AP)
Ambient temperature	from -10 °C to 55 °C
Air velocity	from 0 m/s to 20 m/s
Dimensions Ø × H	102 × 49 mm
Weight	125 g
Colour	white
Approval number CPR	2831-CPR-F2556
Approval number VdS	G 219061
Approval number LPCB	199ab/02

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP

241116 Optical-Thermal Detector/200API DV22051TEI

The optical-thermal detector contains both an optical sensing chamber based on the principle of scattered light and a thermocouple for the detection of heat. The new design of the optical chamber ensures optimum smoke detection and, at the same time, makes it more difficult for dust and insects to reach the chamber. The rate-of-rise temperature sensor complies with EN 54-5 Class A1R. The analysis of the analogue values of both detection units and the integrated comparison of characteristics of fire ensure safe fire detection.

The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop. The response sensitivity of the optical sensor can be individually adjusted by selecting one of five levels between 2.2 %/m and 5.8 %/m, depending on the detection task. Three levels have a fixed sensitivity, two levels are provided with an automatic sensitivity regulation. This allows the detector to ideally adapt to the ambient conditions. A thermal-only operation of the detector is also possible. In this mode, the detector



can only be used up to a room height of 7.5 m.

Intelligent evaluation algorithms in the respective LST fire detection control panels compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – another effective measure for preventing false alarms.

Features:

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Insect screen
- Function can be tested with magnet
- Terminal for external remote indicator
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Current consumption loop typ.	270 µA
Relative humidity (no condensation)	from 10 % to 93 %
Protection class	IP20
Protection class	IP23 (with Wet Base Shroud WB-1AP)
Ambient temperature	from -30 °C to 70 °C
Application temperature max.	50 °C
Alarm temperature max.	58 °C
Dimensions Ø × H	102 × 49 mm
Weight	99 g
Colour	white
Approval number CPR	0786-CPR-20651
Approval number VdS	G 209014

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP

241117 Optical-Thermal Detector/200AP DV22051TE

The design of the Optical-Thermal Detector DV22051TE is identical with that of the Optical-Thermal Detector DV22051TEI, but the DV22051TE is not equipped with a dual-isolator which disconnects the loop.

Features:

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Insect screen
- Function can be tested with magnet

Specifications:

Application temperature max.	50 °C
Alarm temperature max.	58 °C
Dimensions Ø × H	102 × 49 mm
Weight	99 g
Approval number CPR	0786-CPR-20657
Approval number VdS	G 209020

241118 Multicriteria Detector PTIR/200API 22051TLEI

The multi-criteria detector contains three separate detection units for three characteristics of fire: smoke, temperature and infrared radiation. It has been approved according to EN 54-29, EN 54-7, EN 54-5 and EN 54-17. The optical smoke sensor is based on the principle of scattered light and detects visible smoke particles. The thermal unit reacts to temperature changes within defined periods of time (rate-of-rise principle according to Class A1R) as well as to a maximum temperature of 60 °C. The infrared sensor detects the infrared signature of flames and supports the detection of fires with little smoke formation (e.g., alcohol fire).



Through an intelligent analysis of the measured values obtained from all three detection units, the typical fire patterns are detected. Thereby, on the one hand, deceptive alarms can be almost entirely excluded when noise levels occur (caused for example by welding or a dusty environment). On the other hand, a real fire is quickly and reliably detected. Because of its characteristics, the detector is an optimum replacement for ionisation smoke detectors. Its response behaviour is similar to that of ionisation detectors, but in contrast to ionisation detectors, the strict radiation protection regulations do not apply to this detector, and it does not cause the high disposal costs.

The response sensitivity of the optical sensor can be individually adjusted by selecting one of five levels between 2.5 %/m and 5.6 %/m, depending on the detection task. The alarm activation is accelerated or delayed by the sophisticated evaluation of the measured values obtained from all sensors. A thermal-only operation is also possible.

Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the optical sensor is kept constant for a long time – another effective measure for preventing false alarms.

The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting. In the thermal-only mode the detector must not be used if the room height exceeds 7.5 m. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.

Features:

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Insect screen
- Function can be tested with magnet or detector test device
- Terminal for external remote indicator
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Current consumption loop typ.	270 µA
Relative humidity (no condensation)	from 15 % to 90 %
Protection class	IP20
Ambient temperature	from -30 °C to 70 °C
Application temperature max.	50 °C
Alarm temperature max.	60 °C
Dimensions Ø × H	102 × 51 mm
Weight	100 g
Colour	white
Approval number CPR	0786-CPR-20650
Approval number VdS	G 209013
Approval number LPCB	199aa/01

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP

241119 Multicriteria Detector PTIR/200AP 22051TLE

The design of the Multicriteria Detector 22051TLE is identical with that of the Multicriteria Detector 22051TLEI, but the 22051TLE is not equipped with a dual-isolator which disconnects the loop.

Features:

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Insect screen
- Function can be tested with magnet or detector test device

Specifications:

Application temperature max.	50 °C
Alarm temperature max.	60 °C
Dimensions Ø × H	102 × 51 mm
Weight	100 g
Approval number CPR	0786-CPR-20656
Approval number VdS	G 209019

241120 Multicriteria Detector COPTIR/200AP 2251CTLE-W

The multi-criteria detector contains **four separate detection units** for the four essential characteristics of fire: smoke, temperature, carbon monoxide and infrared radiation. The optical smoke sensor is based on the principle of scattered light and detects visible smoke particles. The thermal unit reacts to temperature changes within defined periods of time (rate-of-rise principle according to Class A1R) as well as to a maximum temperature of 60 °C. By means of the long-living carbon monoxide sensor, even slowly developing smouldering fires can be safely detected. The infrared sensor reacts to the infrared signature of flames and supports the detection of fires with little smoke formation (e.g., alcohol fire). Through an intelligent analysis of the measured values obtained from all four detection units, the typical fire patterns are detected. Thereby, on the one hand, deceptive alarms can be almost entirely excluded when noise levels occur (caused for example by welding or a dusty environment). On the other hand, a real fire is quickly and reliably detected. The detector is therefore highly resistant to external influences and can effectively be used in virtually any environmental conditions.



The response sensitivity of the optical sensor can be individually adjusted by selecting one of five levels between 1.6 %/m and 6.0 %/m, depending on the detection task. The alarm activation is accelerated or delayed by the sophisticated evaluation of the measured values obtained from all sensors. A thermal-only operation is also possible.

Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the optical sensor is kept constant for a long time – another effective measure for preventing false alarms.

The carbon monoxide sensor has, with 6 years, a long lifespan. The upcoming end of the life span can be read out on the fire detection control panel during maintenance. The end of the lifespan is indicated by a fault message.

The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting. Please note that in the thermal only mode, the device must not be used if the room height exceeds 7.5 m.

Features:

- Sealed electronics prevent false alarms caused by the environment
- Two LEDs with 360° visibility indicate the activation condition
- Function can be tested with magnet or detector test device
- Insect screen
- Terminal for external remote indicator
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Current consumption loop typ.	300 µA
Relative humidity (no condensation)	from 15 % to 90 %
Protection class	IP20
Ambient temperature	from -20 °C to 55 °C
Application temperature max.	50 °C
Alarm temperature max.	60 °C
Dimensions Ø × H	102 × 60 mm
Weight	130 g
Colour	white
Approval number CPR	2831-CPR-F0693
Approval number VdS	G 207054

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP

242110 Thermal RoR Detector/200API/A1R 52051REI

The thermal rate-of-rise detector reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 58 °C according to EN 54-5, Class A1R. The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting up to a maximum room height of 7.5 m. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Function can be tested with magnet
- Terminal for external remote indicator
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Current consumption loop typ.	240 µA
Relative humidity (no condensation)	from 10 % to 93 %
Protection class	IP20
Protection class	IP23 (with Wet Base Shroud WB-1AP)
Ambient temperature	from -30 °C to 80 °C
Application temperature max.	50 °C
Alarm temperature	58 °C
Dimensions Ø × H	102 × 49 mm
Weight	88 g
Colour	white
Approval number CPR	0786-CPR-20655
Approval number VdS	G 209018
Approval number LPCB	199ac/03

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP

242111 Thermal RoR Detector/200AP/A1R 52051RE

The design of the Thermal RoR Detector 52051RE is identical with that of the Thermal RoR Detector 52051REI, but the 52051RE is not equipped with a dual-isolator which disconnects the loop.

Features:

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Function can be tested with magnet

Specifications:

Application temperature max.	50 °C
Alarm temperature	58 °C
Dimensions Ø × H	102 × 49 mm
Approval number CPR	0786-CPR-20661
Approval number VdS	G 209024
Approval number LPCB	199n/15

242112 Thermal Max Detector/200API/A1S 52051EI

The maximum heat detector reacts to a maximum temperature of 58 °C according to EN 54-5, Class A1S. The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting up to a maximum room height of 7.5 m. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Function can be tested with magnet
- Terminal for external remote indicator
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Current consumption loop typ.	240 µA
Relative humidity (no condensation)	from 10 % to 93 %
Protection class	IP20
Protection class	IP23 (with Wet Base Shroud WB-1AP)
Ambient temperature	from -30 °C to 80 °C
Application temperature max.	50 °C
Alarm temperature	58 °C
Dimensions Ø × H	102 × 49 mm
Weight	88 g
Colour	white
Approval number CPR	0786-CPR-20653
Approval number VdS	G 209016
Approval number LPCB	199ac/01

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP

242113 Thermal Max Detector/200AP/A1S 52051E

The design of the Thermal Max Detector 52051E is identical with that of the Thermal Max Detector 52051EI, but the 52051E is not equipped with a dual-isolator which disconnects the loop.

Features:

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Function can be tested with magnet

Specifications:

Application temperature max.	50 °C
Alarm temperature	58 °C
Dimensions Ø × H	102 × 49 mm
Weight	88 g
Approval number CPR	0786-CPR-20659
Approval number VdS	G 209022
Approval number LPCB	199n/17

242114 Thermal Max Detector/200API/BS 52051HTEI

The maximum heat detector reacts to a maximum temperature of 78 °C according to EN 54-5, Class BS. The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting up to a maximum room height of 6 m. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Function can be tested with magnet
- Terminal for external remote indicator
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Current consumption loop typ.	240 µA
Relative humidity (no condensation)	from 10 % to 93 %
Protection class	IP20
Protection class	IP23 (with Wet Base Shroud WB-1AP)
Ambient temperature	from -30 °C to 80 °C
Application temperature max.	65 °C
Alarm temperature	78 °C
Dimensions Ø × H	102 × 49 mm
Weight	88 g
Colour	white
Approval number CPR	0786-CPR-20654
Approval number VdS	G 209017
Approval number LPCB	199ac/02

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP

242115 Thermal Max Detector/200AP/BS 52051HTE

The design of the Thermal Max Detector 52051HTE is identical with that of the Thermal Max Detector 52051HTEI, but the 52051HTE is not equipped with a dual-isolator which disconnects the loop.

Features:

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Function can be tested with magnet

Specifications:

Application temperature max.	65 °C
Alarm temperature	78 °C
Dimensions Ø × H	102 × 49 mm
Weight	88 g
Approval number CPR	0786-CPR-20660
Approval number VdS	G 209023
Approval number LPCB	199n/16

7.3.2 Manual Call Points

240402 MCP/red/200AP HME/3000/25/H1/02

The manual call point according to EN 54-11 / type B in the aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the System Sensor protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button.



Features:

- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Button in combination with LED for setting the address from 1 to 159
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	110 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	flame red, RAL 3000
Approval number CPR	0786-CPR-21597
Approval number VdS	G 218053

Cross-references	Page	Art.No.	Name Type
	314	249633	Protective Cover V2A for MCP/Red WG/ROT-E-1
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240118 MCP/red/200AP/FEUER HME/3000/25/52/02/IP65

As regards the function and cross-references, this red manual call point is identical to the Manual Call Point HME/3000/25/H1/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Features:

- Changeable door label with house symbol + „FEUER“, with house symbol on the reverse



Specifications:

Protection class	IP65 (without protection kit)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	450 g
Approval number CPR	0786-CPR-21597
Approval number VdS	G 218053

240422 MCP/blue/200AP/HAUSALARM HME/5015/25/02/02

The manual call point in the blue aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the System Sensor protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button.



Features:

- Door label „HAUSALARM“, replaceable
- Latching (default) or non-latching push button
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Button in combination with LED for setting the address from 1 to 159
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optionally available with protection class IP65
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	110 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	sky blue, RAL 5015

Cross-references	Page	Art.No.	Name Type
	314	249634	Protective Cover V2A for MCP/blue WG/BLAU-E-1
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240162 MCP/blue/200AP/HAUSALARM HME/5015/25/02/02/IP65

As regards the function and cross-references, this blue manual call point is identical to the Manual Call Point HME/5015/25/02/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Features:

- Door label „HAUSALARM“, replaceable
- Latching (default) or non-latching push button
- 2 cable glands M20 × 1.5 mm, 1 dummy cable gland

Specifications:

Protection class	IP65 (without protection kit)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	450 g



240432 MCP/yellow/200AP/HANDAUSLÖS. HME/1021/25/17/02

The manual call point in the yellow aluminium die-cast design housing operates as electrical activation device for extinguishing systems using gaseous or other extinguishing agents and is implemented in loop technology. For the bi-directional loop communication, the System Sensor protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to the standards EN 54-17 and EN 12094-3.



Features:

- Changeable door label „HANDAUSLÖSUNG Gaslöschanlage“ according to EN 12094-3, with „HANDAUSLÖSUNG Feuerlöschanlage“ according to VdS 2496 on the reverse
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Button in combination with LED for setting the address from 1 to 159
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	110 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	rape yellow, RAL 1021
Approval number CPR	0786-CPR-21598
Approval number VdS	G 218054

Cross-references	Page	Art.No.	Name Type
	314	249636	Protective Cover V2A for MCP/yellow WG/GELB-E-1
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240119 MCP/yellow/200AP/HANDAUSLÖS. HME/1021/25/17/02/IP65

As regards the function and cross-references, this yellow manual call point is identical to the Manual Call Point HME/1021/25/17/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Features:

- Changeable door label „HANDAUSLÖSUNG Gaslöschanlage“ according to EN 12094-3, with „HANDAUSLÖSUNG Feuerlöschanlage“ according to VdS 2496 on the reverse
- 2 cable glands M20 × 1.5 mm, 1 dummy cable gland

Specifications:

Protection class	IP65 (without protection kit)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	450 g



Approval number CPR
 Approval number VdS

 0786-CPR-21598
 G 218054

240442 MCP/blue/200AP/STOPP HME/5015/25/18/02

The manual call point in the blue aluminium die-cast design housing operates as electrical emergency hold device for extinguishing systems using gaseous or other extinguishing agents and is implemented in loop technology. For the bi-directional loop communication, the System Sensor protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to the standards EN 54-17 and EN 12094-3.



Features:

- Door label „STOPP-TASTER Gaslöschanlage“, replaceable
- Non-latching push button
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Button in combination with LED for setting the address from 1 to 159
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optionally available with protection class IP65
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	110 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	sky blue, RAL 5015
Approval number CPR	0786-CPR-21599
Approval number VdS	G 218055

Cross-references	Page	Art.No.	Name Type
	314	249634	Protective Cover V2A for MCP/blue WG/BLAU-E-1
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240163 MCP/blue/200AP/STOPP HME/5015/25/18/02/IP65

As regards the function and cross-references, this blue manual call point is identical to the Manual Call Point HME/5015/25/18/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Features:

- Door label „STOPP-TASTER Gaslöschanlage“, replaceable
- 2 cable glands M20 × 1.5 mm, 1 dummy cable gland
- Non-latching push button

Specifications:

Protection class	IP65 (without protection kit)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	450 g
Approval number CPR	0786-CPR-21599
Approval number VdS	G 218055



240495 MCP/green/200AP/AUSL.BFS HME/6002/25/29/02

The manual call point in the green aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the System Sensor protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button.

Depending on which side of the replaceable door label that has text printed on both sides is visible, the manual call point can be used for the following functions:

- Door label „Auslösung Brandfallsteuerungen“ (delivery condition): The manual call point is required according to ÖNORM F 3001 for manually overriding fire controls. The device is to be connected to the fire control panel.
- Door label „Aufzug Brandfallsteuerung“ (reverse): The manual call point is required according to TRVB S 111 for actuating lifts in the event of fire. The device is to be connected to the lift control or – if the building is equipped with a fire detection system – to the fire control panel.

Features:

- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Button in combination with LED for setting the address from 1 to 159
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	110 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	leaf green, RAL 6002



Cross-references	Page	Art.No.	Name Type
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	315	249694	Protective Cover V2A for MCP/green WG/GRÜN-E-1

Cross-references	Page	Art.No.	Name Type
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240821 MCP/orange/200AP/Rauchabzug HME/2011/25/45/02

The manual call point in the orange aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the System Sensor protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The manual call point is used for the actuation of smoke venting systems. The call point is activated by breaking the glass pane and pressing the button.



Features:

- Door label „Rauchabzug“, replaceable
- Latching (default) or non-latching push button
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Button in combination with LED for setting the address from 1 to 159
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optionally available with protection class IP65
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	110 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	deep orange, RAL 2011

Cross-references	Page	Art.No.	Name Type
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	315	249691	Protective Cover V2A for MCP/orange WG/ORANGE-E-1
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240793 MCP/white/200AP/NOTFALL HME/1013/25/40/00

The manual call point in the white aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the System Sensor protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button.

The manual call point is designed for connection to an emergency and danger response system according to VDE 0827-1 and is used if quick alarming of the helping forces is required.



Features:

- Blue user interface with operating instructions in the form of white symbols (EN 54-11)
- Door label „NOTFALL“, replaceable, optionally „POLIZEI-NOTRUF“
- Latching (default) or non-latching push button

- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Button in combination with LED for setting the address from 1 to 159
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optionally available with protection class IP65
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	110 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	oyster white, RAL 1013

Cross-references	Page	Art.No.	Name Type
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

245041 Manual Call Point/Red/200API/Glass MCP5A-RP08FG

The manual call point according to EN 54-11 / type A is accommodated in a red plastic housing. It is activated by breaking the glass pane. The detector is designed for use on the loop with System Sensor protocol and contains a dual-isolator which disconnects the loop in the event of a short circuit on the loop line.

The manual call point can be mounted on a 60 mm flush-mount installation box. An optional case for surface mounting on a wall can be supplied.



Features:

- Activation by breaking the glass plate
- Easy to replace glass plate
- Operating instructions in the form of symbols (EN 54-11)
- Call point housing can be opened only with a special key (included)
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Current consumption loop typ.	360 µA
Relative humidity (no condensation) max.	95 %
Protection class	IP24
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	89 × 93 × 28 mm
Weight	110 g
Colour	red
Approval number CPR	2831-CPR-F1739
Approval number LPCB	166e/02

Cross-references	Page	Art.No.	Name Type
	318	245024	Hinged Cover for MCP/WCP PS200
	319	245048	Reset Key for MCP5A/PACK10pcs SC070
	318	245019	Surface Mount Box/MCP5A SR
	318	245012	Surface Mount Box/MCP5A SR3T

245043 Manual Call Point/Red/200API/Flexi MCP5A-RP08FF

The manual call point according to EN 54-11 / type A is accommodated in a red plastic housing. It is activated by pressing in the plastic pane without breaking it. By means of a special key, the pane can be put back to the idle position, thereby resetting the call point. The device is designed for use on the loop with System Sensor protocol and contains a dual-isolator which disconnects the loop in the event of a short circuit on the loop line. The manual call point can be mounted on a 60 mm flush-mount installation box. An optional case for surface mounting on a wall can be supplied.



Features:

- Activation by pressing in plastic pane without breaking it
- Plastic pane easy to reset
- Operating instructions in the form of symbols (EN 54-11)
- Call point housing can be opened only with a special key (included)
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Current consumption loop typ.	360 μ A
Relative humidity (no condensation) max.	95 %
Protection class	IP24
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	89 × 93 × 28 mm
Weight	110 g
Colour	red
Approval number CPR	0832-CPD-0831
Approval number LPCB	166e/01

Cross-references	Page	Art.No.	Name Type
	318	245024	Hinged Cover for MCP/WCP PS200
	319	245048	Reset Key for MCP5A/PACK10pcs SC070
	318	245019	Surface Mount Box/MCP5A SR
	318	245012	Surface Mount Box/MCP5A SR3T

245045 Man.Call Point/red/IP67/200API/Glass WCP5A/RP08SG-L017-01

The manual call point according to EN 54-11 / type A is integrated in a red plastic housing for surface mounting, and thanks to its dust and water protected design with protection class IP67, it is suitable for use under harsh environmental conditions. It is activated by breaking the glass pane. The device is designed for use on the loop with System Sensor protocol and contains a dual-isolator which disconnects the loop in the event of a short circuit on the loop line.



Features:

- Activation by breaking the glass plate
- Easy to replace glass plate
- Operating instructions in the form of symbols (EN 54-11)
- Call point housing can be opened only with a special key (included)
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Current consumption loop typ.	360 μ A
Relative humidity (no condensation) max.	95 %
Protection class	IP67
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	93 × 98 × 71 mm
Weight	240 g
Colour	red
Approval number CPR	2831-CPR-F1740

Approval number LPCB

166e/08

7.3.3 Modules

249126 Monitor Module/200API M501MEA LS

The addressable, compact micro module is used for the line-monitored integration of contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) into the bi-directional communication on the loop with System Sensor protocol.



Features:

- Physical address can be set in the range 01 to 159 by means of decadic rotary switches

Specifications:

Current consumption loop typ.	400 µA
Ambient temperature	from 0 °C to 49 °C
Dimensions L × W × H	71 × 33 × 15 mm
Weight	57 g
Colour	cream
Approval number CPR	0359-CPR-00176
Approval number VdS	G 214117

249430 Input Module 1xIN/200API M210EA LS

The addressable module is used for the line-monitored integration of a contact detector (e.g., manual call point, sprinkler system contact, supervising contact) into the bi-directional communication on the loop with System Sensor protocol. The integrated dual-isolator can be used or bypassed by choosing the appropriate terminals.



Features:

- Status LED
- Detector connecting line monitored for wire breakage and short circuit
- Physical address can be set in the range 01 to 159 by means of decadic rotary switches
- Direct DIN rail mounting or installation in optional module box

Specifications:

Current consumption loop typ.	200 µA
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	93 × 93 × 23 mm
Weight	118 g
Colour	white
Approval number CPR	0905-CPR-210490
Approval number VdS	G 222003

Cross-references	Page	Art.No.	Name Type
	223	249111	Surface Mounting Box/200AP M200E-SMB-KO
	223	249108	Surface Mounting Box/200AP M200E-SMB
	224	249438	Surface Mounting Box SMB6-V0-H

249431 Input Module 2xIN/200API M220EA LS

The addressable module is used for the line-monitored integration of 2 contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) into the bi-directional communication on the loop with System Sensor protocol. The integrated dual-isolator can be used or bypassed by choosing the appropriate terminals.



Features:

- Status LED for each input
- Terminal connecting lines monitored for wire breakage and short circuit
- Physical address can be set in the range 01 to 159 by means of decadic rotary switches
- Direct DIN rail mounting or installation in optional module box

Specifications:

Current consumption loop typ.	200 μ A
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions L x W x H	97 x 93 x 22 mm
Weight	118 g
Colour	white
Approval number CPR	0905-CPR-210490
Approval number VdS	G 222002

Cross-references	Page	Art.No.	Name Type
	223	249111	Surface Mounting Box/200AP M200E-SMB-KO
	223	249108	Surface Mounting Box/200AP M200E-SMB
	224	249438	Surface Mounting Box SMB6-V0-H

249432 Module 2xIn 1xRel.Out/200API M221EA LS

The addressable module is used for the line-monitored integration of 2 contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) as well as for triggering external devices by means of a dry relay output via the bi-directional communication on the loop with System Sensor protocol. The integrated dual-isolator can be used or bypassed by choosing the appropriate terminals.



Features:

- Separate status LED for each input and output
- Terminal connecting lines of input monitored for wire breakage and short circuit
- Physical address can be set in the range 01 to 159 by means of decadic rotary switches
- Direct DIN rail mounting or installation in optional module box

Specifications:

Current consumption loop typ.	200 μ A
Contact rating	2 A / 30 VDC or 0.5 A / 30 VAC
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions L x W x H	97 x 93 x 22 mm
Weight	118 g
Colour	white
Approval number CPR	0905-CPR-201490
Approval number VdS	G 222001

Cross-references	Page	Art.No.	Name Type
	223	249111	Surface Mounting Box/200AP M200E-SMB-KO
	223	249108	Surface Mounting Box/200AP M200E-SMB
	224	249438	Surface Mounting Box SMB6-V0-H

249115 Input Module 10xSurv.In/200API IM-10EA

The addressable module with 10 independent inputs is used for the line-monitored integration of contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) into the bi-directional communication on the loop with System Sensor protocol. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- Multicoloured status LED for each input
- Terminal connecting lines monitored for wire breakage and short circuit
- Physical address can be set in the range 01 to 159 by means of decadic rotary switches
- Installation in surface mounting box

Specifications:

Current consumption loop typ.	3.5 mA
Ambient temperature	from -10 °C to 55 °C
Dimensions L × W × H	172 × 142 × 25 mm
Weight	170 g
Approval number CPR	0905-CPR-191779

Cross-references	Page	Art.No.	Name Type
	224	249438	Surface Mounting Box SMB6-V0-H

249436 Output Module 1xSurv.Out/200API M201EA

The addressable module is used for the actuation of an external device via the bi-directional communication on the loop with System Sensor protocol. The output can be used as line-monitored output or as dry contact. The actuation method is selected through the wiring.



Features:

- Status LED
- Physical address can be set in the range 01 to 159 by means of decadic rotary switches
- Direct DIN rail mounting or installation in optional module box

Specifications:

Current consumption loop typ.	180 µA
Contact rating	2 A / 30 VDC or 0.5 A / 30 VAC
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	93 × 94 × 22 mm
Weight	118 g
Colour	white
Approval number CPR	0905-CPR-210490

Cross-references	Page	Art.No.	Name Type
	223	249111	Surface Mounting Box/200AP M200E-SMB-KO
	223	249108	Surface Mounting Box/200AP M200E-SMB
	224	249438	Surface Mounting Box SMB6-V0-H

249433 Control Module 1xSurv.Out/200API M201EA-HC

The addressable module is used for the actuation of an external device via the bi-directional communication on the loop with System Sensor protocol. The output can be used as line-monitored output or as dry contact. The actuation method and the monitoring mode is selected through the wiring.

Features:

- Status LED
- Physical address can be set in the range 01 to 159 by means of decadic rotary switches
- Direct DIN rail mounting or installation in optional module box



Specifications:

Current consumption loop typ.	185 µA
Contact rating	2 A / 30 VDC or 0.5 A / 30 VAC
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	99 × 93 × 22 mm
Weight	118 g
Colour	white
Approval number CPR	0786-CPR-21775
Approval number VdS	G 222059

Cross-references	Page	Art.No.	Name Type
	223	249111	Surface Mounting Box/200AP M200E-SMB-KO
	223	249108	Surface Mounting Box/200AP M200E-SMB
	224	249438	Surface Mounting Box SMB6-V0-H

249435 Control Module 1xRel.Out/200API M201EA-240

The addressable module is used for the actuation of an external device via the bi-directional communication on the loop with System Sensor protocol. The control module is used for the actuation of the external device by means of a relay with a dry change-over contact (suitable for switching 230 VAC).

Features:

- Status LED
- Physical address can be set in the range 01 to 159 by means of decadic rotary switches
- Direct DIN rail mounting or installation in optional module box



Specifications:

Current consumption loop typ.	100 µA
Contact rating	5 A / 250 VAC or 5 A / 30 VDC
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	99 × 93 × 22 mm
Weight	118 g
Colour	white
Approval number CPR	0786-CPR-21746
Approval number VdS	G 222010

Cross-references	Page	Art.No.	Name Type
	223	249111	Surface Mounting Box/200AP M200E-SMB-KO
	223	249108	Surface Mounting Box/200AP M200E-SMB
	224	249438	Surface Mounting Box SMB6-V0-H

249116 Control Module 6xRel.Out/200API CR-6EA

The addressable module is used for the actuation of external devices by means of 6 independent dry contacts via the bi-directional communication on the loop with System Sensor protocol. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- Multicoloured status LED for each output
- Physical address can be set in the range 01 to 159 by means of decadic rotary switches
- Installation in surface mounting box

Specifications:

Current consumption loop typ.	1.5 mA
Contact rating	3 A / 30 VDC
Ambient temperature	from -10 °C to 55 °C
Dimensions L × W × H	172 × 147 × 25 mm
Weight	170 g
Approval number CPR	0905-CPR-191780

249434 Conventional Zone Module/200API M210EA-CZ

The addressable module is used for the integration of conventional detectors into a loop with System Sensor protocol. The address is set in a straightforward manner by means of two decadic rotary switches located on the module. The integrated dual-isolator can be used or bypassed by choosing the appropriate terminals.

The module can be powered alternatively through the loop or by an external supply with 24 VDC. The conventional zone module provides a reset output for resetting special detectors.

Attention: Due to the capacitive line termination, the conventional zone module must not be used for the connection of intrinsically safe devices.



Features:

- Status LED
- Detector connecting line monitored for wire breakage and short circuit
- Physical address can be set in the range 01 to 159 by means of decadic rotary switches
- Direct DIN rail mounting or installation in optional module box

Specifications:

Operating voltage	from 18 VDC to 32 VDC
Current consumption typ.	1.5 mA
Current consumption loop typ.	100 µA
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	99 × 93 × 22 mm
Weight	118 g
Approval number CPR	0905-CPR-220801
Approval number VdS	G 223043

Cross-references	Page	Art.No.	Name Type
	223	249111	Surface Mounting Box/200AP M200E-SMB-KO
	223	249108	Surface Mounting Box/200AP M200E-SMB
	224	249438	Surface Mounting Box SMB6-V0-H

249437 Conventional Zone Module/200API M210EA-CZR

The addressable module is used for the integration of conventional detectors into a loop with System Sensor protocol. The address is set in a straightforward manner by means of two decadic rotary switches located on the module. The integrated dual-isolator can be used or bypassed by choosing the appropriate terminals.

The module can be powered alternatively through the loop or by an external supply with 24 VDC. The conventional zone module provides a reset output for resetting special detectors.

Due to the ohmic line termination, the conventional zone module can also be used for the connection of intrinsically safe devices.



Features:

- Status LED
- Detector connecting line monitored for wire breakage and short circuit
- Physical address can be set in the range 01 to 159 by means of decadic rotary switches
- Direct DIN rail mounting or installation in optional module box

Specifications:

Operating voltage	from 18 VDC to 28.5 VDC
Current consumption typ.	6.7 mA
Current consumption loop typ.	200 µA
Protection class	IP30
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	99 × 93 × 22 mm
Weight	118 g
Approval number CPR	0905-CPR-220801
Approval number VdS	G 223044

Cross-references	Page	Art.No.	Name Type
	223	249111	Surface Mounting Box/200AP M200E-SMB-KO
	223	249108	Surface Mounting Box/200AP M200E-SMB
	224	249438	Surface Mounting Box SMB6-V0-H

249095 Module 4xSurv.In 4xSurv.Out/Panel/200I MEA244-1/E

The addressable module provides 4 inputs and 4 outputs and is connected to a fire detection control panel via the loop with System Sensor protocol.

The inputs allow connection of contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) and are monitored for wire breakage and short circuit. The outputs are designed for the connection of control devices (e.g., solenoid valves, relay coils) and provide separate monitoring of line resistance and load resistance. The reference value of both resistances is determined by means of an automatic calibration procedure, initiated with a keystroke during commissioning. If one of the two resistance values differs from the reference value by more than 25 % during operation, the output is indicated as faulty.

The patented method of multiple monitoring allows reliable detection of line faults or load faults. Therefore the multi module is ideally suited for use in extinguishing systems. An optional Line-Coupler LKR21-1 allows redundant actuation of solenoid valves in accordance with EN 12094-1.

The module is provided with an integrated dual-isolator and is designed for installation into the fire detection control panel, into a power supply housing Series NT24 or into a switch cabinet.

The module is provided with an integrated dual-isolator and is designed for installation into the fire detection control panel, into a power supply housing Series NT24 or into a switch cabinet.

Features:

- Mounting in LST standard grid by means of supplied mounting spacers
- Separate status LED for each input and output
- Terminal connecting lines monitored for wire breakage and short circuit
- Internal resistance of control devices and line resistance of supply line are monitored by means of a patented method



- Integrated self-calibration by measuring the line resistance and internal resistance, initiated at a keystroke
- Supply voltage monitored for undervoltage
- Physical address can be set in the range 01 to 99 by means of button in combination with LED

Specifications:

Operating voltage	from 20 VDC to 30 VDC
Current consumption typ.	35 mA (at 24 V, quiescent)
Current consumption max.	160 mA (without load)
Current consumption loop typ.	500 μ A
Load current per output max.	1.5 A
Ambient temperature	from -5 °C to 60 °C
Ambient temperature	from 5 °C to 50 °C (control devices, to ensure the functioning of the fault detection)
Dimensions L \times W \times H	194 \times 93 \times 20 mm
Weight	150 g
Approval number CPR	0786-CPD-20978
Approval number VdS	G 212164

249092 Module 4xSurv.In 4xSurv.Out/Rail/200I MEA244-1/TR

The addressable module MEA244-1/TR is structured in the same way as the module MEA244-1/E, but it is intended for DIN rail mounting.



Features:

- To be mounted on a DIN rail

Specifications:

Dimensions L \times W \times H	196 \times 97 \times 56 mm
Weight	310 g
Approval number CPR	0786-CPD-20978
Approval number VdS	G 212164

249127 Module 4xSurv.In 4xSurv.Out/Fail-safe/Panel/200I MEA244-1/FS/E

The structure of the addressable module MEA244-1/FS/E is similar to that of the module MEA244-1/E, but it is designed for the actuation of fire prevention devices which have to enter a safe state in the event of a fault – for example fixing systems.

If the module is used on an LIF601-2, the output can – in the course of parameterisation – be switched to the so-called fail-safe mode.

In this case, the output will be activated and thus enter the safe state if the loop communication or the loop voltage fails. In the event of an update, this function can be briefly suppressed for all outputs of the BC600 that have been set in this way, and thus the activation of all outputs can be prevented.

The MEA244-1/FS/E has the following special features (for further features, see MEA244-1/E):

- In the normal condition, the control voltage is switched to an output, and as a result the fire prevention device is actuated. The control voltage is monitored separately for each output. If an output is activated by the control panel or if faults occur on the loop – for example a failure of the communication or of the loop voltage – the control voltage of the output will be switched off. As a result, the fire prevention device will become de-energised.
- For maintenance work or changes to the fire detection system, the module can be switched into the maintenance mode by means of a push-button. This prevents the control voltage of the outputs from being switched off in the event of a loop fault. The maintenance mode is indicated on the module by the blinking red LED displays for the outputs, and on the fire detection control panel it is indicated as fault of the outputs.



Specifications:

Dimensions L × W × H	194 × 93 × 20 mm
Weight	150 g
Approval number CPR	0786-CPD-20978

249128 Module 4xSurv.In 4xSurv.Out/Fail-safe/Rail/200I MEA244-1/FS/TR

The addressable module MEA244-1/FS/TR is structured in the same way as the module MEA244-1/FS/E, but it is intended for DIN rail mounting.



Features:

- To be mounted on a DIN rail

Specifications:

Dimensions L × W × H	196 × 97 × 56 mm
Weight	310 g
Approval number CPR	0786-CPD-20978

249121 Position Switch/200AP/pressed Idle EDS200AP-1/GR

The addressable module allows monitoring of the position of slides, valves and similar mechanical devices of an extinguishing system. The System Sensor protocol is used for the bi-directional communication on the loop. The module is accommodated in a plastic housing and is especially durable and fail-safe, due to the use of opto-electronic components.



Features:

- Normal condition when actuating element is being pressed
- Status LED
- Physical address can be set in the range 01 to 159 by means of button in combination with LED
- Mounting terminals according to DIN 912 M5
- Cable gland M16 × 1.5

Specifications:

Current consumption loop typ.	300 µA
Protection class	IP65
Ambient temperature	from -20 °C to 60 °C
Dimensions L × W × H	59 × 32 × 63 mm
Weight	90 g
Colour	red black

249122 Position Switch/200AP/pressed Alarm EDS200AP-1/GA

The structure of the addressable module EDS200AP-1/GA is identical to that of the module EDS200AP-1/GR, but the EDS200AP-1/GA is in alarm condition when the actuating element is being pressed.

Features:

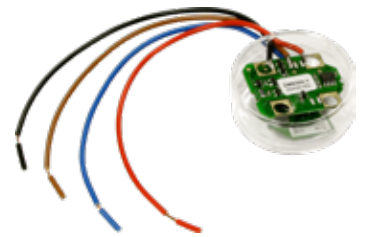
- Alarm condition when actuating element is being pressed

Specifications:

Protection class	IP65
Dimensions L × W × H	59 × 32 × 63 mm
Weight	90 g

249123 Monitor Module/Box/200AP ÜMB200AP-1

The addressable module allows integration of a contact detector (e.g., pressure switch, temperature monitor) into the bi-directional communication on the loop with System Sensor protocol. The module is integrated in a round, transparent plastic case and is connected both to the loop and to the detector via two flying leads each. Since the module has no mounting mechanism of its own, it must be installed in the detector housing.



Features:

- Status LED
- Physical address can be set in the range 01 to 159 by means of button in combination with LED

Specifications:

Current consumption loop typ.	300 μ A
Ambient temperature	from -20 °C to 60 °C
Dimensions $\varnothing \times H$	45 \times 16 mm
Weight	16 g

249003 Isolator Module/500/200 ISM1-2

The isolator module is used for the connection to a loop with System Sensor protocol. If a short circuit occurs between two isolator modules, they separate the area experiencing a fault from the loop and ensure operation of all detectors and modules outside this area. For optimum availability of the loop elements, the detector zones on the loop should be separated from each other by isolator modules.



Features:

- Installation in commercially available installation boxes, on a mounting bracket or on a mounting plate

Specifications:

Current consumption max.	200 μ A
Ambient temperature	from -5 °C to 50 °C
Dimensions L \times W \times H	70 \times 24 \times 15 mm
Weight	20 g
Approval number CPR	0786-CPD-21029
Approval number VdS	G 212164

7.3.4 Optical and Acoustic Devices

355259 Sounder/WM/200API/white/100 WSO-PP-I

The addressable loop-powered multitone sounder WSO-PP-I is identical with the Sounder WSO-PR-I, but the WSO-PP-I is accommodated in a white plastic housing.

Features:

- Base adaptors for protection classes IP44 and IP65 available

Specifications:

Protection class	IP21
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Sound level max.	99 dB(A)/1 m
Dimensions Ø × D	121 × 65 mm
Approval number VdS	G 212158

355258 Sounder/WM/200AP/white/100 WSO-PP-N

The addressable loop-powered multitone sounder WSO-PP-N is identical with the Sounder WSO-PR-I, but the WSO-PP-N does not contain a dual-isolator and is accommodated in a white plastic housing.

Features:

- Base adaptors for protection classes IP44 and IP65 available

Specifications:

Protection class	IP21
Sound level max.	99 dB(A)/1 m
Dimensions Ø × D	121 × 65 mm
Approval number CPR	2831-CPR-F1947
Approval number VdS	G 212157
Approval number LPCB	166h/01

355251 Sounder/WM/200API/red/100 WSO-PR-I

The addressable multitone sounder is integrated in a red plastic housing. The sounder is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is intended for outdoor and indoor surface mounting.

With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. That allows the sounder to be activated with up to 32 different tones and selectable sound level, depending on the parameter setup of the control panel and the system condition. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

With Fire Detection Control Panels Series BC216, a tone type combination and the sound level are set via a DIL switch.

In the event of a short circuit, the integrated dual-isolator maintains the function of all loop elements that are not affected by the short circuit.



Features:

- Base adaptors for protection classes IP44 and IP65 available
- 32 different tone types selectable (e.g., continuous tone 800 Hz, DIN 33404 tone 1200-500Hz, Slow Whoop tone 500-1200 Hz)
- 3 different sound levels selectable (low-medium-high)
- Low power consumption
- 2 decadic rotary switches for setting the address in the range 01 to 159

Specifications:

Current consumption loop typ.	450 µA (sounder off)
Current consumption loop max.	5.1 mA (DIN tone, high sound level)
Relative humidity (no condensation)	from 10 % to 93 %
Protection class	IP21
Ambient temperature	from -25 °C to 70 °C
Sound level max.	99 dB(A)/1 m
Dimensions Ø × D	121 × 65 mm
Colour	red
Approval number CPR	2831-CPR-F1951
Approval number VdS	G 212158
Approval number LPCB	166j/01

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP
	228	359051	Base Sounder/Strobe/IP44/red BRR
	228	359052	Base Sounder/Strobe/IP65/red WRR

355250 Sounder/WM/200AP/red/100 WSO-PR-N

The structure of the addressable multitone sounder WSO-PR-N is identical to that of the Sounder WSO-PRI, but the WSO-PR-N does not contain a dual-isolator.

Features:

- Base adaptors for protection classes IP44 and IP65 available

Specifications:

Protection class	IP21
Sound level max.	99 dB(A)/1 m
Dimensions Ø × D	121 × 65 mm
Approval number CPR	2831-CPR-F1947
Approval number VdS	G 212157
Approval number LPCB	166h/01

355263 Sounder/WB/200API/white BSO-PP-I

The addressable base sounder is integrated in a round white plastic housing. The sounder is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is intended for indoor surface mounting. The integrated base can accommodate fire detectors Series 200-Advanced and 200.

With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. That allows the sounder to be activated with up to 32 different tones and selectable sound level, depending on the parameter setup of the control panel and the system condition. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

With Fire Detection Control Panels Series BC216, a tone type combination and the sound level are set via a DIL switch.

In the event of a short circuit, the integrated dual-isolator maintains the function of all loop elements that are not affected by the short circuit.



Features:

- Base adaptor for surface mounting available
- 32 different tone types selectable (e.g., continuous tone 800 Hz, DIN 33404 tone 1200-500Hz, Slow Whoop tone 500-1200 Hz)
- 3 different sound levels selectable (low-medium-high)
- Low power consumption
- 2 decadic rotary switches for setting the address in the range 01 to 159

Specifications:

Current consumption loop typ.	450 µA (sounder off)
Current consumption loop max.	4.3 mA (DIN tone, high sound level)
Relative humidity (no condensation)	from 10 % to 93 %
Protection class	IP24
Ambient temperature	from -25 °C to 70 °C
Sound level max.	86 dB(A)/1 m
Dimensions Ø × H	121 × 57 mm
Weight	200 g
Colour	white
Approval number CPR	2831-CPR-1953
Approval number VdS	G 212158

Approval number LPCB 166j/03

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP
	228	359053	Base Sounder/Strobe/IP44/white BPW
	227	359047	Lid for Sounder/200/10pcs IBS-LIDPW-10X

355262 Sounder/WB/200AP/white BSO-PP-N

The structure of the addressable base sounder BSO-PP-N is identical to that of the Sounder BSO-PP-I, but the BSO-PP-N does not contain a dual-isolator.

Features:

- Base adaptor for surface mounting available

Specifications:

Protection class	IP24
Sound level max.	86 dB(A)/1 m
Dimensions Ø × H	121 × 57 mm
Weight	200 g
Approval number CPR	2831-CPR-1949
Approval number VdS	G 212157
Approval number LPCB	166h/03

355115 Sounder/FB/200RI/white 200/FBRI/SOUW

The Sounder 200/FBRI/SOUW is integrated in a white plastic housing and is designed for indoor ceiling mounting. A Detector Base Series 200AP can be attached onto the sounder. In this case, the sounder is actuated and powered via the remote indicator output of the detector. Alternatively, the device can also be used as independent conventional sounder. For this purpose, a white or red cover plate is available. The tone and the sound level are set by means of DIL switches.



Features:

- 32 tones (e.g., DIN tone, alternating tone 800/1000 Hz, continuous tone 970 Hz)
- Low power consumption
- 3 different sound levels selectable

Specifications:

Operating voltage	from 18 VDC to 30 VDC
Current consumption typ.	9 mA (at 24 V, DIN tone, high sound level)
Protection class	IP21
Ambient temperature	from -20 °C to 70 °C
Sound level max.	91 dB(A)/1 m
Dimensions Ø × H	115 × 25 mm
Weight	90 g
Colour	white
Approval number CPR	0832-CPD-2088
Approval number LPCB	546a/04

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP
	228	359060	Lid for Sounder 200/FBRI 200/FB/COVER/W

355253 **Sounder-Str/WM/200API/wh/re/100/N WSS-PR-I**

The addressable multitone sounder with strobe is integrated in a plastic housing with red cap. The sounder-strobe is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is intended for outdoor and indoor surface mounting. With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. That allows the sounder to be activated with up to 32 different tones and selectable sound level, depending on the parameter setup of the control panel and the system condition. If several sounder-strobes are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone and light pulse. The strobe can also be activated separately from the sounder.



With Fire Detection Control Panels Series BC216, a tone type combination and the sound level are set via a DIL switch. In the event of a short circuit, the integrated dual-isolator maintains the function of all loop elements that are not affected by the short circuit.

Features:

- 32 different tone types selectable (e.g., continuous tone 800 Hz, DIN 33404 tone 1200-500 Hz, Slow Whoop tone 500-1200 Hz)
- 3 different sound levels selectable (low-medium-high)
- Low power consumption due to the use of LEDs
- 2 decadic rotary switches for setting the address in the range 01 to 159
- Base adaptors for protection classes IP44 and IP65 available

Specifications:

Current consumption loop typ.	450 µA (sounder/strobe off)
Current consumption loop max.	9 mA (DIN tone, high sound level, strobe active)
Relative humidity (no condensation)	from 10 % to 93 %
Protection class	IP24
Protection class	IP44, IP65 (with base adaptor)
Ambient temperature	from -25 °C to 70 °C
Sound level max.	99 dB(A)/1 m
Strobe frequency	1 Hz
Colour of lens/cap	red
Light colour	red
Dimensions Ø × D	121 × 65 mm
Weight	240 g
Approval number CPR	2831-CPR-1952
Approval number LPCB	166j/02

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP
	228	359051	Base Sounder/Strobe/IP44/red BRR
	228	359052	Base Sounder/Strobe/IP65/red WRR

355270 **Sounder-Str/WM/200API/wh/cl/re/100/O WSS-PC-I**

The addressable multitone sounder with red strobe is integrated in a white plastic housing with clear cap. The sounder-strobe is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is intended for indoor and outdoor wall mounting.



With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. That allows the sounder to be activated with up to 32 different tones and selectable sound level, depending on the parameter setup of the control panel and the system condition. If several sounder-strobes are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone and light pulse. The strobe can also be activated separately from the sounder.

With Fire Detection Control Panels Series BC216, a tone type combination and the sound level are set via a DIL switch.

At short circuit, the integrated dual-isolator maintains the function of all loop elements that are not affected by the short circuit.

The strobe has been tested according to EN 54-23 Class O (open class).

Features:

- 32 different tone types selectable (e.g., continuous tone 800 Hz, DIN 33404 tone 1200-500 Hz, Slow Whoop tone 500-1200 Hz)
- 3 different sound levels selectable (low-medium-high)
- Low power consumption due to the use of LEDs
- 2 decadic rotary switches for setting the address in the range 01 to 159
- Base adaptors for protection classes IP44 and IP65 available

Specifications:

Current consumption loop typ.	450 µA (sounder/strobe off)
Current consumption loop max.	9 mA (DIN tone, high sound level, strobe active)
Relative humidity (no condensation)	from 10 % to 93 %
Protection class	IP24
Protection class	IP44, IP65 (with base adaptor)
Ambient temperature	from -25 °C to 70 °C
Sound level max.	99 dB(A)/1 m
Strobe frequency	1 Hz
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	O-2.4-2
Mounting height max.	2.4 m
Dimensions Ø × D	121 × 65 mm
Weight	240 g
Colour	white
Approval number CPR	2831-CPR-F0277
Approval number VdS	G 216051
Approval number LPCB	166r/01

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP
	228	359053	Base Sounder/Strobe/IP44/white BPW
	229	359054	Base Sounder/Strobe/IP65/white WPW

355320 Sounder-Str/WM/200API/re/cl/re/100/W WRA-RC-I

The addressable multitone sounder with red strobe is integrated in a red plastic housing with clear cap. The sounder-strobe is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is intended for indoor and outdoor wall mounting.

With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. That allows the sounder to be activated with up to 32 different tones and selectable sound level, depending on the parameter setup of the control panel and the system condition. If several sounder-strobes are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone and light pulse. The strobe can also be activated separately from the sounder.

With Fire Detection Control Panels Series BC216, a tone type combination and the sound level are set via a DIL switch.

At short circuit, the integrated dual-isolator maintains the function of all loop elements that are not affected by the short circuit.

The strobe has been tested according to EN 54-23 Class W (wall class).

Features:

- Red very high-performance LEDs
- 32 different tone types selectable (e.g., continuous tone 800 Hz, DIN 33404 tone 1200-500 Hz, Slow Whoop tone 500-1200 Hz)
- 3 different sound levels selectable (low-medium-high)



- Low power consumption due to the use of LEDs
- 2 decadic rotary switches for setting the address in the range 01 to 159
- Base adaptors for protection classes IP44 and IP65 available

Specifications:

Current consumption loop typ.	130 µA (sounder/strobe off)
Current consumption loop max.	25.2 mA (DIN tone, high, EN 54-23)
Relative humidity (no condensation)	from 10 % to 96 %
Protection class	IP21
Protection class	IP44, IP65 (with base adaptor)
Ambient temperature	from -25 °C to 70 °C
Sound level max.	100 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	W-4.2-11.5 – wall mounting
Mounting height max.	4.2 m
Illuminated area	11.5 × 11.5 m
Category EN 54-23	W-2.4-11.5 – wall mounting
Mounting height max.	2.4 m
Illuminated area	11.5 × 11.5 m
Category EN 54-23	W-3.6-10.5 – wall mounting
Mounting height max.	3.6 m
Illuminated area	10.5 × 10.5 m
Category EN 54-23	W-2.4-10.5 – wall mounting
Mounting height max.	2.4 m
Illuminated area	10.5 × 10.5 m
Dimensions Ø × D	121 × 85 mm
Weight	305 g
Colour	red
Approval number CPR	2831-CPR-F4821
Approval number VdS	G 223069
Approval number LPCB	567az/02

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP
	228	359051	Base Sounder/Strobe/IP44/red BRR
	228	359052	Base Sounder/Strobe/IP65/red WRR

355321 Sounder-Str/WM/200API/re/kl/wh/100/W WWA-RC-I

The structure of the addressable multitone sounder with strobe WWA-RC-I is identical to that of the Sounder-Strobe WRA-RC-I, but the WWA-RC-I emits a white light.

Features:

- White very high-performance LEDs

Specifications:

Protection class	IP21
Sound level max.	100 dB(A)/1 m
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	W-4-11.5 – wall mounting
Mounting height max.	4 m
Illuminated area	11.5 × 11.5 m
Category EN 54-23	W-2.4-11.5 – wall mounting
Mounting height max.	2.4 m
Illuminated area	11.5 × 11.5 m
Category EN 54-23	W-3.8-9 – wall mounting
Mounting height max.	3.8 m
Illuminated area	9 × 9 m
Category EN 54-23	W-2.4-9 – wall mounting

Mounting height max.	2.4 m
Illuminated area	9 × 9 m
Dimensions Ø × D	121 × 85 mm
Weight	305 g
Approval number CPR	2831-CPR-F4827
Approval number LPCB	567az/04

355322 Sounder-Str/WM/200API/wh/kl/re/100/W WRA-PC-I

The addressable multitone sounder with strobe WRA-PC-I is identical with the Sounder-Strobe WRA-RC-I, except that the WRA-PC-I is accommodated in a white plastic housing.

Features:

- Red very high-performance LEDs

Specifications:

Protection class	IP21
Sound level max.	100 dB(A)/1 m
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	W-4.2-11.5 – wall mounting
Mounting height max.	4.2 m
Illuminated area	11.5 × 11.5 m
Category EN 54-23	W-2.4-11.5 – wall mounting
Mounting height max.	2.4 m
Illuminated area	11.5 × 11.5 m
Category EN 54-23	W-3.6-10.5 – wall mounting
Mounting height max.	3.6 m
Illuminated area	10.5 × 10.5 m
Category EN 54-23	W-2.4-10.5 – wall mounting
Mounting height max.	2.4 m
Illuminated area	10.5 × 10.5 m
Dimensions Ø × D	121 × 85 mm
Weight	305 g
Approval number CPR	2831-CPR-F4818
Approval number VdS	G 223069
Approval number LPCB	567az/01



355323 Sounder-Str/WM/200API/wh/kl/wh/100/W WWA-PC-I

The addressable multitone sounder with strobe WWA-PC-I is identical with the Sounder-Strobe WRA-RC-I, except that the WWA-PC-I is accommodated in a white plastic housing and emits a white light.

Features:

- White very high-performance LEDs

Specifications:

Protection class	IP21
Sound level max.	100 dB(A)/1 m
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	W-4-11.5 – wall mounting
Mounting height max.	4 m
Illuminated area	11.5 × 11.5 m
Category EN 54-23	W-2.4-11.5 – wall mounting
Mounting height max.	2.4 m
Illuminated area	11.5 × 11.5 m



Category EN 54-23	W-3.8-9 – wall mounting
Mounting height max.	3.8 m
Illuminated area	9 × 9 m
Category EN 54-23	W-2.4-9 – wall mounting
Mounting height max.	2.4 m
Illuminated area	9 × 9 m
Dimensions Ø × D	121 × 85 mm
Weight	305 g
Approval number CPR	2831-CPR-F4824
Approval number LPCB	567az/03

355273 **Sounder-Str/WB/200API/wh/cl/re/O DSS-PC-I**

The addressable multitone sounder with red strobe is integrated in a white plastic housing with clear lens. The sounder-strobe is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is intended for indoor surface mounting. The integrated base can accommodate fire detectors Series 200-Advanced and 200.



With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. That allows the sounder to be activated with up to 32 different tones and selectable sound level, depending on the parameter setup of the control panel and the system condition. If several sounder-strobes are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone and light pulse. The strobe can also be activated separately from the sounder.

With Fire Detection Control Panels Series BC216, a tone type combination and the sound level are set via a DIL switch.

A dual-isolator is integrated in the sounder-strobe. At short circuit, it maintains the function of all loop elements that are not affected by the short circuit.

The strobe has been tested according to EN 54-23 Class O (open class).

Features:

- 32 different tone types selectable (e.g., continuous tone 800 Hz, DIN 33404 tone 1200-500 Hz, Slow Whoop tone 500-1200 Hz)
- 3 different sound levels selectable (low-medium-high)
- Low power consumption due to the use of LEDs
- 2 decadic rotary switches for setting the address in the range 01 to 159
- Base adaptor for surface mounting available

Specifications:

Current consumption loop typ.	450 µA (sounder/strobe off)
Current consumption loop max.	8.2 mA (DIN tone, high sound level, strobe active)
Relative humidity (no condensation)	from 10 % to 93 %
Protection class	IP21
Ambient temperature	from -25 °C to 70 °C
Sound level max.	86 dB(A)/1 m
Strobe frequency	1 Hz
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	O-3-2.2 – ceiling mounting
Mounting height max.	3 m
Dimensions Ø × H	121 × 57 mm
Weight	200 g
Colour	white
Approval number CPR	0832-CPR-F2090
Approval number LPCB	166r/02

Cross-references	Page	Art.No.	Name Type
	227	359047	Lid for Sounder/200/10pcs IBS-LIDPW-10X
	220	246039	Detector Base/500/200AP B501AP
	228	359053	Base Sounder/Strobe/IP44/white BPW

355276 Sounder-Str/WB/200API/wh/cl/re/C BRH-PC-I

The addressable multitone sounder with red strobe is integrated in a white plastic housing with clear lens. The sounder-strobe is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is intended for indoor surface mounting. Due to the shape of the lens, flush mounted cabling is required. The integrated base can accommodate fire detectors Series 200-Advanced and 200.



With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. That allows the sounder to be activated with up to 32 different tones and selectable sound level, depending on the parameter setup of the control panel and the system condition. If several sounder-strobes are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone and light pulse. The strobe can also be activated independently of the sounder.

On Fire Detection Control Panels Series BC216, a tone type combination and the sound level are set with a DIL switch.

In the event of a short circuit, the sounder-strobe's built-in dual-isolator maintains the function of all loop elements that are not affected by the short circuit.

The strobe has been tested according to EN 54-23 Class C (ceiling class).

Features:

- Large illuminated area according to EN 54-23, therefore one signalling device per detector is usually sufficient
- Red very high-performance LEDs
- 32 different tone types selectable (e.g., continuous tone 800 Hz, DIN 33404 tone 1200-500 Hz, Slow Whoop tone 500-1200 Hz)
- 3 different sound levels selectable (low-medium-high)
- Low power consumption due to the use of LEDs
- 2 decadic rotary switches for setting the address in the range 01 to 159
- Base adaptor for surface mounting available

Specifications:

Current consumption loop typ.	150 µA (sounder/strobe off)
Current consumption loop max.	28.5 mA (DIN tone, high sound level)
Relative humidity (no condensation)	from 10 % to 93 %
Protection class	IP21
Ambient temperature	from -10 °C to 55 °C
Sound level max.	96 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	C-3-15 – ceiling mounting
Mounting height max.	3 m
Dimensions Ø × H	125 × 60 mm
Weight	275 g
Colour	white
Approval number CPR	2831-CPR-F4461

Cross-references	Page	Art.No.	Name Type
	227	359047	Lid for Sounder/200/10pcs IBS-LIDPW-10X
	220	246039	Detector Base/500/200AP B501AP
	228	359053	Base Sounder/Strobe/IP44/white BPW

355277 Sounder-Str/WB/200API/wh/cl/re/C BRS-PC-I

The addressable base sounder with strobe BRS-PC-I is structured in the same way as the Sounder-StrobeBRH-PC-I, but it has a lower light intensity and therefore a smaller illuminated area.

Features:

- Red very high-performance LEDs

Specifications:

Protection class	IP21
Sound level max.	96 dB(A)/1 m
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	C-3-8.5 – ceiling mounting
Mounting height max.	3 m
Dimensions Ø × H	125 × 60 mm
Weight	275 g
Approval number CPR	2831-CPR-F4464



356156 Strobe/WM/200API/white/clear/red/O WST-PC-I

The addressable red strobe is integrated in a white plastic housing with clear cap. It is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is suitable for indoor and outdoor wall mounting.

If a Fire Detection Control Panel Series BC600 actuates several strobes in parallel, they are synchronised by the control panel to generate a uniform light pulse. In the event of a short circuit, the strobe's built-in dual-isolator maintains the function of all loop elements that are not affected by the short circuit. The strobe has been tested according to EN 54-23 Class O (open class).

Features:

- Low power consumption due to the use of LEDs
- 2 decadic rotary switches for setting the address in the range 01 to 159
- Base adaptors for protection classes IP44 and IP65 available

Specifications:

Current consumption loop typ.	450 µA (quiescent)
Current consumption loop max.	4.1 mA (active)
Relative humidity (no condensation)	from 10 % to 93 %
Protection class	IP24
Ambient temperature	from -25 °C to 70 °C
Strobe frequency	1 Hz
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	O-2.4-2 – wall mounting
Mounting height max.	2.4 m
Dimensions Ø × D	121 × 51 mm
Weight	170 g
Colour	white
Approval number CPR	2831-CPR-F0270
Approval number VdS	G 216053
Approval number LPCB	166m/01



Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP
	228	359053	Base Sounder/Strobe/IP44/white BPW
	229	359054	Base Sounder/Strobe/IP65/white WPW

356170 Strobe/WM/200API/re/cl/re/W WRL-RC-I

The addressable red strobe is integrated in a red plastic housing with clear cap. It is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is suitable for indoor and outdoor mounting.

The strobe has been tested according to EN 54-23 Class W (wall). The signalling device is used if optical alarming according to EN 54-23 is required.

If a Fire Detection Control Panel Series BC600 actuates several strobes in parallel, they are synchronised by the control panel to generate a uniform light pulse.

In the event of a short circuit, the strobe's built-in dual-isolator maintains the function of all loop elements that are not affected by the short circuit.



Features:

- Red very high-performance LEDs
- Low power consumption due to the use of LEDs
- 2 decadic rotary switches for setting the address in the range 01 to 159
- Base adaptors for protection classes IP44 and IP65 available

Specifications:

Current consumption loop typ.	130 µA (quiescent)
Current consumption loop max.	11 mA (active)
Relative humidity (no condensation)	from 10 % to 96 %
Protection class	IP21
Ambient temperature	from -10 °C to 55 °C
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	W-3.6-10.5 – wall mounting
Mounting height max.	3.6 m
Illuminated area	10.5 × 10.5 m
Category EN 54-23	W-2.4-10.5 – wall mounting
Mounting height max.	2.4 m
Dimensions Ø × D	121 × 85 mm
Weight	285 g
Colour	red
Approval number CPR	2831-CPR-F4833
Approval number VdS	G 223070
Approval number LPCB	567ah/09

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP
	228	359051	Base Sounder/Strobe/IP44/red BRR
	228	359052	Base Sounder/Strobe/IP65/red WRR

356171 Strobe/WM/200API/re/cl/wh/W WWL-RC-I

The structure of the addressable strobe WWL-RC-I is identical to that of the Strobe WRL-RC-I, but the WWL-RC-I emits a white light.

Features:

- White very high-performance LEDs

Specifications:

Protection class	IP21
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	W-3.8-9 – wall mounting
Mounting height max.	3.8 m
Illuminated area	9 × 9 m

Category EN 54-23	W-2.4-9 – wall mounting
Mounting height max.	2.4 m
Dimensions Ø × D	121 × 85 mm
Weight	285 g
Approval number CPR	2831-CPR-F4839
Approval number LPCB	567ah/11

356172 Strobe/WM/200API/wh/cl/re/W WRL-PC-I

The addressable strobe WRL-PC-I is identical with the Strobe WRL-RC-I, except that the WRL-PC-I is accommodated in a white plastic housing.

Features:

- Red very high-performance LEDs

Specifications:

Protection class	IP21
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	W-3.6-10.5 – wall mounting
Mounting height max.	3.6 m
Illuminated area	10.5 × 10.5 m
Category EN 54-23	W-2.4-10.5 – wall mounting
Mounting height max.	2.4 m
Dimensions Ø × D	121 × 85 mm
Weight	285 g
Approval number CPR	2831-CPR-F4830
Approval number VdS	G 223070
Approval number LPCB	567ah/08



356173 Strobe/WM/200API/wh/cl/wh/W WWL-PC-I

The addressable strobe WWL-PC-I is identical with the Strobe WRL-RC-I, except that the WWL-PC-I is accommodated in a white plastic housing and emits a white light.

Features:

- White very high-performance LEDs

Specifications:

Protection class	IP21
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	W-3.8-9 – wall mounting
Mounting height max.	3.8 m
Illuminated area	9 × 9 m
Category EN 54-23	W-2.4-9 – wall mounting
Mounting height max.	2.4 m
Dimensions Ø × D	121 × 85 mm
Weight	285 g
Approval number CPR	2831-CPR-F4836
Approval number LPCB	567ah/10

356159 Strobe/WB/200API/wh/cl/re/C BGL-PC-I

The addressable strobe with clear lens and red LEDs is integrated in a white plastic housing. The strobe is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is intended for indoor surface mounting. Due to the shape of the lens, flush mounted cabling is required. The integrated base can accommodate fire detectors Series 200-Advanced and 200.

If several strobes are actuated in parallel, they are synchronised by the control panel to generate a uniform light pulse.

In the event of a short circuit, the strobe's built-in dual-isolator maintains the function of all loop elements that are not affected by the short circuit.

The strobe has been tested according to EN 54-23 Class C (ceiling class).



Features:

- Red very high-performance LEDs
- Low power consumption due to the use of LEDs
- 2 decadic rotary switches for setting the address in the range 01 to 159
- Base adaptor for surface mounting available

Specifications:

Current consumption loop typ.	150 µA (quiescent)
Current consumption loop max.	15 mA
Protection class	IP21
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	C-3-8.5 – ceiling mounting
Mounting height max.	3 m
Dimensions Ø × H	125 × 60 mm
Weight	271 g
Colour	white
Approval number CPR	2831-CPR-F4467

Cross-references	Page	Art.No.	Name Type
	227	359047	Lid for Sounder/200/10pcs IBS-LIDPW-10X
	220	246039	Detector Base/500/200AP B501AP
	228	359053	Base Sounder/Strobe/IP44/white BPW

7.3.5 Accessories

246039 Detector Base/500/200AP B501AP

The white detector base is designed to accommodate automatic fire detectors Series 500, 200-Advanced and 200. The base is suitable for indoor surface mounting and for cable diameters up to 8 mm.

Features:

- Connection to loop with System Sensor protocol
- Screw terminals for secure connection of multiple wires
- Terminal for external remote indicator
- Mechanical theft protection can be activated
- Label plate can be broken off



Specifications:

Relative humidity (no condensation)	from 0 % to 95 %
Ambient temperature	from -30 °C to 70 °C
Dimensions Ø × H	102 × 22 mm
Weight	39 g
Colour	white

246013 Isolator Detector Base/500/200 B524IEFT-1

The cream-coloured detector base with integrated dual-isolator is designed to accommodate automatic fire detectors Series 500, 200-Advanced and 200. The base is suitable for indoor surface mounting.

If a short circuit occurs between two isolator modules, they separate the area experiencing a fault from the loop and ensure operation of all other connected detectors and modules. For optimum availability, the detector zones on the loop should be separated from each other by isolator modules.



Features:

- Connection to loop with System Sensor protocol
- Screw terminals for secure connection of multiple wires
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications:

Current consumption loop typ.	100 µA
Relative humidity (no condensation)	from 10 % to 93 %
Ambient temperature	from -30 °C to 70 °C
Dimensions Ø × H	102 × 26 mm
Weight	70 g
Colour	cream
Approval number CPR	2831-CPR-F1974
Approval number VdS	G 200100
Approval number LPCB	199x/01

246164 Detector Base/500/200/Heater B524HTR-W

The white detector base is designed to accommodate optical smoke detectors Series 200-Advanced. Thanks to the integrated heating elements, the base is suitable for surface mounting in very moist areas (loading ramps, cable ducts, etc.). The heating elements are powered by an external power supply.



Features:

- Connection to loop with System Sensor protocol
- Screw terminals for secure connection of multiple wires
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications:

Operating voltage	from 20 V to 30 V
Current consumption typ.	80 mA (at 24 V, heating)
Relative humidity (no condensation)	from 10 % to 95 %
Ambient temperature	from -30 °C to 60 °C
Dimensions Ø × H	102 × 35 mm
Weight	90 g
Colour	white

249027 Detector Base/500/200/Heater MH500-1

The Detector Base B501 with included heating is designed for Series 500/200 automatic smoke detectors that are used in extremely moist areas (e.g. loading ramps, cable ducts). A detector base with area heater and an installation box with connection terminals and a remote indicator are mounted together on a mounting plate.



Features:

- Connection terminals for all incoming and outgoing cables
- Detector base pre-wired on the terminals
- Additional remote indicator on the installation box

Specifications:

Operating voltage typ.	40 VAC/DC
Power consumption (at 24 V)	12 W
Dimensions L × W × H	310 × 175 × 120 mm
Weight	1.3 kg

Cross-references	Page	Art.No.	Name Type
	312	249014	PSU For Detector Heater MH-TR1

246161 Surface Mounting Kit/200AP/AP SMK400EAP

The white supplement base is needed in addition to the detector bases B501AP, B524HTR-W or B524RTE-W for surface mounting using cable conduits or thick cables. The supplement base is prepared for the use of cable glands M20.



Specifications:

Dimensions Ø × H	103 × 34 mm
Weight	90 g
Colour	white

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP
	221	246164	Detector Base/500/200/Heater B524HTR-W

246167 Recessed Mounting Kit/200AP RMK400AP

The white mounting accessory is needed as supplement to the detector bases B501AP, when they are flush mounted in false ceilings.



Specifications:

Dimensions Ø × H	144 × 40 mm
Weight	90 g
Colour	white

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP

249120 Conduit Adapter for Detector Base BA1AP

The conduit adapter facilitates surface cabling of a Detector Base B501AP when using cable conduits with an outer diameter of 20 mm. Prior to installation, the conduit adapter is attached to the detector base.



Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP

246160 Wet Base Shroud/200AP WB-1AP

The white wet base shroud is used for mounting the detector bases B501AP, B524HTR-W or B524RTE-W in damp locations. The supplement base is prepared for the use of cable glands PG11 or M16.



Specifications:

Dimensions Ø × H	105 × 70 mm
Weight	100 g
Colour	white

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP
	221	246164	Detector Base/500/200/Heater B524HTR-W

249108 Surface Mounting Box/200AP M200E-SMB

The plastic mounting box is designed for the surface mounting of a module Series M200.



Specifications:

Protection class	IP50
Dimensions L × W × H	132 × 137 × 48 mm
Weight	140 g
Colour	cream brown transparent

249111 Surface Mounting Box/200AP M200E-SMB-KO

The plastic mounting box is designed for the surface mounting of a module Series M200. A protected cable entrance is possible with the help of 5 integrated grommets.



Specifications:

Protection class	IP50
Dimensions L × W × H	132 × 137 × 48 mm
Weight	250 g
Colour	cream brown transparent

249117 Surface Mounting Box/Multi Modules M200-SMB-MM

The powder coated sheet steel mounting box is designed to accommodate a multi module IM-10EA or CR-6EA. On both long sides, 7 knock-outs (Ø 19 mm) each for cable glands PG11 are available.

Specifications:

Dimensions L × W × H	285 × 225 × 62 mm
Weight	2 kg
Colour	grey



249438 Surface Mounting Box SMB6-V0-H

The surface mounting box is made of plastic and is designed to accommodate up to 6 modules Series M200 or one multi module IM-10EA or CR-6EA. The modules Series M200 are plugged into the fastening devices of the box, a multi module is screwed onto the plastic bolts of the housing by means of the included screws. Thanks to the transparent cover of the mounting box, the status LED as well as the address switches of the modules are visible.

Specifications:

Dimensions L × W × H	245 × 76 × 121 mm
Weight	730 g
Colour	white brown transparent



249130 Module housing M244SMB-1

The plastic housing with Plexiglas cover is designed to accommodate a multi module MEA244-1/TR. The module is snapped onto the DIN rail which has been installed in the housing. In addition to the module, the housing can also accommodate a further device – for example a power unit – with a width of up to 70 mm (4M). In order to install threaded cable glands, holes have to be drilled. The cover is sealed by means of the supplied rubber seal.

Specifications:

Protection class	IP65
Dimensions W × H × D	282 × 192 × 96 mm
Weight	780 g
Colour	light grey



Cross-references	Page	Art.No.	Name Type
	205	249092	Module 4xSurv.In 4xSurv.Out/Rail/200I MEA244-1/TR
	206	249128	Module 4xSurv.In 4xSurv.Out/Fail-safe/Rail/200I MEA244-1/FS/TR

249004 Surface Mounting Box SMB500

The plastic mounting box is designed to accommodate a module Series 500 or a wireless module Series 200AP-RF.

Specifications:

Dimensions W × H × D	125 × 124 × 55 mm
Weight	155 g
Colour	cream



Cross-references	Page	Art.No.	Name Type
	363	228007	Protocol Interface/200 IST200

244061 Duct Detector Housing/300 D2E

The duct detector monitors ventilation ducts or air conditioning channels. A small amount of air is conducted into the detector housing via an air inlet pipe, is directed to an optical smoke detector, and is released into the ventilation duct again via the air escape pipe. A detector base, into which an Optical Smoke Detector 2351E can be inserted, is installed in the plastic housing. Connection to the fire detection control panel is achieved via a conventional detector line.



The air inlet pipe is not provided with the duct detector and has to be chosen according to the duct size (see cross-references). The air escape pipe and the red end cap are enclosed with the detector housing. Without using any tools, both pipes can be snapped into place in the duct detector housing, either from inside or from outside, and can just as easily be removed again. In this way, the inlet and outlet openings can be cleaned effortlessly. In order to mount the duct detector on ventilation ducts with circular cross section, with small diameter or with a jacket made of insulating material, the Duct Detector Bracket FI750/DDH-2/BRA can be adapted. For this purpose, additional holes have to be drilled into the duct detector bracket and the duct detector housing.

Features:

- Two-part detector housing allows installation in rectangular or square form
- Transparent cover for optical recognition of detector activation
- Terminal for external remote indicator
- Tamper switch for monitoring of the transparent cover
- Function can be tested using test gas

Specifications:

Protection class	IP40
Ambient temperature	from -20 °C to 60 °C
Air velocity	from 1.5 m/s to 20.3 m/s
Dimensions W × H × D	365 × 125 × 68 mm
Dimensions (alternative installation) W × H × D	197 × 229 × 68 mm
Weight	730 g

Cross-references	Page	Art.No.	Name Type
	281	241040	Optical Smoke Detector/300 2351E
	226	244062	Duct Detector Pipe/0.3m DST1
	226	244063	Duct Detector Pipe/0.45m DST1.5
	227	244064	Duct Detector Pipe/1m DST3
	227	244065	Duct Detector Pipe/1.5m DST5
	227	244066	Duct Detector Pipe/3m DST10
	180	244084	Duct Detector Bracket FI750/DDH-2/BRA-UG-MB-75
	287	246008	Detector Base/400/300/100 B401RM1000

244060 Duct Detector Housing/200 DNRE

The duct detector monitors ventilation ducts or air conditioning channels. A small amount of air is conducted into the detector housing via an air inlet pipe, is directed to an optical smoke detector, and is released into the ventilation duct again via the air escape pipe. A detector base, into which an Optical Smoke Detector ND22051E or ND22051EI can be inserted, is installed in the plastic housing. In applications which require a detector with a very high sensitivity, alternatively an Optical Laser Smoke Detector F-SEN-SSE can be installed. In this case, the integrated detector base must be replaced with the lower base B501. Communication with the fire detection control panel is established via the loop using System Sensor protocol. The air inlet pipe is not provided with the duct detector and has to be chosen according to the duct size (see cross-references). The air escape pipe and the red end cap are enclosed with the detector housing.



Without using any tools, both pipes can be snapped into place in the duct detector housing, either from inside or from outside, and can just as easily be removed again. In this way, the inlet and outlet openings can be cleaned effortlessly.

In order to mount the duct detector on ventilation ducts with circular cross section, with small diameter or with a jacket made of insulating material, the Duct Detector Bracket FI750/DDH-2/BRA can be adapted.

For this purpose, additional holes have to be drilled into the duct detector bracket and the duct detector housing.

Features:

- Two-part detector housing allows installation in rectangular or square form
- Transparent cover for optical recognition of detector activation
- Terminal for external remote indicator
- Tamper switch for monitoring of the transparent cover
- Function can be tested using a magnet or test gas

Specifications:

Protection class	IP40
Ambient temperature	from -20 °C to 60 °C
Air velocity	from 1.5 m/s to 20.3 m/s
Dimensions W × H × D	365 × 125 × 68 mm
Dimensions (alternative installation) W × H × D	197 × 229 × 68 mm
Weight	730 g

Cross-references	Page	Art.No.	Name Type
	183	241110	Optical Smoke Detector/200API ND22051EI
	183	241111	Optical Smoke Detector/200AP ND22051E
	226	244062	Duct Detector Pipe/0.3m DST1
	226	244063	Duct Detector Pipe/0.45m DST1.5
	227	244064	Duct Detector Pipe/1m DST3
	227	244065	Duct Detector Pipe/1.5m DST5
	227	244066	Duct Detector Pipe/3m DST10
	180	244084	Duct Detector Bracket FI750/DDH-2/BRA-UG-MB-75

244062 Duct Detector Pipe/0.3m DST1

The air inlet pipe is designed for use with the Duct Detector Housings DNRE and D2E and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of up to 0.45 m and can be cut to the desired length.

Note: The red end cap is not included in the delivery of the pipe, it is delivered with the duct detector housing.



Specifications:

Dimensions Ø × L	18 × 300 mm
Weight	140 g
Material	steel, galvanised

244063 Duct Detector Pipe/0.45m DST1.5

The air inlet pipe is designed for use with the Duct Detector Housings DNRE and D2E and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of between 0.45 m and 0.6 m and can be cut to the desired length.

Note: The red end cap is not included in the delivery of the pipe, it is delivered with the duct detector housing.



Specifications:

Dimensions Ø × L	18 × 450 mm
Weight	210 g
Material	steel, galvanised

244064 Duct Detector Pipe/1m DST3

The air inlet pipe is designed for use with the Duct Detector Housings DNRE and D2E and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of between 0.6 m and 1.5 m and can be cut to the desired length.

Note: The red end cap is not included in the delivery of the pipe, it is delivered with the duct detector housing.

Specifications:

Dimensions Ø × L	18 × 1000 mm
Weight	470 g
Material	steel, galvanised



244065 Duct Detector Pipe/1.5m DST5

The air inlet pipe is designed for use with the Duct Detector Housings DNRE and D2E and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of between 1.5 m and 2.3 m and can be cut to the desired length.

Note: The red end cap is not included in the delivery of the pipe, it is delivered with the duct detector housing.

Specifications:

Dimensions Ø × L	18 × 1500 mm
Weight	700 g
Material	steel, galvanised



244066 Duct Detector Pipe/3m DST10

The air inlet pipe is designed for use with the Duct Detector Housings DNRE and D2E and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of between 2.3 m and 4.5 m and can be cut to the desired length.

Note: The red end cap is not included in the delivery of the pipe, it is delivered with the duct detector housing.

Specifications:

Dimensions Ø × L	18 × 3000 mm
Weight	1.5 kg
Material	steel, galvanised



359047 Lid for Sounder/200/10pcs IBS-LIDPW-10X

The white cover lid is used to cover and protect a detector base sounder Series IBS and BS if no detector is inserted, as well as to cover a detector base Series 100, 200, 300, 400 or 500 if the detector has been removed permanently.

Specifications:

Dimensions Ø × H	102 × 10 mm
Colour	white



359060 Lid for Sounder 200/FBRI 200/FB/COVER/W

The white cover plate is used to cover and protect a Sounder 200/FBRI/SOUW if no detector base has been installed on the sounder. The cover can be permanently fixed by means of a set screw.

Specifications:

Dimensions Ø × H	106 × 15 mm
Weight	18 g
Colour	white



359051 Base Sounder/Strobe/IP44/red BRR

The supplement base BRR, together with the supplied detector base B501AP, is used for the surface mounting of the sounders and strobes Series WS. The design of the base allows cable entry from the back or from the side. The supplement base increases the depth of the signalling device by 40 mm.

Specifications:

Protection class	IP44
Ambient temperature	from -25 °C to 70 °C
Dimensions Ø × D	122 × 54 mm
Weight (incl. B501AP)	115 g
Colour	red



359052 Base Sounder/Strobe/IP65/red WRR

The supplement base WRR with protection class IP65, together with the supplied detector base B501AP, is used for the surface mounting of the sounders and strobes Series WS. The design of the base allows cable entry from the back or from the side. The supplement base increases the depth of the signalling device by 40 mm.

Specifications:

Protection class	IP65
Ambient temperature	from -25 °C to 70 °C
Dimensions Ø × D	122 × 54 mm
Weight (incl. B501AP)	135 g
Colour	red



359053 Base Sounder/Strobe/IP44/white BPW

The supplement base BPW, together with the supplied detector base B501AP, is used for the surface mounting of the sounders, base sounders and strobes Series WS and BS. The design of the base allows cable entry from the back or from the side. The supplement base increases the depth of the signalling device by 40 mm.

Specifications:

Protection class	IP44
Ambient temperature	from -25 °C to 70 °C
Dimensions Ø × D	122 × 54 mm
Weight (incl. B501AP)	115 g
Colour	white



359054 Base Sounder/Strobe/IP65/white WPW

The supplement base WPW with protection class IP65, together with the supplied detector base B501AP, is used for the surface mounting of the sounders and strobes Series WS. The design of the base allows cable entry from the back or from the side. The supplement base increases the depth of the signalling device by 40 mm.



Specifications:

Protection class	IP65
Ambient temperature	from -25 °C to 70 °C
Dimensions Ø × D	122 × 54 mm
Weight (incl. B501AP)	135 g
Colour	white

7.4 Series Soteria / Discovery / XP95

The fire detection system Series Soteria / Discovery / XP95 comprises manual and automatic fire detectors, modules and signalling devices, which are connected to the fire detection control panel in loop technology and communicate by means of the Apollo protocol. Detectors Series XP95, Discovery and Soteria are downward compatible and can be used together on the same loop – with limitations.

7.4.1 Automatic Detectors

241200 Optical Smoke Detector/CoreI SA5100-600LST

The optical smoke detector operates with an optical sensing chamber based on the principle of scattered light. The new PureLight technology ensures that smoke can be safely distinguished from noise variables. Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – another effective measure for preventing false alarms.



In addition, the response sensitivity and behaviour of the detector can be set on the fire detection control panel to adjust the detector optimally to the respective application. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop. The electronics of the detectors are reliably protected against harmful environmental impact by means of sealing lips or through encapsulation.

Features:

- Response sensitivity and behaviour can be set by selecting one of five levels on the fire detection control panel (1.4 to 2.4 %/m, 5 s and 30 s response time)
- Detector address can be set by means of code card
- Multicoloured LED with 360° visibility indicates the operating conditions
- Mechanical theft protection in the base
- Insect screen
- Terminal for external remote indicator

Specifications:

Current consumption loop typ.	350 µA
Relative humidity (no condensation) max.	95 %
Protection class	IP44
Ambient temperature	from -40 °C to 70 °C
Dimensions Ø × H	100 × 36 mm
Weight	83 g
Colour	white
Approval number CPR	2531-CPR-CSP11333
Approval number VdS	G 216027
Approval number LPCB	010bc/01

Cross-references	Page	Art.No.	Name Type
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

241170 Optical Smoke Detector/CoreI FL5100-600APO

The optical smoke detector uses a chamberless detection technology based on the principle of scattered light. Through the combination of 3 infrared LEDs and 2 photo diodes, smoke particles are detected directly below the detector and are evaluated as alarm. With the modern design that is almost flush with the ceiling, the smoke detector meets even the highest architectural requirements.

The integrated microcontroller evaluates the measured data and ensures that smoke can be safely distinguished from noise variables. In the same way, interference caused by stationary objects (e.g., reflecting furniture) or moving objects (e.g., crawling insects) can be detected reliably and can be output as fault message. At the same time, the intelligent evaluation algorithm compensates for the impact of possible contamination of the light windows. In this way, the response sensitivity of the detector is kept constant for a long time – another effective measure for preventing false alarms. Essential parameters of the detector can be set on the fire detection control panel to adjust the detector optimally to the respective application.

The smoke detector is installed by means of a plastic hollow wall box which also contains the detector base. The detector is connected via a loop with Apollo protocol and is designed for indoor use. If a short circuit occurs on the loop line, an integrated dual-isolator will disconnect the loop.



Features:

- Behaviour can be set by selecting one of five levels on the fire detection control panel (response time in the event of alarm 15 s or 30 s, in the event of fault 10 s, 20 s or 30 s)
- Integrated self test function
- Detector address can be set by means of DIL switch
- Multicoloured LED indicates the operating conditions
- Mechanical theft protection
- Terminal for external remote indicator

Specifications:

Current consumption loop typ.	1 mA
Relative humidity (no condensation) max.	95 %
Protection class	IP55
Ambient temperature	from -20 °C to 55 °C
Dimensions Ø × H	140 × 38 mm
Weight	148 g
Colour	white
Approval number CPR	2531-CPR-CSP10950
Approval number VdS	G 218020

Cross-references	Page	Art.No.	Name Type
	270	246170	Detector Base/FLx100 FL5000-200

241171 Optical Smoke Detector/CoreI FL6100-600APO

The optical smoke detector FL6100-600APO is technically identical to the detector FL5100-600APO, but it differs from it in that it is protected against vandalism by the robust front panel made of coated stainless steel and by using special screws. Therefore, the detector is also well-suited, for example, for penal institutions.

Features:

- Behaviour can be set by selecting one of five levels on the fire detection control panel (response time in the event of alarm 15 s or 30 s, in the event of fault 10 s, 20 s or 30 s)
- Integrated self test function
- Detector address can be set by means of DIL switch
- Multicoloured LED indicates the operating conditions
- Mechanical theft protection



Specifications:

Dimensions Ø × H	170 × 36,5 mm
Weight	321 g
Approval number CPR	2531-CPR-CSP10952
Approval number VdS	G 218021

241201 Optical-Thermal Detector/CoreI SA5100-700LST

The optical-thermal detector operates both with an optical sensing chamber based on the principle of scattered light and with two separate thermal sensors. The new PureLight technology ensures that smoke can be safely distinguished from noise variables. Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – another effective measure for preventing false alarms.

In addition, the response sensitivity and behaviour of the detector can be set on the fire detection control panel to adjust the detector optimally to the respective application. The detector has a pure smoke detector mode, a thermal-only mode according to EN 54-5 Class A1R (rate-of-rise heat detection principle), as well as 3 multisensor levels. In this case, the alarm is evaluated by analysing the measured values of both detection units. If only one of two characteristics of fire – smoke or heat – occurs, false alarms are avoided to a large extent.

The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.

The electronics of the detectors are reliably protected against harmful environmental impact by means of sealing lips or through encapsulation.

Note: In the thermal-only mode the room height is limited to 7.5 m.



Features:

- Response sensitivity and operation mode can be set to one of five levels on the fire detection control panel (smoke only, heat only, 3 multisensor levels)
- Detector address can be set by means of code card
- Multicoloured LED with 360° visibility indicates the operating conditions
- Mechanical theft protection in the base
- Insect screen
- Terminal for external remote indicator

Specifications:

Current consumption loop typ.	350 µA
Relative humidity (no condensation) max.	95 %
Protection class	IP44
Ambient temperature	from -40 °C to 70 °C
Application temperature max.	50 °C
Alarm temperature max.	57 °C
Dimensions Ø × H	100 × 39 mm
Weight	83 g
Colour	white
Approval number CPR	2531-CPR-CSP11334
Approval number VdS	G 216028
Approval number LPCB	010bb/01

Cross-references	Page	Art.No.	Name Type
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

241207 Optical-Thermal Detector/CoreI/black SA5100-760APO

New

As regards functions and features, the optical-thermal detector in the black housing is identical to the optical-thermal detector SA5100-700.



Features:

- Response sensitivity and operation mode can be set to one of five levels on the fire detection control panel (smoke only, heat only, 3 multisensor levels)
- Detector address can be set by means of code card
- Multicoloured LED with 360° visibility indicates the operating conditions
- Mechanical theft protection in the base
- Insect screen

Specifications:

Application temperature max.	50 °C
Alarm temperature	57 °C
Response class EN 54-5	A1R
Dimensions Ø × H	100 × 39 mm
Weight	83 g
Approval number CPR	2531-CPR-CSP10987
Approval number VdS	G 222016
Approval number LPCB	010bb/02

242190 Thermal Detector/CoreI SA5100-400LST

The thermal detector operates with two separate thermal sensors and can be parameterised on the fire detection control panel as Class A1R, A2R or CR rate-of-rise detector, or as Class A2S or CS maximum heat detector. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



The electronics of the detectors are reliably protected against harmful environmental impact by means of sealing lips or through encapsulation.

Note: In Class A1R the maximum room height is 7.5 m, in all other cases it is 6 m.

Features:

- One of five Classes according to EN 54-5 (A1R, A2R, A2S, CR and CS) can be set on the fire detection control panel
- Detector address can be set by means of code card
- Multicoloured LED with 360° visibility indicates the operating conditions
- Mechanical theft protection in the base
- Terminal for external remote indicator

Specifications:

Current consumption loop typ.	350 µA
Relative humidity (no condensation) max.	95 %
Protection class	IP54
Ambient temperature	from -40 °C to 70 °C
Application temperature max.	50 °C (Class A1R, A2R, A2S) 80 °C (Class CR, CS)
Alarm temperature typ.	57 °C (Class A1R) 60 °C (Class A2R, A2S) 90 °C (Class CR, CS)
Dimensions Ø × H	100 × 39 mm
Weight	83 g
Colour	white
Approval number CPR	2531-CPR-CSP11335

Approval number VdS
 Approval number LPCB

 G 216026
 010bd/01

Cross-references	Page	Art.No.	Name Type
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

241204 Multicrit. Detector DAPTCO/CoreI SA5100-810APO

The 3-criteria detector from the Series SOTERIA® contains an optical sensing chamber based on the principle of dual angle scattered light, a temperature sensor according to EN 54-5 Class A1R, as well as a CO sensor. The detector has been tested according to EN 54-31, EN 54-7, EN 54-5 and EN 54-17. The evaluation of all parameters and the integrated comparison of characteristics of fire allow reliable fire detection. The optical evaluation based on the dual angle principle ensures that smoke can be reliably distinguished from noise variables, therefore the immunity to deceptive alarms is increased significantly.



In addition, intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – another effective measure for preventing false alarms.

In addition, the response sensitivity and behaviour of the detector can be set on the fire detection control panel to adjust the detector optimally to the respective application. The detector has a thermal-only mode according to EN 54-5 Class A1R (rate-of-rise heat detection principle), as well as 4 multisensor levels. In this case, the alarm is evaluated by analysing the measured values of the three detection units. If only one of two characteristics of fire – smoke or heat – occurs, false alarms are avoided to a large extent. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop. The electronics of the detectors are reliably protected against harmful environmental impact by means of sealing lips or through encapsulation.

Note: In the thermal-only mode the room height is limited to 7.5 m.

Features:

- Response sensitivity and operation mode can be set to one of five levels on the fire detection control panel (heat only and 4 multisensor levels)
- Detector address can be set by means of DIL switch on the detector in the range between 1 and 254
- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Mechanical theft protection in the base
- Insect screen
- Terminal for external remote indicator

Specifications:

Current consumption loop typ.	600 µA
Relative humidity (no condensation) max.	95 %
Protection class	IP40
Ambient temperature	from -10 °C to 55 °C
Application temperature max.	50 °C
Alarm temperature max.	57 °C
Dimensions Ø × H	103 × 55 mm
Weight	100 g
Colour	white

Cross-references	Page	Art.No.	Name Type
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

241027 Optical Smoke Detector/Disc 58000-600

Not for new systems

The Optical Smoke Detector 58000-600 operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting. Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – another effective measure for preventing false alarms.

In addition, the response sensitivity of the detector can be set through the fire detection control panel to adapt the detector optimally to the respective application.



Features:

- Response sensitivity can be set to one of five levels via the fire detection control panel (1.4 to 2.8 %/m)
- Insect screen
- Physical address can be set in the range 01 to 126 with a code card in the detector base
- Sealed electronics prevent false alarms caused by the environment
- Two LEDs with 360° visibility indicate the activation condition
- Terminal for external remote indicator
- Mechanical theft protection in the base

Specifications:

Current consumption loop typ.	400 µA
Relative humidity (no condensation)	from 0 % to 95 %
Protection class	IP44
Ambient temperature	from -20 °C to 60 °C
Dimensions Ø × H	100 × 42 mm
Weight	105 g
Colour	white
Approval number CPR	2531-CPR-CSP10942
Approval number VdS	G 299037
Approval number LPCB	010q/03

Cross-references	Page	Art.No.	Name Type
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

241022 Optical-Thermal Detector/Disc 58000-700

Not for new systems

The optical-thermal detector operates both with an optical sensing chamber based on the principle of scattered light and with a temperature sensor based on the rate-of-rise heat detection principle according to EN 54-5 Class A1R. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting. The alarm evaluation is based on the analysis of the measured values from both detection units; if only one of the characteristics of fire – smoke or heat – occurs, false alarms can be mostly avoided.

Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – another effective measure for preventing false alarms.

In addition, the response sensitivity of the detector can be set through the fire detection control panel to adapt the detector optimally to the respective application. Please note that in the thermal only mode, the device must not be used if the room height exceeds 7.5 m.



Features:

- Response sensitivity and operation mode can be set to one of five levels via the fire detection control panel (smoke only, heat only, 3 multisensor levels)
- Insect screen
- Physical address can be set in the range 01 to 126 with a code card in the detector base
- Sealed electronics prevent false alarms caused by the environment

- Two LEDs with 360° visibility indicate the activation condition
- Terminal for external remote indicator
- Mechanical theft protection in the base

Specifications:

Current consumption loop typ.	500 µA
Relative humidity (no condensation) max.	95 %
Protection class	IP44
Ambient temperature	from -20 °C to 60 °C
Application temperature max.	50 °C
Alarm temperature max.	58 °C
Dimensions Ø × H	100 × 50 mm
Weight	105 g
Colour	white
Approval number CPR	2531-CPR-CSP10946
Approval number VdS	G 299038
Approval number LPCB	010h/01

Cross-references	Page	Art.No.	Name Type
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

242028 Thermal Detector/Discovery 58000-400

Not for new systems

The thermal detector can be parameterised on the fire detection control panel as Class A1R or CR rate-of-rise detector, or as Class A2, A2S or CS maximum heat detector. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting. In Class A1R the maximum room height is 7.5 m, in all other cases it is 6 m.



Features:

- One of five Classes (A1R, A2, A2S, CR and CS) can be set by the fire detection control panel
- Physical address can be set in the range 01 to 126 with a code card in the detector base
- Sealed electronics prevent false alarms caused by the environment
- Two LEDs with 360° visibility indicate the activation condition
- Terminal for external remote indicator
- Mechanical theft protection in the base

Specifications:

Current consumption loop typ.	500 µA
Relative humidity (no condensation) max.	95 %
Protection class	IP54
Ambient temperature	from -20 °C to 80 °C
Application temperature max.	50 °C (Class A1R, A2, A2S) 80 °C (Class CR, CS)
Alarm temperature typ.	58 °C (Class A1R) 61 °C (Class A2, A2S) 90 °C (Class CR, CS)
Dimensions Ø × H	100 × 42 mm
Weight	105 g
Colour	white
Approval number CPR	2531-CPR-CSP10936
Approval number VdS	G 299039
Approval number LPCB	010p/03

Cross-references	Page	Art.No.	Name Type
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

243100 Carbon Monoxide Detector/Discovery 58000-300

Not for new systems

The addressable CO detector contains a durable electro-chemical carbon monoxide sensor and therefore the detector is ideally suited for the detection of smouldering fires or as supplement to optical smoke detectors. The detector is designed for use on the loop with Apollo protocol and is intended for indoor mounting.



Features:

- One of five sensitivity levels can be set via the fire detection control panel
- Physical address can be set in the range 01 to 126 with a code card in the detector base
- Sealed electronics prevent false alarms caused by the environment
- Two LEDs with 360° visibility indicate the activation condition
- Terminal for external remote indicator
- Mechanical theft protection in the base

Specifications:

Current consumption loop typ.	400 µA
Relative humidity (no condensation)	from 15 % to 90 %
Protection class	IP54
Ambient temperature	from 0 °C to 40 °C
Dimensions Ø × H	100 × 42 mm
Weight	105 g
Colour	white

Cross-references	Page	Art.No.	Name Type
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

243101 CO thermal Detector/Discovery 58000-305

Not for new systems

The addressable multisensor detector contains both a durable electrochemical carbon monoxide sensor and a temperature sensor. Therefore, the multisensor detector is very well suited for use in special applications such as garages, multi-storey car parks and as supplement to optical smoke detectors. By means of the long-life carbon monoxide sensor, even slowly developing smouldering fires can be reliably detected. The thermal unit reacts to temperature changes within defined periods of time (rate-of-rise principle according to Class A1R) as well as to a maximum temperature of 58 °C. The detector is designed for use on the loop with Apollo protocol and is intended for indoor mounting.



Features:

- One of five sensitivity levels can be set via the fire detection control panel
- Physical address can be set in the range 01 to 126 with a code card in the detector base
- Sealed electronics prevent false alarms caused by the environment
- Two LEDs with 360° visibility indicate the activation condition
- Terminal for external remote indicator
- Mechanical theft protection in the base

Specifications:

Current consumption loop typ.	400 µA
Relative humidity (no condensation)	from 15 % to 90 %
Protection class	IP44
Ambient temperature	from 0 °C to 40 °C
Alarm temperature max.	58 °C
Dimensions Ø × H	100 × 54 mm
Weight	105 g
Colour	white

Approval number CPR	2531-CPR-CSP10932
Approval number VdS	G 215018
Approval number LPCB	010aq/01

Cross-references	Page	Art.No.	Name Type
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

241023 Optical Smoke Detector/XP95 55000-620

Not for new systems

The optical smoke detector operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting.

Intelligent evaluation algorithms in the respective LST fire detection control panels compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – another effective measure for preventing false alarms.



Features:

- Terminal for external remote indicator
- Insect screen
- Physical address can be set in the range 01 to 126 with a code card in the detector base
- Sealed electronics prevent false alarms caused by the environment
- Mechanical theft protection

Specifications:

Current consumption loop typ.	340 μ A
Relative humidity (no condensation) max.	95 %
Ambient temperature	from -20 °C to 60 °C
Dimensions $\varnothing \times H$	100 \times 42 mm
Weight	105 g
Colour	white
Approval number CPR	2531-CPR-CSP10924
Approval number VdS	G 294028
Approval number LPCB	010q/19

Cross-references	Page	Art.No.	Name Type
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

242023 Thermal Detector/XP95 55000-420

Not for new systems

The thermal detector can be parameterised on the fire detection control panel as Class A1R rate-of-rise detector or as Class A2S maximum heat detector. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting up to a maximum room height of 6 m. Note: According to the Construction Products Directive CPD, the detector has only been approved for use as maximum heat detector!



Features:

- Continuous transmission of the current measured value to the fire detection control panel
- Terminal for external remote indicator
- Physical address can be set in the range 01 to 126 with a code card in the detector base
- Sealed electronics prevent false alarms caused by the environment
- Mechanical theft protection

Specifications:

Current consumption loop typ.	250 μ A
Relative humidity (no condensation) max.	95 %

Protection class	IP53
Ambient temperature	from -20 °C to 70 °C
Application temperature max.	50 °C
Alarm temperature	55 °C
Dimensions Ø × H	100 × 42 mm
Weight	105 g
Colour	white
Approval number CPR	2531-CPR-CSP10913
Approval number VdS	G 294029
Approval number LPCB	010p/22

Cross-references	Page	Art.No.	Name Type
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

7.4.2 Manual Call Points

240602 MCP/red/XP95 HME/3000/32/H1/02

The manual call point according to EN 54-11 / type B in the aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Apollo protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button.



Features:

- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Button in combination with LED for setting the address from 1 to 126
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	180 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	flame red, RAL 3000
Approval number CPR	0786-CPR-21600
Approval number VdS	G 218056

Cross-references	Page	Art.No.	Name Type
	314	249633	Protective Cover V2A for MCP/Red WG/ROT-E-1
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240138 MCP/red/XP95/FEUER HME/3000/32/52/02/IP65

As regards the function and cross-references, this red manual call point is identical to the Manual Call Point HME/3000/32/H1/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Features:

- Changeable door label with house symbol + „FEUER“, with house symbol on the reverse

Specifications:

Protection class	IP65
Dimensions W × H × D	127 × 127 × 35 mm
Weight	450 g
Approval number CPR	0786-CPR-21600
Approval number VdS	G 218056



240622 MCP/blue/XP95/HAUSALARM HME/5015/32/02/02

The manual call point in the blue aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Apollo protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button.

Features:

- Door label „HAUSALARM“, replaceable
- Latching (default) or non-latching push button
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Button in combination with LED for setting the address from 1 to 126
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optionally available with protection class IP65
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	180 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	sky blue, RAL 5015



Cross-references	Page	Art.No.	Name Type
	314	249634	Protective Cover V2A for MCP/blue WG/BLAU-E-1
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240166 MCP/blue/XP95/HAUSALARM HME/5015/32/02/02/IP65

As regards the function and cross-references, this blue manual call point is identical to the Manual Call Point HME/5015/32/02/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Features:

- Door label „HAUSALARM“, replaceable
- 2 cable glands M20 × 1.5 mm, 1 dummy cable gland
- Latching (default) or non-latching push button

Specifications:

Protection class	IP65
Dimensions W × H × D	127 × 127 × 35 mm
Weight	450 g



240632 MCP/yellow/XP95/HANDAUSLÖS. HME/1021/32/17/02

The manual call point in the yellow aluminium die-cast design housing operates as electrical activation device for extinguishing systems using gaseous or other extinguishing agents and is implemented in loop technology. For the bi-directional loop communication, the Apollo protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to the standards EN 54-17 and EN 12094-3.

Features:

- Changeable door label „HANDAUSLÖSUNG Gaslöschanlage“ according to EN 12094-3, with „HANDAUSLÖSUNG Feuerlöschanlage“ according to VdS 2496 on the reverse
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Button in combination with LED for setting the address from 1 to 126
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optionally available with protection class IP65
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	180 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	rape yellow, RAL 1021
Approval number CPR	0786-CPR-21601
Approval number VdS	G 218057



Cross-references	Page	Art.No.	Name Type
	314	249636	Protective Cover V2A for MCP/yellow WG/GELB-E-1
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240139 MCP/yellow/XP95/HANDAUSLÖS. HME/1021/32/17/02/IP65

As regards the function and cross-references, this yellow manual call point is identical to the Manual Call Point HME/1021/32/17/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Features:

- Changeable door label „HANDAUSLÖSUNG Gaslöschanlage“ according to EN 12094-3, with „HANDAUSLÖSUNG Feuerlöschanlage“ according to VdS 2496 on the reverse
- 2 cable glands M20 × 1.5 mm, 1 dummy cable gland

Specifications:

Protection class	IP65
Dimensions W × H × D	127 × 127 × 35 mm
Weight	450 g
Approval number CPR	0786-CPR-21601
Approval number VdS	G 218057



240642 MCP/blue/XP95/STOPP HME/5015/32/18/02

The manual call point in the blue aluminium die-cast design housing operates as electrical emergency hold device for extinguishing systems using gaseous or other extinguishing agents and is implemented in loop technology. For the bi-directional loop communication, the Apollo protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to the standards EN 54-17 and EN 12094-3.

Features:

- Door label „STOPP-TASTER Gaslöschanlage“, replaceable
- Non-latching push button
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Button in combination with LED for setting the address from 1 to 126
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optionally available with protection class IP65
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	180 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	sky blue, RAL 5015
Approval number CPR	0786-CPR-21602
Approval number VdS	G 218058



Cross-references	Page	Art.No.	Name Type
	314	249634	Protective Cover V2A for MCP/blue WG/BLAU-E-1
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1

Cross-references	Page	Art.No.	Name Type
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240167 MCP/blue/XP95/STOPP HME/5015/32/18/02/IP65

As regards the function and cross-references, this blue manual call point is identical to the Manual Call Point HME/5015/32/18/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Features:

- Door label „STOPP-TASTER Gaslöschanlage“, replaceable
- 2 cable glands M20 × 1.5 mm, 1 dummy cable gland
- Non-latching push button

Specifications:

Protection class	IP65
Dimensions W × H × D	127 × 127 × 35 mm
Weight	450 g
Approval number CPR	0786-CPR-21602
Approval number VdS	G 218058



240690 MCP/green/XP95/AUSL.BFS HME/6002/32/29/02

The manual call point in the green aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Apollo protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button.

Depending on which side of the replaceable door label that has text printed on both sides is visible, the manual call point can be used for the following functions:

- Door label „Auslösung Brandfallsteuerungen“ (delivery condition): The manual call point is required according to ÖNORM F 3001 for manually overriding fire controls. The device is to be connected to the fire control panel.
- Door label „Aufzug Brandfallsteuerung“ (reverse): The manual call point is required according to TRVB S 111 for actuating lifts in the event of fire. The device is to be connected to the lift control or – if the building is equipped with a fire detection system – to the fire control panel.

Features:

- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Button in combination with LED for setting the address from 1 to 126
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	180 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g



RAL colour leaf green, RAL 6002

Cross-references	Page	Art.No.	Name Type
	316	249135	Flush Mounting Kit HME-UP1

240794 MCP/white/XP95/NOTFALL HME/1013/32/40/00

The manual call point in the white aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Apollo protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The call point is activated by breaking the glass pane and pressing the button.

The manual call point is designed for connection to an emergency and danger response system according to VDE 0827-1 and is used if quick alarming of the helping forces is required.



Features:

- Blue user interface with operating instructions in the form of white symbols (EN 54-11)
- Door label „NOTFALL“, replaceable, optionally „POLIZEI-NOTRUF“
- Latching (default) or non-latching push button
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Button in combination with LED for setting the address from 1 to 126
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optionally available with protection class IP65
- Optional protective cover can provide additional mechanical protection

Specifications:

Current consumption loop typ.	180 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	oyster white, RAL 1013

Cross-references	Page	Art.No.	Name Type
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

245090 Manual Call Point/Red/CoreI SA5900-908APO

The manual call point according to EN 54-11 / type A is designed for use on the loop with Apollo protocol. It is activated by pressing in the plastic pane without breaking it. By means of the supplied special key, the call point is reset and the pane is placed into the idle position. A multicoloured LED indicates the activation in red, a fault in yellow, and the loop polling in green. The device is accommodated in a red plastic housing and can be mounted either on a 60 mm flush-mount installation box or on the wall, using the provided surface-mount case.



Features:

- Activation by pressing in plastic pane without breaking it

- Call point housing can be opened only with a special key (included)
- Pluggable screw terminals
- Dual-isolator
- Operating instructions in the form of symbols (EN 54-11)
- Address can be set with a DIL switch

Specifications:

Current consumption loop typ.	100 µA
Relative humidity (no condensation) max.	95 %
Protection class	IP44
Ambient temperature	from -40 °C to 70 °C (no icing)
Dimensions W × H × D	90 × 90 × 63 mm
Dimensions (what protrudes in case of flush mounting) W × H × D	90 × 90 × 28 mm
Weight	180 g
Colour	red
Approval number CPR	2531-CPR-CSP11022
Approval number VdS	G 216017

Cross-references	Page	Art.No.	Name Type
	319	245093	Hinged Cover for MCP/95/CORE/Pack 10pcs. 44251-175

245091 Manual Call Point/Red/DiscI/IP67 58200-951

The manual call point according to EN 54-11 / type A is accommodated in a red plastic housing and is designed for use on the loop with Apollo protocol. Thanks to its dust and water protected design with protection class IP67, the manual call point is suitable for use under harsh environmental conditions. It is activated by pressing in the plastic pane without breaking it. By means of the supplied special key, the call point is reset and the pane is placed into the idle position. A multicoloured LED indicates the activation in red, the isolator operation in yellow, and the loop polling in green.



Features:

- Activation by pressing in plastic pane without breaking it
- Pluggable screw terminals
- Dual-isolator
- Operating instructions in the form of symbols (EN 54-11)
- Address can be set with a DIL switch

Specifications:

Current consumption loop typ.	100 µA
Relative humidity (no condensation) max.	95 %
Protection class	IP67
Ambient temperature	from -40 °C to 70 °C (no icing)
Dimensions W × H × D	110 × 110 × 74 mm
Weight	180 g
Colour	red
Approval number CPR	0905-CPR-00186

7.4.3 Modules

249330 Input Module 1xIN/CoreI SA4700-100APO

The module is integrated into a loop with Apollo protocol and provides a line-monitored input for the connection of contact detectors. That makes it easy to integrate manual call points, sprinkler system contacts or supervising contacts into a fire detection system with loop technology. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- Two multicoloured status LEDs indicate the activation or fault condition as well as the loop polling and the isolator function
- Input monitored for wire breakage and short circuit
- Optional priority mode for the connection of manual call points
- Optional alarm delay
- Module address can be set with a DIL switch

Specifications:

Current consumption loop typ.	500 μ A
Current consumption loop max.	2 mA (LEDs active)
Relative humidity (no condensation)	from 0 % to 95 %
Protection class	IP52
Ambient temperature	from -40 °C to 70 °C
Dimensions W \times H \times D	150 \times 90 \times 60 mm
Weight	240 g
Colour	white
Approval number CPR	2531-CPR-CSP10991
Approval number VdS	G 217055
Approval number LPCB	010ah/11

249335 Input Module 1xIN/CoreI/DIN SA4700-300APO

The input module SA4700-300APO is technically identical to the module SA4700-100APO, but it is designed for mounting on a 35 mm DIN rail.



Features:

- Two multicoloured status LEDs indicate the activation or fault condition as well as the loop polling and the isolator function
- Input monitored for wire breakage and short circuit
- Optional priority mode for the connection of manual call points
- Optional alarm delay

Specifications:

Dimensions W \times H \times D	33 \times 102 \times 33 mm
Weight	46 g
Approval number CPR	2531-CPR-CSP10991
Approval number VdS	G 217059
Approval number LPCB	010ah/12

249334 Input Module 2xIN/CoreI SA6700-100APO

The module is integrated into a loop with Apollo protocol and consists of two separate input modules in a common housing. Every module provides a line-monitored input for the connection of contact detectors. That makes it easy to integrate manual call points, sprinkler system contacts or supervising contacts into a fire detection system with loop technology. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- Two multicoloured status LEDs per module indicate the activation or fault condition as well as the loop polling and the isolator function
- Inputs monitored for wire breakage and short circuit
- Optional priority mode for the connection of manual call points
- Optional alarm delay
- Module address can be set with a DIL switch

Specifications:

Current consumption loop typ.	500 μ A (per module)
Current consumption loop max.	2 mA (LEDs active, per module)
Relative humidity (no condensation)	from 0 % to 95 %
Protection class	IP52
Ambient temperature	from -40 °C to 70 °C
Dimensions W \times H \times D	150 \times 90 \times 60 mm
Weight	270 g
Colour	white
Approval number CPR	2531-CPR-CSP11050
Approval number VdS	G 217062
Approval number LPCB	010ah/22

249331 Module 1xIN 1xREL/CoreI SA4700-102APO

The module is integrated into a loop with Apollo protocol and provides a line-monitored input for the connection of contact detectors, as well as a dry relay output. By means of the input, manual call points, sprinkler system contacts or supervising contacts can be easily integrated into a fire detection system in loop technology. The output can be used to actuate external devices (e.g., fire controls). If the module is used on an LIF601-2, the output can – in the course of parameterisation – be switched to the so-called fail-safe mode. In this case, the output will be activated and thus enter the safe state if the loop communication or the loop voltage fails. In the event of an update, the function can be briefly suppressed for all outputs of the BC600 that have been set in this way, and thus the activation of all outputs can be prevented. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- Failsafe mode can be optionally activated if it is used with a LIF601-2
- Three multicoloured status LEDs indicate the condition of the input and of the output, as well as the loop polling and the isolator function
- Input monitored for wire breakage and short circuit
- Relay output with dry change-over contact
- Module address can be set with a DIL switch

Specifications:

Current consumption loop typ.	500 μ A
Current consumption loop max.	3.5 mA (LEDs active)
Contact rating	1 A / 30 VDC/AC
Relative humidity (no condensation)	from 0 % to 95 %
Protection class	IP52

Ambient temperature	from -40 °C to 70 °C
Dimensions W × H × D	150 × 90 × 60 mm
Weight	245 g
Colour	white
Approval number CPR	2531-CPR-CSP10991
Approval number VdS	G 217056
Approval number LPCB	010ah/13

249336 Module 1xIN 1xREL/CoreI/DIN SA4700-302APO

The module SA4700-302APO is technically identical to the module SA4700-102APO, but the housing is designed for mounting on a 35 mm DIN rail.



Features:

- Failsafe mode can be optionally activated if it is used with a LIF601-2
- Three multicoloured status LEDs indicate the condition of the input and of the output, as well as the loop polling and the isolator function
- Input monitored for wire breakage and short circuit
- Relay output with dry change-over contact

Specifications:

Dimensions W × H × D	33 × 102 × 33 mm
Weight	49 g
Approval number CPR	2531-CPR-CSP10991
Approval number VdS	G 217060
Approval number LPCB	010ah/14

249332 Module 2xIN 1xREL/CoreI SA4700-103APO

The module is integrated into a loop with Apollo protocol and provides two separate line-monitored inputs for the connection of contact detectors, as well as a dry relay output. By means of the inputs, manual call points, sprinkler system contacts or supervising contacts can be easily integrated into a fire detection system in loop technology. The output can be used to actuate external devices (e.g., fire controls). If the module is used on an LIF601-2, the output can – in the course of parameterisation – be switched to the so-called fail-safe mode. In this case, the output will be activated and thus enter the safe state if the loop communication or the loop voltage fails. In the event of an update, the function can be briefly suppressed for all outputs of the BC600 that have been set in this way, and thus the activation of all outputs can be prevented. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- Failsafe mode can be optionally activated if it is used with a LIF601-2
- Four multicoloured status LEDs indicate the condition of each input and of the output, as well as the loop polling and the isolator function
- Inputs monitored for wire breakage and short circuit
- Relay output with dry change-over contact 250 VAC
- Module address can be set with a DIL switch

Specifications:

Current consumption loop typ.	700 µA
Current consumption loop max.	5.2 mA (LEDs active)
Contact rating	5 A / 30 VDC or 250 VAC
Relative humidity (no condensation)	from 0 % to 95 %
Protection class	IP54
Ambient temperature	from -40 °C to 70 °C

Dimensions W × H × D	150 × 90 × 60 mm
Weight	300 g
Colour	white
Approval number CPR	2531-CPR-CSP11049
Approval number VdS	G 217057
Approval number LPCB	010ah/19

249333 Module 2xIN 2xREL/CoreI SA4700-104APO

The module is integrated into a loop with Apollo protocol and consists of two separate input/output modules in a common housing. Every module provides a line-monitored input for the connection of contact detectors, as well as a dry relay output. By means of the inputs, manual call points, sprinkler system contacts or supervising contacts can be easily integrated into a fire detection system in loop technology. The outputs can be used to actuate external devices (e.g., fire controls). If the module is used on an LIF601-2, the outputs can – in the course of parameterisation – be switched to the so-called fail-safe mode. In this case, the output will be activated and thus enter the safe state if the loop communication or the loop voltage fails. In the event of an update, the function can be briefly suppressed for all outputs of the BC600 that have been set in this way, and thus the activation of all outputs can be prevented. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop.



Features:

- Failsafe mode can be optionally activated if it is used with a LIF601-2
- Three multicoloured status LEDs per module indicate the condition of the input and of the output, as well as the loop polling and the isolator function
- Inputs monitored for wire breakage and short circuit
- Relay outputs with dry change-over contact
- The module address can be individually set for each module with a DIL switch

Specifications:

Current consumption loop typ.	500 µA (per module)
Current consumption loop max.	3.5 mA (LEDs active, per module)
Contact rating	1 A / 30 VDC/AC
Relative humidity (no condensation)	from 0 % to 95 %
Protection class	IP52
Ambient temperature	from -40 °C to 70 °C
Dimensions W × H × D	150 × 90 × 60 mm
Weight	280 g
Colour	white
Approval number CPR	2531-CPR-CSP11050
Approval number VdS	G 217058
Approval number LPCB	010ah/21

249079 Monitor Module/XP95I/Mini 55000-760

The addressable compact mini module is used for the line-monitored connection of contact detectors (e.g., sprinkler system contacts, supervising contacts) to a loop with Apollo protocol.

The module can be optionally used with an interrupt mode if prioritised reporting is needed – for example, for transmitting an alarm from a manual call point. In addition to the conditions NORMAL, FAULT and ALARM, the module also processes the PRE-ALARM condition. As a result, the module supports the connection of detectors which allow separate evaluation of alarm and pre-alarm.

The monitor module is provided with an integrated dual-isolator and is designed for DIN rail mounting. Screw terminals are used for connection.



Features:

- Red status LED indicates activation
- Green status LED indicates the loop communication
- Yellow status LED indicates short circuit on the loop or fault
- Prepared for DIN rail mounting
- Physical address can be set in the range 01 to 126 by means of address switch

Specifications:

Current consumption loop typ.	200 µA
Ambient temperature	from -20 °C to 70 °C
Dimensions L × W × H	42 × 42 × 20 mm
Weight	30 g
Colour	white
Approval number CPR	2531-CPR-CSP11042
Approval number VdS	G 210034
Approval number LPCB	010ah/09

249073 Control Module/XP95I 55000-852

The addressable module with integrated dual-isolator is used for the line-monitored actuation of external devices (e.g., fire controls, acoustic and optical signalling devices) via the bi-directional communication on the loop with Apollo protocol. A monitored output can be used as actuation output. An external supply voltage has to be applied for the power supply of the external devices.



Features:

- Monitoring of the external supply voltage
- Physical address can be set in the range 01 to 126 by means of address switch

Specifications:

Operating voltage	from 20 VDC to 32 VDC
Current consumption loop typ.	1.9 mA
Output current max.	1 A
Protection class	IP54
Ambient temperature	from -20 °C to 70 °C
Dimensions L × W × H	150 × 90 × 48 mm
Weight	240 g
Colour	white
Approval number CPR	2531-CPR-CSP11144
Approval number VdS	G 201095
Approval number LPCB	010ah/08

249075 Conventional Zone Module/XP95I 55000-845

The conventional zone module is integrated into a loop with Apollo protocol and provides a line-monitored detector line for the connection of conventional detectors.



Features:

- Physical address can be set in the range 01 to 126 by means of address switch

Specifications:

Current consumption max.	1 mA (conventional line)
Current consumption loop typ.	4 mA
Protection class	IP54

Ambient temperature	from -20 °C to 70 °C
Dimensions L × W × H	150 × 90 × 48 mm
Weight	230 g
Colour	white
Approval number CPR	2531-CPR-CSP11143
Approval number VdS	G 201094
Approval number LPCB	010ah/05

249029 Isolator Module/XP95/Discovery ISM1-3 **Not for new systems**

The isolator module is used for the connection to a loop with Apollo protocol. If a short circuit occurs between two isolator modules, they separate the area experiencing a fault from the loop and ensure operation of all detectors and modules outside this area. For optimum availability of the loop elements, the detector zones on the loop should be separated from each other by isolator modules.



Features:

- LED indicates activation
- Installation in commercially available installation boxes, on a mounting bracket or on a mounting plate

Specifications:

Current consumption max.	200 µA
Ambient temperature	from -5 °C to 50 °C
Dimensions L × W × H	70 × 24 × 15 mm
Weight	20 g
Approval number CPR	0786-CPD-21030
Approval number VdS	G 212164

7.4.4 Optical and Acoustic Devices

355139 Sounder/WM/XP95I/red/100 55000-001

The addressable multitone sounder is integrated in a red plastic housing, and thanks to its dust and water protected design with protection class IP65, it is suitable for use under harsh environmental conditions. The unit is actuated and powered via the loop with Apollo protocol.

The integrated dual-isolator disconnects the loop in the event of a short circuit on the loop line. A short circuit on the loop is indicated by a yellow status LED. If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone.

Depending on the parameter setup of the fire detection control panel and the system condition, the control panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch – one of three different combinations can be selected.



Features:

- 3 different tone type combinations selectable with DIL switch (e.g., continuous tone 900 Hz, DIN 33404 tone 1200-500 Hz, Slow Whoop tone 500-1200 Hz)
- Adjustable sound level
- Address is easily set with DIL switch

Specifications:

Current consumption loop typ.	330 µA (quiescent)
Current consumption loop max.	5 mA (active)
Relative humidity (no condensation) max.	95 %
Protection class	IP65
Ambient temperature	from -10 °C to 55 °C
Sound level max.	90 dB(A)/1 m
Dimensions Ø × D	98 × 105 mm
Weight	225 g
Colour	red
Approval number CPR	2831-CPR-F2103
Approval number VdS	G 212187

355140 Sounder/WM/XP95I/white/100 55000-002

The addressable multitone sounder 55000-002 is identical with the Sounder 55000-001, except that the 55000-002 is accommodated in a white plastic housing.

Specifications:

Protection class	IP65
Sound level max.	90 dB(A)/1 m
Dimensions Ø × D	98 × 105 mm
Weight	225 g
Approval number CPR	2831-CPR-F2103
Approval number VdS	G 212187



355360 Sounder/WB/CoreI/MT SA5300-300

The addressable multitone sounder has an integrated detector base. The unit is actuated and powered via the loop with Apollo Core protocol. The sounder is inserted into the Detector Base SA5000-200 and can be mechanically protected against theft. The address is set by means of a code card in the detector base. Therefore the signalling device can be changed without additional tools. If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop. A short circuit on the loop is indicated by a yellow status LED.

With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. For this purpose, the sound level and one of 15 different tone type combinations are selected in the parameter setup. As a result, the sounder can be activated with tone type 1 or 2 of the respective combination, depending on the parameter setup of the control panel and the system conditions.

Features:

- 15 tone type combinations (e.g., DIN 33404 tone, Slow Whoop tone, continuous tone 970 Hz)
- 7 sound levels
- Address of sounder is easily set with code card in the detector base

Specifications:

Current consumption loop typ.	1 mA (quiescent)
Current consumption loop max.	6.85 mA (active)
Relative humidity (no condensation) max.	95 %
Protection class	IP44
Ambient temperature	from -20 °C to 70 °C
Sound level max.	90 dB(A)/1 m
Dimensions Ø × D	110 × 46 mm
Weight	191 g
Colour	white
Approval number CPR	2531-CPR-CSP11041



Approval number VdS

G 221038

Cross-references	Page	Art.No.	Name Type
	275	359020	Lid for Detector Base Sounder/white 45681-292
	275	359021	Lid for Detector Base Sounder/red 45681-293
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

355156 Sounder/WB/DiscI/MT 45681-702

The addressable base sounder is integrated in a round white plastic housing and is designed for indoor ceiling mounting. The integrated detector base can accommodate fire detectors Series XP95, Discovery and Soteria.

The sounder is actuated and powered via the loop with Apollo protocol. If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. For this purpose, the sound level and one of 15 different tone type combinations are selected in the parameter setup. As a result, the sounder can be activated with tone type 1 or 2 of the respective combination, depending on the parameter setup of the control panel and the system conditions. The unit contains a dual-isolator.



Features:

- 15 tone type combinations (e.g., DIN 33404 tone, Slow Whoop tone, continuous tone 970 Hz)
- 7 sound levels
- Address of sounder is set via DIL switch
- Detector address is easily set with code card in the detector base
- Low power consumption

Specifications:

Current consumption loop typ.	370 µA (quiescent)
Current consumption loop max.	5.5 mA (active)
Protection class	IP21
Ambient temperature	from -20 °C to 60 °C
Sound level max.	79 dB(A)/1 m
Dimensions Ø × H	115 × 38 mm
Weight	140 g
Colour	white
Approval number CPR	2531-CPR-CSP11166
Approval number VdS	G 215029

Cross-references	Page	Art.No.	Name Type
	275	359020	Lid for Detector Base Sounder/white 45681-292
	275	359021	Lid for Detector Base Sounder/red 45681-293
	275	359022	Mounting Plate for Sounder/WB/XP95/Disc 45681-311

355133 Sounder/WB/XP95I/white/Alert 45681-277

The addressable base sounder is integrated in a round white plastic housing and is designed for indoor surface mounting. The integrated detector base can accommodate fire detectors Series XP95, Discovery and Soteria.

The sounder is actuated and powered via the loop with Apollo protocol. If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

Depending on the parameter setup of the fire detection control panel and the system condition, the control panel can activate tone A or B. The unit contains a dual-isolator.



Features:

- Tone A: alternating tone (581 Hz for 0.5 s, 870 Hz for 0.5 s)
- Tone B: interrupted tone 870 Hz (1 s ON, 1 s OFF)
- Low power consumption
- Sound level adjustable via DIL switch
- Detector address is easily set with code card in the detector base

Specifications:

Current consumption loop typ.	200 µA (quiescent)
Current consumption loop max.	5 mA (active)
Protection class	IP21
Ambient temperature	from -20 °C to 60 °C
Sound level max.	75 dB(A)/1 m
Dimensions Ø × H	115 × 38 mm
Weight	140 g
Colour	white
Approval number CPR	2531-CPR-CSP11032

355131 Sounder/WB/XP95I/white/SlowWhoop 45681-290

The addressable base sounder is integrated in a round white plastic housing and is designed for indoor surface mounting. The integrated detector base can accommodate fire detectors Series XP95, Discovery and Soteria.

The sounder is actuated and powered via the loop with Apollo protocol. If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

Depending on the parameter setup of the fire detection control panel and the system condition, the control panel can activate tone A or B. The unit contains a dual-isolator.

Features:

- Tone A: Slow Whoop tone NEN 2575 (500 - 1200 Hz over 3.5 s, 0.5 s pause)
- Tone B: continuous tone 870 Hz
- Low power consumption
- Sound level adjustable via DIL switch
- Detector address is easily set with code card in the detector base

Specifications:

Current consumption loop typ.	200 µA (quiescent)
Current consumption loop max.	5 mA (active)
Protection class	IP21
Ambient temperature	from -20 °C to 60 °C
Sound level max.	81 dB(A)/1 m
Dimensions Ø × H	115 × 38 mm
Weight	140 g
Colour	white
Approval number CPR	2531-CPR-CSP11036

355132 Sounder/WB/XP95I/white/DIN 45681-300

The addressable base sounder is integrated in a round white plastic housing and is designed for indoor surface mounting. The integrated detector base can accommodate fire detectors Series XP95, Discovery and Soteria.

The sounder is actuated and powered via the loop with Apollo protocol. If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone. Depending on the parameter setup of the fire detection control panel and the system condition, the control panel can activate tone A or B. The unit contains a dual-isolator.



Features:

- Tone A: DIN tone (DIN 33404; 1200-500 Hz over 1 s)
- Tone B: continuous tone 870 Hz
- Low power consumption
- Sound level adjustable via DIL switch
- Detector address is easily set with code card in the detector base

Specifications:

Current consumption loop typ.	200 µA (quiescent)
Current consumption loop max.	5 mA (active)
Protection class	IP21
Ambient temperature	from -20 °C to 60 °C
Sound level max.	78 dB(A)/1 m
Dimensions Ø × H	115 × 38 mm
Weight	140 g
Colour	white
Approval number CPR	2531-CPR-CSP11039
Approval number VdS	G 207009

Cross-references	Page	Art.No.	Name Type
	275	359020	Lid for Detector Base Sounder/white 45681-292
	275	359021	Lid for Detector Base Sounder/red 45681-293
	275	359022	Mounting Plate for Sounder/WB/XP95/Disc 45681-311

355130 Sounder/WB/XP95RI/white/Alert 45681-276

The detector base sounder 45681-267 is integrated in a round white plastic housing and is designed for indoor mounting. The integrated detector base can accommodate automatic fire detectors Series XP95, Discovery and Soteria. The sounder is powered via the loop and actuated via the remote indicator output of the detector.



Features:

- Alternating tone 630/990 Hz
- Signal sequence 1 Hz
- Low power consumption

Specifications:

Operating voltage	from 17 VDC to 28 VDC
Current consumption typ.	100 µA (quiescent)
Current consumption max.	3 mA (active)
Protection class	IP23
Ambient temperature	from -20 °C to 60 °C
Sound level max.	79 dB(A)/1 m
Dimensions Ø × H	115 × 38 mm
Weight	140 g
Colour	white
Approval number CPR	2531-CPR-CSP11122

Cross-references	Page	Art.No.	Name Type
	275	359020	Lid for Detector Base Sounder/white 45681-292
	275	359021	Lid for Detector Base Sounder/red 45681-293
	275	359022	Mounting Plate for Sounder/WB/XP95/Disc 45681-311

355143 Sounder-Str./WM65/DiscI/red/MT/100/N 58000-005

The addressable multitone sounder-strobe is integrated in a red plastic housing with a red lens, and thanks to its dust and water protected design with protection class IP65, it is suitable for use under harsh environmental conditions. The unit is actuated and powered via the loop with Apollo protocol. The sounder is always activated together with the strobe.

The integrated dual-isolator disconnects the loop at short circuit on the loop line. A short circuit on the loop is indicated by a yellow status LED. If several sounder-strobes are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone and light pulse. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. For this purpose, the sound level and one of 15 different tone type combinations are selected in the parameter setup. As a result, the sounder can be activated with tone type 1 or 2 of the respective combination, depending on the parameter setup of the control panel and the system conditions.



Features:

- 15 tone type combinations (e.g., DIN 33404 tone, Slow Whoop tone, continuous tone 970 Hz)
- 7 sound levels
- Address is easily set with DIL switch
- Low power consumption due to the use of LEDs

Specifications:

Current consumption loop typ.	450 µA (quiescent)
Current consumption loop max.	8.5 mA (active)
Relative humidity (no condensation) max.	95 %
Protection class	IP65
Ambient temperature	from -20 °C to 60 °C
Sound level max.	86 dB(A)/1 m
Strobe frequency	1 Hz
Colour of lens/cap	red
Light colour	red
Dimensions Ø × D	98 × 105 mm
Weight	260 g
Colour	red
Approval number CPR	2831-CPR-F1494
Approval number LPCB	010ak/05

355144 Sounder-Str./WM65/DiscI/white/MT/100/N 58000-007

The structure of the addressable multitone sounder-strobe 58000-007 is identical to that of the Sounder-Strobe 58000-005, but the 58000-007 is integrated in a white plastic housing with a white lens.

Specifications:

Protection class	IP65
Sound level max.	86 dB(A)/1 m
Colour of lens/cap	clear
Light colour	red
Dimensions Ø × D	98 × 105 mm
Weight	260 g
Approval number CPR	2831-CPR-F1494



Approval number LPCB

010ak/06

355137 **Sounder-Str/WM/XP95I/re/re/100/N 55000-293**

The addressable multitone sounder with integrated strobe is accommodated in a red plastic housing with red cap and is designed for indoor surface mounting. The unit is actuated and powered via the loop with Apollo protocol. The sounder is always activated together with the strobe.

The integrated dual-isolator disconnects the loop at short circuit on the loop line. A short circuit on the loop is indicated by a yellow status LED.

If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone.

Depending on the parameter setup of the fire detection control panel and the system condition, the control panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch – one of three different combinations can be selected.



Features:

- 3 different tone type combinations selectable with DIL switch (e.g., continuous tone 900 Hz, DIN 33404 tone 1200-500 Hz, Slow Whoop tone 500-1200 Hz)
- 2 different sound levels selectable
- Address is easily set with DIL switch
- Low power consumption due to the use of LEDs

Specifications:

Current consumption loop typ.	1.2 mA (quiescent)
Current consumption loop max.	9 mA (active)
Relative humidity (no condensation) max.	95 %
Protection class	IP21
Ambient temperature	from -10 °C to 55 °C
Sound level max.	92 dB(A)/1 m
Strobe frequency	1 Hz
Colour of lens/cap	red
Light colour	red
Dimensions W × H × D	108 × 108 × 95 mm
Weight	209 g
Colour	red
Approval number CPR	2531-CPR-CSP11136
Approval number VdS	G 210023

355145 **Sounder-Str./WM/XP95I/white/100/N 55000-294**

The structure of the addressable multitone sounder-strobe 55000-294 is identical to that of the Sounder-Strobe 55000-293, but the 55000-294 is integrated in a white plastic housing with a white lens.

Specifications:

Protection class	IP21
Sound level max.	92 dB(A)/1 m
Colour of lens/cap	clear
Light colour	white
Dimensions W × H × D	108 × 108 × 95 mm
Weight	209 g
Approval number CPR	2531-CPR-CSP11136
Approval number VdS	G 210023



355141 Sounder-Str./WM65/XP95I/red/100/N 55000-005

The addressable multitone sounder-strobe is integrated in a red plastic housing with a red lens, and thanks to its dust and water protected design with protection class IP65, it is suitable for use under harsh environmental conditions. The unit is actuated and powered via the loop with Apollo protocol. The integrated dual-isolator disconnects the loop in the event of a short circuit on the loop line. A short circuit on the loop is indicated by a yellow status LED. If several sounder-strobes are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone and light pulse. Depending on the parameter setup of the fire detection control panel and the system condition, the control panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch – one of three different combinations can be selected.



Features:

- 3 different tone type combinations selectable with DIL switch (e.g., continuous tone 900 Hz, DIN 33404 tone 1200-500 Hz, Slow Whoop tone 500-1200 Hz)
- 2 different sound levels selectable
- Address is easily set with DIL switch
- Low power consumption due to the use of LEDs

Specifications:

Current consumption loop typ.	330 µA (quiescent)
Current consumption loop max.	8 mA (active)
Relative humidity (no condensation) max.	95 %
Protection class	IP65
Ambient temperature	from -10 °C to 55 °C
Sound level max.	90 dB(A)/1 m
Strobe frequency	1 Hz
Colour of lens/cap	red
Light colour	red
Dimensions Ø × D	98 × 105 mm
Weight	260 g
Colour	red
Approval number CPR	2831-CPR-F2104
Approval number LPCB	010ak/03

355142 Sounder-Str./WM65/XP95I/white/100/N 55000-006

The structure of the addressable multitone sounder-strobe 55000-006 is identical to that of the Sounder-Strobe 55000-005, but the 55000-006 is integrated in a white plastic housing with a white lens.



Specifications:

Protection class	IP65
Sound level max.	90 dB(A)/1 m
Colour of lens/cap	clear
Light colour	white
Dimensions Ø × D	98 × 105 mm
Weight	260 g
Approval number CPR	2831-CPR-F2104
Approval number LPCB	010ak/03

355138 Sounder-Str/WM66/XP95I/re/re/100/N 55000-298

The addressable multitone sounder with integrated strobe is accommodated in a red plastic housing with a red lens, and thanks to its dust and water protected design with protection class IP66, it is suitable for use under harsh environmental conditions. The unit is actuated and powered via the loop with Apollo protocol. The sounder is always activated together with the strobe. The integrated dual-isolator disconnects the loop at short circuit on the loop line. A short circuit on the loop is indicated by a yellow status LED. If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone. Depending on the parameter setup of the fire detection control panel and the system condition, the control panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch – one of three different combinations can be selected.



Features:

- 3 different tone type combinations selectable with DIL switch (e.g., continuous tone 900 Hz, DIN 33404 tone 1200-500 Hz, Slow Whoop tone 500-1200 Hz)
- 2 different sound levels selectable
- Address is easily set with DIL switch
- Low power consumption due to the use of LEDs

Specifications:

Current consumption loop typ.	1.2 mA (quiescent)
Current consumption loop max.	9 mA (active)
Relative humidity (no condensation) max.	95 %
Protection class	IP66
Ambient temperature	from -20 °C to 70 °C
Sound level max.	93 dB(A)/1 m
Strobe frequency	1 Hz
Colour of lens/cap	red
Light colour	red
Dimensions W × H × D	110 × 110 × 105 mm
Weight	294 g
Colour	red
Approval number CPR	2531-CPR-CSP11138
Approval number VdS	G 210023

355146 Sounder-Str./WM66/XP95I/white/100/N 55000-299

The structure of the addressable multitone sounder-strobe 55000-299 is identical to that of the Sounder-Strobe 55000-298, but the 55000-299 is integrated in a white plastic housing with a white lens.



Specifications:

Protection class	IP66
Sound level max.	93 dB(A)/1 m
Colour of lens/cap	clear
Light colour	red
Dimensions W × H × D	110 × 110 × 105 mm
Weight	294 g
Approval number CPR	2531-CPR-CSP11138
Approval number VdS	G 210023

355361 Sounder-Str/WB/CoreI/wh/cl/wh/MT/N SA5300-350

The sounder-strobe with integrated detector base is powered and actuated like a module via the loop with Apollo Core protocol. The sounder-strobe is inserted into the Detector Base SA5000-200 and can be mechanically protected against theft.

The address is set by means of a code card in the detector base. Therefore the signalling device can be changed without additional tools. An automatic detector that is inserted into the signalling device automatically receives the same address. In the BC600, the signalling device and the detector are handled as independent devices. If necessary, the signalling device can also be used without a detector.

If a short circuit occurs on the loop line, the integrated dual-isolator will disconnect the loop. A short circuit on the loop is indicated by a yellow status LED.

If several signalling devices are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone and light signal. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. For this purpose, the sound level and one of 15 different tone type combinations are selected in the parameter setup. As a result, the sounder can be activated with tone type 1 or 2 of the respective combination, depending on the parameter setup of the control panel and the system conditions.



Features:

- 15 tone type combinations (e.g., DIN 33404 tone, Slow Whoop tone, continuous tone 970 Hz)
- 7 sound levels
- Joint or separate activation of sounder and strobe
- Address of sounder-strobe is easily set with code card in the detector base

Specifications:

Current consumption loop typ.	1 mA (quiescent)
Current consumption loop max.	9.6 mA (active)
Relative humidity (no condensation) max.	95 %
Protection class	IP44
Ambient temperature	from -20 °C to 70 °C
Sound level max.	90 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	white
Dimensions Ø × D	110 × 46 mm
Weight	195 g
Colour	white
Approval number CPR	2531-CPR-CSP11261
Approval number VdS	G 221041

Cross-references	Page	Art.No.	Name Type
	275	359020	Lid for Detector Base Sounder/white 45681-292
	275	359021	Lid for Detector Base Sounder/red 45681-293
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

355362 Sounder-Str/WB/CoreI/wh/re/re/MT/N SA5300-351

The structure of the addressable sounder-strobe SA5300-351 is identical to that of the Sounder-Strobe SA5300-320, but the SA5300-351 has a red lens and therefore emits a red light.

Specifications:

Protection class	IP44
Sound level max.	90 dB(A)/1 m
Colour of lens/cap	red
Light colour	red



Dimensions Ø × D	110 × 46 mm
Weight	195 g
Approval number CPR	2531-CPR-CSP11262
Approval number VdS	G 221042

355151 **Sounder-Str/WB/DiscI/wh/cl/wh/MT/O 45681-700**

The addressable base sounder with integrated white strobe is installed in a round white plastic housing and is designed for indoor ceiling mounting. The integrated detector base can accommodate fire detectors Series XP95, Discovery and Soteria. The sounder is actuated and powered via the loop with Apollo protocol. If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone. With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. For this purpose, the sound level and one of 15 different tone type combinations are selected in the parameter setup. As a result, the sounder can be activated with tone type 1 or 2 of the respective combination, depending on the parameter setup of the control panel and the system conditions. With the appropriate parameter setup, the sounder and the strobe can also be activated separately. The unit contains a dual-isolator.



Features:

- 15 tone type combinations (e.g., DIN 33404 tone, Slow Whoop tone, continuous tone 970 Hz)
- 7 sound levels
- Joint or separate activation of sounder and strobe
- Address of sounder-strobe is set via DIL switch
- Detector address is easily set with code card in the detector base

Specifications:

Current consumption loop typ.	500 µA (quiescent)
Current consumption loop max.	14 mA (active)
Relative humidity (no condensation) max.	95 %
Protection class	IP21
Ambient temperature	from -20 °C to 60 °C
Sound level max.	79 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	O – ceiling mounting
Mounting height max.	2.4 m
Dimensions Ø × H	115 × 38 mm
Weight	168 g
Colour	white
Approval number CPR	2531-CPR-CSP11165
Approval number VdS	G 218091

Cross-references	Page	Art.No.	Name Type
	275	359020	Lid for Detector Base Sounder/white 45681-292
	275	359021	Lid for Detector Base Sounder/red 45681-293
	275	359022	Mounting Plate for Sounder/WB/XP95/Disc 45681-311

355157 Sounder-Str/WB/DiscI/wh/cl/wh/MT/N 45681-393

The addressable base sounder with integrated white strobe is installed in a round white plastic housing and is designed for indoor ceiling mounting. The integrated detector base can accommodate fire detectors Series XP95, Discovery and Soteria. The sounder is actuated and powered via the loop with Apollo protocol. If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone. With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. For this purpose, the sound level and one of 15 different tone type combinations are selected in the parameter setup. As a result, the sounder can be activated with tone type 1 or 2 of the respective combination, depending on the parameter setup of the control panel and the system conditions. With the appropriate parameter setup, the sounder and the strobe can also be activated separately. The unit contains a dual-isolator.



Features:

- 15 tone type combinations (e.g., DIN 33404 tone, Slow Whoop tone, continuous tone 970 Hz)
- 7 sound levels
- Joint or separate activation of sounder and strobe
- Address of sounder-strobe is set via DIL switch
- Detector address is easily set with code card in the detector base

Specifications:

Current consumption loop typ.	450 µA (quiescent)
Current consumption loop max.	8.5 mA (active)
Relative humidity (no condensation) max.	95 %
Protection class	IP21
Ambient temperature	from -20 °C to 60 °C
Sound level max.	81 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	white
Dimensions Ø × H	115 × 38 mm
Weight	168 g
Colour	white
Approval number CPR	2531-CPR-CSP10876

Cross-references	Page	Art.No.	Name Type
	275	359020	Lid for Detector Base Sounder/white 45681-292
	275	359021	Lid for Detector Base Sounder/red 45681-293
	275	359022	Mounting Plate for Sounder/WB/XP95/Disc 45681-311

355152 Sounder-Str/WB/XP95I/wh/cl/wh/Alt/O 45681-705

The addressable base sounder with integrated red strobe is accommodated in a round white plastic housing. The unit is actuated and powered via the loop with Apollo protocol. The sounder is always activated together with the strobe. The base sounder is provided with high-performance LEDs and has been tested according to EN 54-23 Class O. The integrated detector base can accommodate fire detectors Series XP95, Discovery and Soteria. The unit is designed for indoor surface mounting.



If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone. Depending on the parameter setup of the fire detection control panel and the system condition, the control panel can activate the sounder with tone A or B. The address of the sounder and strobe as well as the sound level are set via a DIL switch. The unit contains a dual-isolator.

Features:

- Tone A: alternating tone (567 Hz for 0.5 s, 850 Hz for 0.5 s)

- Tone B: interrupted tone 850 Hz (1 s ON, 1 s OFF)
- 2 different sound levels selectable via DIL switch
- Detector address is easily set with code card in the detector base
- Low power consumption due to the use of LEDs

Specifications:

Current consumption loop typ.	350 µA (quiescent)
Current consumption loop max.	14 mA (active)
Relative humidity (no condensation) max.	95 %
Protection class	IP21
Ambient temperature	from -20 °C to 60 °C
Sound level max.	87 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	O – ceiling mounting
Mounting height max.	2.4 m
Dimensions Ø × H	115 × 38 mm
Weight	168 g
Colour	white
Approval number CPR	2531-CPR-CSP11167
Approval number LPCB	010aw/03

355154 **Sounder-Str/WB/XP95I/wh/cl/wh/DIN/O 45681-707**

The addressable base sounder with integrated strobe is accommodated in a round white plastic housing. The unit is actuated and powered via the loop with Apollo protocol. The sounder is always activated together with the strobe. The integrated detector base can accommodate fire detectors Series XP95, Discovery and Soteria. The unit is designed for indoor surface mounting. If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.



Depending on the parameter setup of the fire detection control panel and the system condition, the control panel can activate the sounder with tone A or B. The address of the sounder and strobe as well as the sound level are set via a DIL switch. The unit has a dual-isolator.

The base sounder contains white very high-performance LEDs and has been tested according to EN 54-23 Class O.

Features:

- Tone A: DIN tone (DIN 33404; 1200-500 Hz over 1 s)
- Tone B: continuous tone 850 Hz
- 2 different sound levels selectable via DIL switch
- Detector address is easily set with code card in the detector base
- Low power consumption due to the use of LEDs

Specifications:

Current consumption loop typ.	350 µA (quiescent)
Current consumption loop max.	14 mA (active)
Relative humidity (no condensation) max.	95 %
Protection class	IP21
Ambient temperature	from -20 °C to 60 °C
Sound level max.	87 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	O – ceiling mounting
Mounting height max.	2.4 m
Dimensions Ø × H	115 × 38 mm

Weight	168 g
Colour	white
Approval number CPR	2531-CPR-CSP11168
Approval number LPCB	010aw/05

Cross-references	Page	Art.No.	Name Type
	275	359022	Mounting Plate for Sounder/WB/XP95/Disc 45681-311
	275	359021	Lid for Detector Base Sounder/red 45681-293
	275	359020	Lid for Detector Base Sounder/white 45681-292

355135 Sounder-Str/WB/XP95I/wh/cl/re/Slw/N 45681-332

The addressable base sounder with integrated red strobe 45681-332 is accommodated in a round white plastic housing. The unit is actuated and powered via the loop with Apollo protocol. The sounder is always activated together with the strobe. The integrated detector base can accommodate fire detectors Series XP95, Discovery and Soteria. The unit is designed for indoor surface mounting.



If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

Depending on the parameter setup of the fire detection control panel and the system condition, the control panel can activate the sounder with tone A or B. The address of the sounder and strobe as well as the sound level are set via a DIL switch. The unit contains a dual-isolator.

Features:

- Tone A: Slow Whoop tone NEN 2575 (500 - 1200 Hz over 3.5 s, 0.5 s pause)
- Tone B: continuous tone 825 Hz
- 2 different sound levels selectable via DIL switch
- Detector address is easily set with code card in the detector base
- Low power consumption due to the use of LEDs

Specifications:

Current consumption loop typ.	300 µA (quiescent)
Current consumption loop max.	8 mA (active)
Relative humidity (no condensation) max.	95 %
Protection class	IP21
Ambient temperature	from -20 °C to 60 °C
Sound level max.	82 dB(A)/1 m
Strobe frequency	1 Hz
Colour of lens/cap	clear
Light colour	red
Dimensions Ø × H	115 × 38 mm
Weight	160 g
Colour	white
Approval number CPR	2531-CPR-CSP11171

356025 Strobe/XP95/re/cl/ws/W 55000-741

The addressable strobe with white light is integrated in a red plastic housing with a clear lens. It is actuated and powered via the loop with Apollo protocol. The unit is designed to be inserted into a standard detector base SA5000-200 and is suitable for indoor and outdoor mounting.



The strobe has been tested according to EN 54-23 Class W (wall). It is used if optical alarming according to EN 54-23 is required.

If a Fire Detection Control Panel Series BC600 actuates several strobes in parallel, they are synchronised by the control panel to generate a uniform light pulse.

Features:

- Low power consumption due to the use of LEDs
- Suitable for surface mounting

Specifications:

Current consumption loop typ.	150 µA (quiescent)
Current consumption loop max.	16 mA (active)
Protection class	IP42
Ambient temperature	from -10 °C to 60 °C
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	W-2.4-6 – wall mounting
Mounting height max.	2.4 m
Illuminated area	6 × 6 m
Dimensions Ø × H	100 × 52 mm
Weight	85 g
Colour	red
Approval number CPR	2831-CPR-F0607
Approval number VdS	G 217032

Cross-references	Page	Art.No.	Name Type
	271	246036	Isolator Detector Base/XP95/Disc 45681-284
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

356026 Strobe/XP95/re/cl/ws/C 55000-742

The addressable strobe with white light is integrated in a red plastic housing with a clear lens. It is actuated and powered via the loop with Apollo protocol. The unit is designed to be inserted into a standard detector base SA5000-200 and is intended for indoor and outdoor mounting.

The strobe has been tested according to EN 54-23 Class C (ceiling). It is used if optical alarming according to EN 54-23 is required. Thanks to the optimised design of the lens, the strobe evenly emits light in all directions, and therefore it can be mounted in any orientation.

If a Fire Detection Control Panel Series BC600 actuates several strobes in parallel, they are synchronised by the control panel to generate a uniform light pulse.



Features:

- Low power consumption due to the use of LEDs
- Suitable for surface mounting

Specifications:

Current consumption loop typ.	150 µA (quiescent)
Current consumption loop max.	12 mA (active)
Protection class	IP42
Ambient temperature	from -10 °C to 60 °C
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	C-3-8.5 – ceiling mounting
Mounting height max.	3 m
Illuminated area	Ø 8.5 m, equals 6 × 6 m
Dimensions Ø × H	100 × 52 mm
Weight	85 g
Colour	red
Approval number CPR	2831-CPR-F0608
Approval number VdS	G 217033

Cross-references	Page	Art.No.	Name Type
	271	246036	Isolator Detector Base/XP95/Disc 45681-284
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

356028 Strobe/XP95/wh/cl/ws/W 55000-744

The structure of the addressable strobe 55000-744 is identical to that of the Strobe 55000-741, but the 55000-744 is integrated in a white housing.

Specifications:

Protection class	IP42
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	W-2.4-6 – wall mounting
Mounting height max.	2.4 m
Illuminated area	6 × 6 m
Dimensions Ø × H	100 × 52 mm
Weight	85 g
Approval number CPR	2831-CPR-F0610
Approval number VdS	G 217035



356029 Strobe/XP95/wh/cl/ws/C 55000-745

The structure of the addressable strobe 55000-745 is identical to that of the Strobe 55000-742, but the 55000-745 is integrated in a white housing.

Specifications:

Protection class	IP42
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	C-3-8.5 – ceiling mounting
Mounting height max.	3 m
Illuminated area	Ø 8.5 m, equals 6 × 6 m
Dimensions Ø × H	100 × 52 mm
Weight	85 g
Approval number CPR	2831-CPR-F0611
Approval number VdS	G 217036



356020 Strobe/XP95/white/red/N 55000-877

The addressable loop-powered strobe with a red cap is integrated in a round white plastic housing. It is powered and actuated like a module via the loop with Apollo protocol. The strobe is designed to be inserted into a detector base and is intended for indoor mounting.

Features:

- Low power consumption due to the use of LEDs
- Suitable for surface mounting

Specifications:

Current consumption loop typ.	150 µA (quiescent)
Current consumption loop max.	3 mA (active)
Protection class	IP42
Ambient temperature	from -10 °C to 60 °C
Colour of lens/cap	red
Light colour	red
Dimensions Ø × H	100 × 52 mm
Weight	85 g
Colour	white



Cross-references	Page	Art.No.	Name Type
	271	246036	Isolator Detector Base/XP95/Disc 45681-284
	275	359023	Housing IP67 for Strobe/XP95 29600-318
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

356022 Strobe/XP95/white/clear/red/N 55000-878

The addressable loop-powered strobe is identical to the Strobe 55000-877, but it has a colourless cap and red light emitting diodes.

Specifications:

Protection class	IP42
Colour of lens/cap	clear
Light colour	red
Dimensions Ø × H	100 × 52 mm
Weight	85 g



356023 Strobe/XP95/white/amber/N 55000-879

The addressable loop-powered strobe is identical to the Strobe 55000-877, but it has an orange cap.

Specifications:

Protection class	IP42
Colour of lens/cap	orange
Light colour	orange
Dimensions Ø × H	100 × 52 mm
Weight	85 g



356184 Strobe/WB/CoreI/wh/cl/wh/N SA5300-320

The strobe with integrated detector base is powered and actuated like a module via the loop with Apollo Core protocol. The strobe is inserted into the Detector Base SA5000-200 and can be mechanically protected against theft. The address is set by means of a code card in the detector base. Therefore the signalling device can be changed without additional tools. An automatic detector that is inserted into the signalling device automatically receives the same address. In the BC600, the signalling device and the detector are handled as independent devices. If necessary, the signalling device can also be used without a detector. Furthermore, the strobe is provided with an integrated dual-isolator module. If several strobes are activated at the same time, they are synchronised by the control panel to generate a uniform light signal.



Features:

- Address is easily set with code card in the detector base
- Protection class IP44 with standard detector base

Specifications:

Current consumption loop typ.	1 mA (quiescent)
Current consumption loop max.	5.05 mA (active)
Relative humidity (no condensation) max.	95 %
Protection class	IP44
Ambient temperature	from -40 °C to 70 °C
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	white
Dimensions Ø × D	110 × 35 mm
Weight	145 g
Colour	white
Approval number CPR	2531-CPR-CSP11259
Approval number VdS	G 221039

Cross-references	Page	Art.No.	Name Type
	275	359020	Lid for Detector Base Sounder/white 45681-292
	275	359021	Lid for Detector Base Sounder/red 45681-293
	269	246060	Detector Base/XP95/Disc/Core SA5000-200

356185 Strobe/WB/CoreI/wh/re/re/N SA5300-321

The structure of the addressable strobe SA5300-321 is identical to that of the Strobe SA5300-320, but the SA5300-321 has a red lens and therefore emits a red light.

Specifications:

Protection class	IP44
Colour of lens/cap	red
Light colour	red
Dimensions Ø × D	110 × 35 mm
Weight	145 g
Approval number CPR	2531-CPR-CSP11260
Approval number VdS	G 221040



355155 Strobe/WB/XP95I/wh/cl/wh/O 45681-709

The addressable base strobe is integrated in a round white plastic housing. The unit is actuated and powered via the loop with Apollo protocol. The integrated detector base can accommodate fire detectors Series XP95, Discovery and Soteria. The unit is designed for indoor ceiling mounting.

The strobe contains white very high-performance LEDs and has been tested according to EN 54-23 Class O. In case of activation, the function of the strobe is monitored by means of an integrated test circuit. The unit contains a dual-isolator.

Features:

- Address of strobe is set via DIL switch
- Detector address is easily set with code card in the detector base
- Low power consumption due to the use of LEDs

Specifications:

Current consumption loop typ.	350 µA (quiescent)
Current consumption loop max.	9 mA (active)
Relative humidity (no condensation) max.	95 %
Protection class	IP21
Ambient temperature	from -20 °C to 60 °C
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	O – ceiling mounting
Mounting height max.	2.4 m
Dimensions Ø × H	115 × 38 mm
Weight	156 g
Colour	white
Approval number CPR	2531-CPR-CSP11169
Approval number VdS	G 218093



Cross-references	Page	Art.No.	Name Type
	275	359020	Lid for Detector Base Sounder/white 45681-292
	275	359021	Lid for Detector Base Sounder/red 45681-293
	275	359022	Mounting Plate for Sounder/WB/XP95/Disc 45681-311

7.4.5 Accessories

246060 Detector Base/XP95/Disc/Core SA5000-200

The detector base is designed to accommodate automatic fire detectors Series XP95, Discovery and Soteria and is suitable for indoor surface mounting. The detector address is set by means of a code card, which is delivered with the base.



Features:

- Connection to loop with Apollo protocol
- Easy detector addressing in the range 1 to 254 through address card 45682-800 in detector base
- Loop is automatically connected through when the element is removed
- Screw terminals for secure connection of multiple wires
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications:

Relative humidity (no condensation) max.	95 %
Ambient temperature	from -40 °C to 70 °C (no icing)
Dimensions Ø × H	100 × 20 mm
Weight	63 g
Colour	white

Cross-references	Page	Art.No.	Name Type
	272	246029	Conduit Box/Apo 45681-204
	272	246030	Backplate/Apo 45681-233
	273	249340	Address Card/XP95/Discovery/Core/Pack 25pcs. 45682-800

246061 Detector Base/red/XP95/Disc/Core SA5000-202

As regards the function, the red Detector Base SA5000-202 is identical to the Detector Base SA5000-200. It is needed for signalling devices with a red housing.



Features:

- Connection to loop with Apollo protocol
- Easy detector addressing in the range 1 to 254 through address card 45682-800 in detector base
- Loop is automatically connected through when the element is removed
- Screw terminals for secure connection of multiple wires
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications:

Dimensions Ø × H	100 × 20 mm
Weight	63 g

246062 Detector Base/black/XP95/Disc/Core SA5000-204

New

As regards the function, the black Detector Base SA5000-204 is identical to the Detector Base SA5000-200. It is needed for detectors with a black housing.

Features:

- Connection to loop with Apollo protocol
- Easy detector addressing in the range 1 to 254 through address card 45682-800 in detector base
- Loop is automatically connected through when the element is removed
- Screw terminals for secure connection of multiple wires
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications:

Dimensions Ø × H	100 × 20 mm
Weight	63 g



246170 Detector Base/FLx100 FL5000-200

The plastic hollow wall box with integrated detector base is needed for mounting the Optical Smoke Detectors FL5100-600 and FL6100-600 flush with the ceiling and for their electrical connection.

Specifications:

Dimensions Ø × H	132 × 71 mm
Ceiling cut-out Ø	114 mm
Weight	125 g



246025 Detector Base/XP95/Disc 45681-210

The detector base is designed to accommodate automatic fire detectors Series XP95 and Discovery and is suitable for indoor surface mounting. The detector address is set by means of a code card, which is delivered with the base.

Features:

- Connection to loop with Apollo protocol
- Detector address is easily set with code card in the detector base
- Screw terminals for secure connection of multiple wires
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications:

Relative humidity (no condensation)	from 10 % to 95 %
Ambient temperature	from -20 °C to 60 °C (no icing)
Dimensions Ø × H	100 × 15 mm
Weight	50 g
Colour	white



Cross-references	Page	Art.No.	Name Type
	273	249340	Address Card/XP95/Discovery/Core/Pack 25pcs. 45682-800

246036 Isolator Detector Base/XP95/Disc 45681-284

The detector base with integrated dual-isolator is designed to accommodate automatic fire detectors Series XP95 and Discovery and is suitable for indoor surface mounting. The detector address is set by means of a code card, which is delivered with the base.



Features:

- Connection to loop with Apollo protocol
- Detector address is easily set with code card in the detector base
- Full operation of all elements not affected by the short circuit
- Screw terminals for secure connection of multiple wires
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications:

Current consumption max.	43 μ A
Relative humidity (no condensation)	from 0 % to 95 %
Ambient temperature	from -20 °C to 60 °C (no icing)
Dimensions $\varnothing \times H$	100 \times 24 mm
Weight	100 g
Colour	white
Approval number CPR	2531-CPR-CSP11176
Approval number VdS	G 210033
Approval number LPCB	010aa/01

Cross-references	Page	Art.No.	Name Type
	272	246029	Conduit Box/Apo 45681-204
	272	246030	Backplate/Apo 45681-233
	273	249340	Address Card/XP95/Discovery/Core/Pack 25pcs. 45682-800

246044 Detector Base/XP95/Disc 45681-219

The detector base is designed to accommodate optical smoke detectors and ionisation smoke detectors Series XP95 and Discovery. Thanks to the integrated heating elements, the base is suitable for surface mounting in very moist areas (loading ramps, cable ducts, etc.). The heating elements are powered by an external power supply. The detector address is set by means of a code card, which is delivered with the base.



Features:

- Connection to loop with Apollo protocol
- Detector address is easily set with code card in the detector base
- Screw terminals for secure connection of multiple wires
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications:

Operating voltage	from 20 V to 30 V
Current consumption typ.	125 mA (at 24 V)
Ambient temperature	from -30 °C to 40 °C
Dimensions $\varnothing \times H$	100 \times 24 mm
Weight	100 g
Colour	white

Cross-references	Page	Art.No.	Name Type
	273	249340	Address Card/XP95/Discovery/Core/Pack 25pcs. 45682-800
	272	246030	Backplate/Apo 45681-233
	272	246029	Conduit Box/Apo 45681-204

246033 Detector Heater/XP95/Disc MH95-1

The detector base with included heating is designed for use with a Series XP95 or Discovery optical smoke detector in extremely moist areas (e.g., loading ramps, cable ducts). A detector base with area heater and an installation box with connection terminals and a remote indicator are mounted together on a mounting plate.



Features:

- Connection terminals for all incoming and outgoing cables
- Detector base pre-wired on the terminals
- Additional remote indicator on the installation box

Specifications:

Operating voltage typ.	40 VAC/DC
Power consumption	12 W
Dimensions L × W × H	310 × 175 × 120 mm
Weight	1.3 kg

Cross-references	Page	Art.No.	Name Type
	312	249014	PSU For Detector Heater MH-TR1

246029 Conduit Box/Apo 45681-204

The supplement base is needed in addition to the detector bases Series 65, Orbis, XP95, Discovery and Soteria when they are surface mounted using cable conduits or thick cables. The supplement base is prepared for the use of cable glands M16 or M20.



Specifications:

Dimensions Ø × H	100 × 30 mm
Weight	60 g
Colour	white

Cross-references	Page	Art.No.	Name Type
	270	246025	Detector Base/XP95/Disc 45681-210
	357	246027	Detector Base/XP95/Ex 45681-215

246030 Backplate/Apo 45681-233

The supplement base is needed in addition to the detector bases Series 65, Orbis, XP95, Discovery and Soteria when they are surface mounted, as well as to protect the mounting area against dust or dirt.



Specifications:

Dimensions Ø × H	112 × 15 mm
Weight	40 g
Colour	white

Cross-references	Page	Art.No.	Name Type
	270	246025	Detector Base/XP95/Disc 45681-210
	357	246027	Detector Base/XP95/Ex 45681-215

246046 Recessed Mounting Kit/APO-Detector 45681-309

The recessed mounting kit is used for flush mounting of an automatic fire detector Series XP95, Discovery or Soteria on an inserted ceiling made of mineral fibre. The recessed mounting kit consists of the installation box with knock-out openings for the cabling, as well as the cover plate. The detector base is mounted on the installation box, flush with the ceiling.



Specifications:

Dimensions Ø × H	160 × 44 mm
Dimensions Cover plate diameter	151 mm
Ceiling cut-out Ø	127 mm
Weight	152 g
Colour	white

246047 Recessed Mounting Kit/APO-Sounder 45681-310

The recessed mounting kit is used for flush mounting of a detector base sounder Series XP95 on an inserted ceiling made of mineral fibre. The recessed mounting kit consists of the installation box with knock-out openings for the cabling, as well as the cover plate. The detector base sounder is mounted on the installation box, flush with the ceiling.



Specifications:

Dimensions Ø × H	160 × 44 mm
Dimensions Cover plate diameter	151 mm
Ceiling cut-out Ø	127 mm
Weight	144 g
Colour	white

246048 Deckhead mounting box/XP95 45681-217

New

The deckhead mounting box is used for mounting automatic detectors Series XP95, Discovery and Soteria in moist rooms. The supplement base can accommodate the Detector Bases 45681-210, 45681-215, 45681-219, 45681-284 and SA5000-200.



Specifications:

Colour	white
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Cross-references	Page	Art.No.	Name Type
	269	246060	Detector Base/XP95/Disc/Core SA5000-200
	270	246025	Detector Base/XP95/Disc 45681-210
	271	246036	Isolator Detector Base/XP95/Disc 45681-284

249340 Address Card/XP95/Discovery/Core/Pack 25pcs. 45682-800

The code card is used for setting the physical address of an automatic fire detector Series XP95, Discovery and Core or of a loop strobe Series XP95 in the detector base. An address can be set as a binary number between 1 and 254 by removing some of the pips. The cards are delivered in the unprogrammed state, one packing unit contains 25 pieces.



Note: An address card is included in each detector base.

Features:

- No electronics contained
- Easy programming

- Easy to replace
- Address range 1 to 254

Specifications:

Colour white

246050 Duct Detector Housing/XP95 53546-022

The duct detector is designed to monitor ventilation ducts with a depth of 300 to 3000 mm. The detector housing contains a base for accommodating an Optical Smoke Detector 55000-620 (Series XP95) or 58000-600 (Series Discovery). The detector is connected to the fire detection control panel via the loop and communicates by means of the Apollo protocol.

The status LED of the smoke detector can be seen through the transparent cover of the housing. The test aperture in the case cover allows easy testing of the detector by means of test gas.

An air inlet pipe for ducts with a depth of up to 540 mm as well as the air escape pipe are included in the delivery. For deeper ducts, longer air inlet pipes are available as accessories.



Specifications:

Ambient temperature	from 0 °C to 50 °C
Air velocity	from 0.5 m/s to 20 m/s
Dimensions W × H × D	370 × 118 × 65 mm
Dimensions with inlet/outlet nozzles W × H × D	370 × 118 × 96 mm
Dimensions air inlet pipe Ø × L	18 × 360 mm
Weight (including pipes)	940 g
Colour	grey

Cross-references	Page	Art.No.	Name Type
	238	241023	Optical Smoke Detector/XP95 55000-620
	235	241027	Optical Smoke Detector/Disc 58000-600
	274	246051	Duct Detector Pipe/0.75m 53541-170
	274	246052	Duct Detector Pipe/1.5m 53541-171
	275	246053	Duct Detector Pipe/3.0m 53541-172

246051 Duct Detector Pipe/0.75m 53541-170

The air inlet pipe is used together with the Duct Detector 53546-022 to monitor ventilation ducts with a depth of between 0.15 and 0.75 m.

Specifications:

Dimensions Ø × L	18 × 762 mm
Weight	330 g
Material	steel, galvanised



246052 Duct Detector Pipe/1.5m 53541-171

The air inlet pipe is used together with the Duct Detector 53546-022 to monitor ventilation ducts with a depth of between 0.75 and 1.5 m.

Specifications:

Dimensions Ø × L	18 × 1524 mm
Weight	660 g
Material	steel, galvanised



246053 Duct Detector Pipe/3.0m 53541-172

The air inlet pipe is used together with the Duct Detector 53546-022 to monitor ventilation ducts with a depth of between 1.5 and 3 m.

Specifications:

Dimensions Ø × L	18 × 3048 mm
Weight	1.3 kg
Material	steel, galvanised



359020 Lid for Detector Base Sounder/white 45681-292

The white cover lid is designed for the protection of a loop base signalling device Series XP95 or Discovery, if no detector is inserted.

Specifications:

Dimensions Ø × H	100 × 9 mm
Weight	20 g
Colour	white



359021 Lid for Detector Base Sounder/red 45681-293

The red cover lid is designed for the protection of a loop base signalling device Series XP95 or Discovery, if no detector is inserted.

Specifications:

Dimensions Ø × H	100 × 9 mm
Weight	20 g
Colour	red



359022 Mounting Plate for Sounder/WB/XP95/Disc 45681-311

The white mounting plate is needed for surface mounted cabling of a loop base signalling device Series FI750, FI700, XP95 or Discovery.

Specifications:

Dimensions Ø × H	116 × 11 mm
Weight	28 g
Colour	white



359023 Housing IP67 for Strobe/XP95 29600-318

The protection housing 29600-318 consists of a grey bottom part made of plastic and a transparent cover. The housing is designed to protect a loop strobe Series XP95 from dust and humidity.

Specifications:

Protection class	IP67
Ambient temperature	from -40 °C to 80 °C
Dimensions W × H × D	125 × 125 × 100 mm
Weight	292 g



8

Conventional Detectors



8.1 Series FC650

241072 Optical Smoke Detector/650 FC650/O

The optical smoke detector operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for use in conventional technology.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – an effective measure for preventing false alarms.

By means of the Programming Unit FI700/PU, the function of the status LED in normal condition can be set and detector-specific parameters such as the contamination of the optical chamber or the production date can be read out.

The LED indicator with 360° visibility indicates the activated condition of the detector. The detector is integrated in a white housing and is designed for indoor mounting. Several base versions are available for mounting the detector.



Features:

- Insect screen and double dust trap
- Easy function testing using a magnet or test gas
- Terminal for external remote indicator
- Mechanical theft protection in the base

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	90 µA
Relative humidity (no condensation) max.	95 %
Protection class	IP40
Protection class	IP42 (with silicone gasket)
Ambient temperature	from -30 °C to 70 °C
Dimensions Ø × H	106 × 46 mm
Weight	80 g
Colour	white
Approval number CPR	2831-CPR-F4292
Approval number LPCB	928e/02

Cross-references	Page	Art.No.	Name Type
	280	246070	Detector Base/600 FC600/BR
	181	249272	Programming Unit FI700 FI700/PU

242072 Thermal RoR Detector/650/A1R FC650/TDIFF/57

The Thermal RoR Detector FC650/TDIFF/57 reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 57 °C according to EN 54-5, Class A1R. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5 m.

By means of the Programming Unit FI700/PU, the preset temperature class according to EN 54-5 can be changed, the function of the status LED in the normal condition can be set and parameters such as the production date can be read out. The LED indicator with 360° visibility indicates the activated condition of the detector. The detector is integrated in a white housing. Several base versions are available for mounting the detector.



Features:

- Easy function testing using a magnet
- Terminal for external remote indicator
- Mechanical theft protection in the base

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	90 µA
Relative humidity (no condensation) max.	95 %
Protection class	IP40
Protection class	IP42 (with silicone gasket)
Ambient temperature	from -30 °C to 70 °C
Application temperature max.	50 °C
Alarm temperature	57 °C
Dimensions Ø × H	106 × 46 mm
Weight	80 g
Colour	white
Approval number CPR	2831-CPR-F4291
Approval number LPCB	928d/02

Cross-references	Page	Art.No.	Name Type
	280	246070	Detector Base/600 FC600/BR
	181	249272	Programming Unit FI700 FI700/PU

242073 Thermal Max Detector/650/BS FC650/TMAX/78

The Thermal Max Detector FC650/TMAX/78 reacts to a maximum temperature of 78 °C according to EN 54-5, Class BS. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 6 m.

By means of the Programming Unit FI700/PU, the preset temperature class according to EN 54-5 can be changed, the function of the status LED in the normal condition can be set and parameters such as the production date can be read out. The LED indicator with 360° visibility indicates the activated condition of the detector. The detector is integrated in a white housing. Several base versions are available for mounting the detector.



Features:

- Easy function testing using a magnet
- Terminal for external remote indicator
- Mechanical theft protection in the base

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	90 µA
Relative humidity (no condensation) max.	95 %
Protection class	IP40
Protection class	IP42 (with silicone gasket)
Ambient temperature	from -30 °C to 70 °C
Application temperature max.	65 °C
Alarm temperature	78 °C
Dimensions Ø × H	106 × 46 mm
Weight	80 g
Colour	white
Approval number CPR	2831-CPR-F4291
Approval number LPCB	928d/02

Cross-references	Page	Art.No.	Name Type
	280	246070	Detector Base/600 FC600/BR
	181	249272	Programming Unit FI700 FI700/PU

246070 Detector Base/600 FC600/BR

The detector base is designed to accommodate automatic fire detectors Series FC600 and FC650 in conventional technology. The base is suitable for indoor surface mounting.

Features:

- Screw terminals for secure connection of multiple wires
- Terminal for external remote indicator
- Mechanical theft protection of detector can be activated

Specifications:

Relative humidity (no condensation)	from 5 % to 95 %
Ambient temperature	from -30 °C to 70 °C
Dimensions Ø × H	110 × 16 mm
Weight	32 g
Colour	white

Cross-references	Page	Art.No.	Name Type
	177	246087	Surface Mounting Kit FI750/FC650/SM
	177	246088	Wet Base Shroud FI750/FC650/WB



246072 Detector Base/600/Relay FC600/BREL

The detector base is designed to accommodate automatic fire detectors Series FC600 and FC650 in conventional technology. The integrated relay output is active as long as the detector remains in the alarm condition. The base is suitable for indoor surface mounting.

Features:

- Relay output with dry change-over contact
- Screw terminals for secure connection of multiple wires
- Terminal for external remote indicator
- Mechanical theft protection of detector can be activated

Specifications:

Operating voltage	from 10 VDC to 28 VDC
Current consumption typ.	3 µA (quiescent)
Current consumption max.	17 mA (active)
Contact rating	1 A / 30 VDC
Relative humidity (no condensation)	from 5 % to 95 %
Ambient temperature	from -30 °C to 70 °C
Dimensions Ø × H	110 × 27 mm
Weight	58 g
Colour	white



8.2 Series 300 / ECO1000

241040 Optical Smoke Detector/300 2351E

The optical smoke detector operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – an effective measure for preventing false alarms. If the contamination of the sensing system is too heavy for further compensation or if the sensing system is defective, the status LED on the detector will blink yellow.

The degree of contamination can be scanned by the maintenance engineer via the Programming and Test Unit S300PTU. Furthermore, the S300PTU is used to adjust the response sensitivity of the detector to the local requirements.



Features:

- Response sensitivity can be set to one of three levels (low-medium-high)
- Detector status, degree of contamination, detector address, response sensitivity as well as date of latest maintenance can be scanned and edited via the Programming and Test Unit S300PTU
- Insect screen
- Individual detector addressing with Programming and Test Unit S300PTU
- Functionality can be checked through test activation by means of Programming and Test Unit S300PTU or Remote Test Unit ECO1000RTU
- Terminal for external remote indicator
- Mechanical theft protection in the base

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	75 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP40
Protection class	IP43 (with Wet Base Shroud WB-1AP)
Ambient temperature	from -30 °C to 70 °C
Dimensions Ø × H	102 × 32 mm
Weight	75 g
Colour	cream
Approval number CPR	2831-CPR-F1955
Approval number VdS	G 202012
Approval number LPCB	199m/03

Cross-references	Page	Art.No.	Name Type
	287	246008	Detector Base/400/300/100 B401RM1000
	287	246019	Detector Base 400/300/100 B401DGR1000
	290	246117	Programming and Test Unit/300 S300PTU
	290	246150	Remote Test Unit/300/1000 ECO1000RTU
	223	246160	Wet Base Shroud/200AP WB-1AP

241041 Optical-Thermal Detector/300 2351TEM

The optical-thermal detector operates both with an optical sensing chamber based on the principle of scattered light and with a rate-of-rise temperature sensor according to EN 54-5 Class A1R. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5 m. The alarm evaluation is based on the analysis of the measured values from both detection units; if only one of the characteristics of fire – smoke or heat –



occurs, false alarms can be mostly avoided.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – another effective measure for preventing false alarms. If the contamination of the sensing system is too heavy for further compensation or if the sensing system is defective, the status LED on the detector will blink yellow.

The degree of contamination can be scanned by the maintenance engineer via the Programming and Test Unit S300PTU. Furthermore, the S300PTU is used to adjust the response sensitivity of the detector to the local requirements.

Features:

- Response sensitivity can be set to one of three levels (low-medium-high)
- Detector status, degree of contamination, detector address, response sensitivity as well as date of latest maintenance can be scanned and edited via the Programming and Test Unit S300PTU.
- Insect screen
- Individual detector addressing with Programming and Test Unit S300PTU
- Functionality can be checked through test activation by means of Programming and Test Unit S300PTU or Remote Test Unit ECO1000RTU
- Terminal for external remote indicator
- Mechanical theft protection in the base

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	85 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP20
Protection class	IP23 (with Wet Base Shroud WB-1AP)
Ambient temperature	from -30 °C to 70 °C
Application temperature max.	50 °C
Alarm temperature max.	58 °C
Dimensions Ø × H	102 × 43 mm
Weight	75 g
Colour	cream
Approval number CPR	2831-CPR-F1968
Approval number VdS	G 202018
Approval number LPCB	199p/03

Cross-references	Page	Art.No.	Name Type
	287	246008	Detector Base/400/300/100 B401RM1000
	287	246019	Detector Base 400/300/100 B401DGR1000
	290	246117	Programming and Test Unit/300 S300PTU
	290	246150	Remote Test Unit/300/1000 ECO1000RTU
	223	246160	Wet Base Shroud/200AP WB-1AP

242040 Thermal RoR Detector/300/A1R 5351E

The thermal rate-of-rise detector reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 58 °C according to EN 54-5, Class A1R. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5 m.



Features:

- Detector status, detector address as well as date of latest maintenance can be scanned via the Programming and Test Unit S300PTU
- Individual detector addressing with Programming and Test Unit S300PTU
- Functionality can be checked through test activation by means of Programming and Test Unit S300PTU or Remote Test Unit ECO1000RTU
- Terminal for external remote indicator
- Mechanical theft protection in the base

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	80 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP20
Protection class	IP23 (with Wet Base Shroud WB-1AP)
Ambient temperature	from -30 °C to 70 °C
Application temperature max.	50 °C
Alarm temperature	58 °C
Dimensions Ø × H	102 × 43 mm
Weight	75 g
Colour	cream
Approval number CPR	2831-CPR-F1959
Approval number VdS	G 202014
Approval number LPCB	199n/07

Cross-references	Page	Art.No.	Name Type
	287	246008	Detector Base/400/300/100 B401RM1000
	287	246019	Detector Base 400/300/100 B401DGR1000
	290	246117	Programming and Test Unit/300 S300PTU
	290	246150	Remote Test Unit/300/1000 ECO1000RTU
	223	246160	Wet Base Shroud/200AP WB-1AP

242042 Thermal Max Detector/300/A2S 5351TE

The maximum heat detector reacts to a maximum temperature of 58 °C according to EN 54-5, Class A2S. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 6 m.



Features:

- Detector status, detector address as well as date of latest maintenance can be scanned via the Programming and Test Unit S300PTU
- Individual detector addressing with Programming and Test Unit S300PTU
- Functionality can be checked through test activation by means of Programming and Test Unit S300PTU or Remote Test Unit ECO1000RTU
- Terminal for external remote indicator
- Mechanical theft protection in the base

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	85 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP20
Protection class	IP23 (with Wet Base Shroud WB-1AP)
Ambient temperature	from -30 °C to 70 °C
Application temperature max.	50 °C
Alarm temperature	58 °C
Dimensions Ø × H	102 × 43 mm
Weight	75 g
Colour	cream
Approval number CPR	2831-CPR-F1964
Approval number LPCB	199n/14

Cross-references	Page	Art.No.	Name Type
	287	246008	Detector Base/400/300/100 B401RM1000
	287	246019	Detector Base 400/300/100 B401DGR1000
	290	246117	Programming and Test Unit/300 S300PTU
	290	246150	Remote Test Unit/300/1000 ECO1000RTU
	223	246160	Wet Base Shroud/200AP WB-1AP

242041 Thermal Max Detector/300/BS 4351E

The maximum heat detector reacts to a maximum temperature of 78 °C according to EN 54-5, Class BS. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 6 m.



Features:

- Detector status, detector address as well as date of latest maintenance can be scanned via the Programming and Test Unit S300PTU
- Individual detector addressing with Programming and Test Unit S300PTU
- Functionality can be checked through test activation by means of Programming and Test Unit S300PTU or Remote Test Unit ECO1000RTU
- Terminal for external remote indicator
- Mechanical theft protection in the base

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	85 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP20
Protection class	IP23 (with Wet Base Shroud WB-1AP)
Ambient temperature	from -30 °C to 70 °C
Application temperature max.	65 °C
Alarm temperature	78 °C
Dimensions Ø × H	102 × 43 mm
Weight	75 g
Colour	cream
Approval number CPR	2831-CPR-F1960
Approval number VdS	G 202016
Approval number LPCB	199n/08

Cross-references	Page	Art.No.	Name Type
	287	246008	Detector Base/400/300/100 B401RM1000
	287	246019	Detector Base 400/300/100 B401DGR1000
	290	246117	Programming and Test Unit/300 S300PTU
	290	246150	Remote Test Unit/300/1000 ECO1000RTU
	223	246160	Wet Base Shroud/200AP WB-1AP

241045 Optical Smoke Detector/1000 ECO1003

The Optical Smoke Detector ECO1003 operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for applications using conventional technology and is suitable for indoor mounting.



Features:

- Insect screen
- Terminal for external remote indicator
- Function can be checked through test activation by means of Remote Test Unit ECO1000RTU

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	65 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP40
Ambient temperature	from -30 °C to 70 °C
Dimensions Ø × H	102 × 32,5 mm
Weight	75 g
Colour	white
Approval number CPR	2831-CPR-F1876

Approval number VdS G 201060
Approval number LPCB 199m/01

Cross-references	Page	Art.No.	Name Type
	288	246140	Detector Base/1000 ECO1000BR1000
	290	246150	Remote Test Unit/300/1000 ECO1000RTU

241046 Optical-Thermal Detector/1000 ECO1002

The Optical-Thermal Detector ECO1002 operates both with an optical sensing chamber based on the principle of scattered light and with a rate-of-rise temperature sensor according to EN 54-5 Class A1R. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5 m. The alarm evaluation is based on the analysis of the measured values from both detection units; if only one of the characteristics of fire – smoke or heat – occurs, false alarms can be mostly avoided.



Features:

- Insect screen
- Terminal for external remote indicator
- Function can be checked through test activation by means of Remote Test Unit ECO1000RTU

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	80 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP20
Ambient temperature	from -30 °C to 70 °C
Application temperature max.	50 °C
Alarm temperature max.	58 °C
Dimensions Ø × H	102 × 40,5 mm
Weight	75 g
Colour	white
Approval number CPR	2831-CPR-F1875
Approval number VdS	G 201067
Approval number LPCB	199p/01

Cross-references	Page	Art.No.	Name Type
	288	246140	Detector Base/1000 ECO1000BR1000
	290	246150	Remote Test Unit/300/1000 ECO1000RTU

242047 Thermal Max Detector/1000/BS ECO1004T

The maximum heat detector reacts to a maximum temperature of 78 °C according to EN 54-5, Class BS. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 6 m.



Features:

- Terminal for external remote indicator
- Function can be checked through test activation by means of Remote Test Unit ECO1000RTU

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	75 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP20
Ambient temperature	from -30 °C to 70 °C

Application temperature max.	65 °C
Alarm temperature	78 °C
Dimensions Ø × H	102 × 40,5 mm
Weight	70 g
Colour	white
Approval number CPR	2831-CPR-F1877
Approval number VdS	G 204042
Approval number LPCB	199n/09

Cross-references	Page	Art.No.	Name Type
	288	246140	Detector Base/1000 ECO1000BR1000
	290	246150	Remote Test Unit/300/1000 ECO1000RTU

242045 Thermal RoR Detector/1000/A1R ECO1005

The thermal rate-of-rise detector reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 58 °C according to EN 54-5, Class A1R. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5 m.



Features:

- Terminal for external remote indicator
- Function can be checked through test activation by means of Remote Test Unit ECO1000RTU

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	75 µA
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP20
Ambient temperature	from -30 °C to 70 °C
Application temperature max.	50 °C
Alarm temperature	58 °C
Dimensions Ø × H	102 × 40,5 mm
Weight	70 g
Colour	white
Approval number CPR	2831-CPR-F1878
Approval number VdS	G 201016
Approval number LPCB	199n/01

Cross-references	Page	Art.No.	Name Type
	288	246140	Detector Base/1000 ECO1000BR1000
	290	246150	Remote Test Unit/300/1000 ECO1000RTU

242046 Thermal Max Detector/1000/A2S ECO1005T

The maximum heat detector reacts to a maximum temperature of 58 °C according to EN 54-5, Class A2S. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 6 m.



Features:

- Terminal for external remote indicator
- Function can be checked through test activation by means of Remote Test Unit ECO1000RTU

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	75 µA
Relative humidity (no condensation)	from 5 % to 95 %

Protection class	IP20
Ambient temperature	from -30 °C to 70 °C
Application temperature max.	50 °C
Alarm temperature	58 °C
Dimensions Ø × H	102 × 40,5 mm
Weight	70 g
Colour	white
Approval number CPR	2831-CPR-F1879
Approval number VdS	G 201073
Approval number LPCB	199n/06

Cross-references	Page	Art.No.	Name Type
	288	246140	Detector Base/1000 ECO1000BR1000
	290	246150	Remote Test Unit/300/1000 ECO1000RTU

246008 Detector Base/400/300/100 B401RM1000

The detector base is designed to accommodate automatic fire detectors Series 400, 300 and 100 in conventional technology. The base is designed for indoor surface mounting.

Features:

- Screw terminals for secure connection of multiple wires
- Auxiliary contact for the through connection of the detector line when the detector is removed
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications:

Relative humidity (no condensation)	from 10 % to 93 %
Ambient temperature	from -20 °C to 70 °C
Dimensions Ø × H	102 × 20 mm
Weight	55 g
Colour	cream



246019 Detector Base 400/300/100 B401DGR1000

The detector base is designed to accommodate automatic fire detectors Series 400, 300 and 100 in conventional technology. The deep base is suitable for indoor surface mounting and can also be used with thick cables.

Features:

- Screw terminals for secure connection of multiple wires
- Auxiliary contact for the through connection of the detector line when the detector is removed
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications:

Relative humidity (no condensation)	from 10 % to 93 %
Ambient temperature	from -20 °C to 70 °C
Dimensions Ø × H	102 × 26 mm
Weight	59 g
Colour	cream



246140 Detector Base/1000 ECO1000BR1000

The detector base is designed to accommodate automatic fire detectors Series ECO1000 and is suitable for indoor surface mounting.

Features:

- Auxiliary contact for the through connection of the detector line when the detector is removed
- Terminal for external remote indicator
- Screw terminals for secure connection of multiple wires

Specifications:

Relative humidity (no condensation)	from 5 % to 95 %
Ambient temperature	from -30 °C to 70 °C
Dimensions Ø × H	102 × 21 mm
Weight	44 g
Colour	white



246141 Detector Base/1000/Relay/Latching ECO1000BREL24L

The detector base with integrated relay output is designed to accommodate automatic fire detectors Series ECO1000 and is suitable for indoor surface mounting. The detector base is designed for connection to control panels with a 24 VDC operating voltage. The relay output is activated by the alarm condition of the inserted detector and remains in the activated state until the alarm is reset on the fire detection control panel. Application must comply with the LST detector connection.

Features:

- Auxiliary contact for the through connection of the detector line when the detector is removed
- Relay output with dry change-over contact
- Screw terminals for secure connection of multiple wires

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	1 µA (quiescent)
Current consumption max.	30 mA (active)
Contact rating	1 A / 30 VDC
Relative humidity (no condensation)	from 5 % to 93 %
Ambient temperature	from -30 °C to 70 °C
Dimensions Ø × H	102 × 33 mm
Weight	70 g
Colour	white



246142 Detector Base/1000/Relay/Latching ECO1000BREL12L

The detector base with integrated relay output is designed to accommodate automatic fire detectors Series ECO1000 and is suitable for indoor surface mounting.

The detector base is intended for connection to control panels with a 12 VDC operating voltage, and therefore must **not** be connected to Fire Detection Control Panels Series BC08, BC06, BC016, BC600 and BC216. The relay output is activated by the alarm condition of the inserted detector and remains in the activated state until the operating voltage has been (shortly) interrupted.

Features:

- Relay output with dry change-over contact



- Screw terminals for secure connection of multiple wires

Specifications:

Operating voltage	from 10 VDC to 15 VDC
Current consumption typ.	1 μ A at 12 V (quiescent)
Current consumption max.	25 mA (active)
Contact rating	1 A / 30 VDC
Relative humidity (no condensation)	from 5 % to 93 %
Ambient temperature	from -30 °C to 70 °C
Dimensions $\varnothing \times$ H	102 \times 33 mm
Weight	70 g
Colour	white

246143 Detector Base/1000/Relay ECO1000BREL12NL

The detector base with integrated relay output is designed to accommodate automatic fire detectors Series ECO1000 and is suitable for indoor surface mounting.

The detector base is intended for connection to control panels with a 12 VDC operating voltage, and therefore must **not** be connected to Fire Detection Control Panels Series BC08, BC06, BC016, BC600 and BC216. The relay output is activated by the alarm condition of the inserted detector; the detector and the relay output are automatically reset a few seconds after the fire detection.



Features:

- Relay output with dry change-over contact
- Screw terminals for secure connection of multiple wires

Specifications:

Operating voltage	from 10 VDC to 15 VDC
Current consumption typ.	20 μ A at 12 V (quiescent)
Current consumption max.	30 mA (active)
Contact rating	1 A / 30 VDC
Relative humidity (no condensation)	from 5 % to 93 %
Ambient temperature	from -30 °C to 70 °C
Dimensions $\varnothing \times$ H	102 \times 33 mm
Weight	70 g
Colour	white

246113 Zonal Display Unit/300 S300ZDU

The zonal display unit allows for the numerical display of the activated detectors' addresses on a conventional detector line built from Series 300 fire detectors. If more than one detector is in the alarm condition, the addresses are automatically scrolled. In addition, the zonal display unit detects and displays wiring errors between control panel and zonal display unit as well as short circuits in the detector line.



Features:

- Multiple alarms can be displayed
- 4-digit display
- Can be used at another place than the fire detection control panel

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	100 μ A
Relative humidity (no condensation)	from 5 % to 95 %

Protection class	IP51
Ambient temperature	from -10 °C to 50 °C
Dimensions W × H × D	137 × 132 × 40 mm
Weight	170 g
Colour	cream

246117 Programming and Test Unit/300 S300PTU

The hand-held programming device is used for setting and reading the parameters of Series 300 detectors. The device can exchange data with a Series 300 detector over short distances. In the Satellite Unit For Remote Programming data and time can be set. This date information can be stored as timestamp of the latest maintenance date in the maintained detector.



Features:

- Setting of date and time in the device
- Setting of the detector address
- Setting of the response sensitivity (only possible with 2351E and 2351TEM)
- Setting of the maintenance date
- Indication of the detector contamination (only possible with 2351E and 2351TEM)
- Indication of the detector status (separately for smoke and temperature value with 2351TEM)
- Indication of the latest maintenance date
- Function test (test activation) of Series 300 detectors

Specifications:

Energy supply	3 batteries 1.5 VDC
Battery type	AAA
Relative humidity (no condensation)	from 5 % to 95 %
Ambient temperature	from -10 °C to 50 °C
Dimensions L × W × H	128 × 58 × 20 mm
Weight	100 g

246150 Remote Test Unit/300/1000 ECO1000RTU

The hand-held laser test unit is used for easy test activation of Series 300 and ECO1000 detectors.



Features:

- Range of several metres
- Easy handling due to visible laser beam

Specifications:

Energy supply	1 battery 6 V
Battery type	V11GA
Dimensions L × W × H	82 × 30 × 15 mm
Weight	30 g

Cross-references	Page	Art.No.	Name Type
	291	249212	Battery For ECO1000RTU 6V-V11GA

249212 Battery For ECO1000RTU 6V-V11GA

The 6 V battery is used for powering the Remote Test Unit ECO1000RTU.

Features:

- High quality alkaline battery
- Low self-discharge
- Long lifespan

Specifications:

Dimensions $\varnothing \times L$

10 × 16 mm



8.3 Series ORBIS

241060 Optical Smoke Detector/Orbis OP-12001

The optical smoke detector operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for applications using conventional technology and is suitable for indoor mounting. Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – an effective measure for preventing false alarms. If the contamination of the sensing system is too heavy or if it is defective, the multicoloured status LED of the detector will blink in yellow for approx. 4 minutes after enablement of the detector line.



Features:

- Terminal for external remote indicator
- Insect screen
- Sealed electronics prevent false alarms caused by the environment
- Mechanical theft protection

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	65 μ A
Relative humidity (no condensation) max.	98 %
Ambient temperature	from -40 °C to 70 °C (no condensation or icing)
Dimensions $\varnothing \times H$	100 \times 31 mm
Weight	75 g
Colour	white
Approval number CPR	2531-CPR-CSP10968
Approval number VdS	G 204039
Approval number LPCB	010s/01

Cross-references	Page	Art.No.	Name Type
	296	246042	Detector Base/Orbis MB-00001

241061 Optical-Thermal Detector/Orbis OH-13001

The optical-thermal detector operates both with an optical sensing chamber based on the principle of scattered light and with a temperature sensor based on the heat detection principle. The detector is designed for applications using conventional technology and is suitable for indoor mounting. Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – an effective measure for preventing false alarms. If the contamination of the optical sensing system is too heavy or if it is defective, the multicoloured status LED of the detector will blink in yellow for approx. 4 minutes after enablement of the detector line.



Features:

- Terminal for external remote indicator
- Insect screen
- Sealed electronics prevent false alarms caused by the environment
- Mechanical theft protection

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	65 μ A
Relative humidity (no condensation) max.	98 %

Ambient temperature	from -40 °C to 70 °C (no condensation or icing)
Dimensions Ø × H	100 × 42 mm
Weight	80 g
Colour	white
Approval number CPR	2531-CPR-CSP11156
Approval number VdS	G 204040
Approval number LPCB	010t/01

Cross-references	Page	Art.No.	Name Type
	296	246042	Detector Base/Orbis MB-00001

242030 Thermal RoR Detector/Orbis/A1R HT-11001

The thermal rate-of-rise detector reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 57 °C according to EN 54-5, Class A1R. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5 m.

If the detector experiences a fault, the multicoloured status LED of the detector will blink in yellow for approx. 4 minutes after enablement of the detector line.



Features:

- Terminal for external remote indicator
- Sealed electronics prevent false alarms caused by the environment
- Mechanical theft protection

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	65 µA
Relative humidity (no condensation) max.	98 %
Ambient temperature	from -40 °C to 70 °C (no condensation or icing)
Application temperature max.	50 °C
Alarm temperature	57 °C
Dimensions Ø × H	100 × 36 mm
Weight	70 g
Colour	white
Approval number CPR	2531-CPR-CSP10954
Approval number VdS	G 204033
Approval number LPCB	010r/01

Cross-references	Page	Art.No.	Name Type
	296	246042	Detector Base/Orbis MB-00001

242031 Thermal Max Detector/Orbis/A2S HT-11002

The maximum heat detector reacts to a maximum temperature of 61 °C according to EN 54-5, Class A2S. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 6 m.

If the detector experiences a fault, the multicoloured status LED of the detector will blink in yellow for approx. 4 minutes after enablement of the detector line.



Features:

- Terminal for external remote indicator
- Sealed electronics prevent false alarms caused by the environment
- Mechanical theft protection

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	65 µA
Relative humidity (no condensation) max.	98 %
Ambient temperature	from -40 °C to 70 °C (no condensation or icing)
Application temperature max.	50 °C
Alarm temperature typ.	61 °C
Dimensions Ø × H	100 × 36 mm
Weight	70 g
Colour	white
Approval number CPR	2531-CPR-CSP10959
Approval number LPCB	010r/02

Cross-references	Page	Art.No.	Name Type
	296	246042	Detector Base/Orbis MB-00001

242032 Thermal RoR Detector/Orbis/BR HT-11003

The thermal rate-of-rise detector reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 75 °C according to EN 54-5, Class BR. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 6 m.

If the detector experiences a fault, the multicoloured status LED of the detector will blink in yellow for approx. 4 minutes after enablement of the detector line.



Features:

- Terminal for external remote indicator
- Sealed electronics prevent false alarms caused by the environment
- Mechanical theft protection

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	65 µA
Relative humidity (no condensation) max.	98 %
Ambient temperature	from -40 °C to 70 °C (continuous operation, no condensation or icing)
Application temperature max.	65 °C
Alarm temperature	75 °C
Dimensions Ø × H	100 × 36 mm
Weight	70 g
Colour	white
Approval number CPR	2531-CPR-CSP10960
Approval number LPCB	010r/03

Cross-references	Page	Art.No.	Name Type
	296	246042	Detector Base/Orbis MB-00001

242033 Thermal Max Detector/Orbis/BS HT-11004

The maximum heat detector reacts to a maximum temperature of 75 °C according to EN 54-5, Class BS. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 6 m.

If the detector experiences a fault, the multicoloured status LED of the detector will blink in yellow for approx. 4 minutes after enablement of the detector line.



Features:

- Terminal for external remote indicator
- Sealed electronics prevent false alarms caused by the environment
- Mechanical theft protection

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	65 µA
Relative humidity (no condensation) max.	98 %
Ambient temperature	from -40 °C to 70 °C (continuous operation, no condensation or icing)
Application temperature max.	65 °C
Alarm temperature	75 °C
Dimensions Ø × H	100 × 36 mm
Weight	70 g
Colour	white
Approval number CPR	2531-CPR-CSP10961
Approval number LPCB	010r/04

Cross-references	Page	Art.No.	Name Type
	296	246042	Detector Base/Orbis MB-00001

242034 Thermal RoR Detector/Orbis/CR HT-11005

The thermal rate-of-rise detector reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 90 °C according to EN 54-5, Class CR. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 6 m.

If the detector experiences a fault, the multicoloured status LED of the detector will blink in yellow for approx. 4 minutes after enablement of the detector line.



Features:

- Terminal for external remote indicator
- Sealed electronics prevent false alarms caused by the environment
- Mechanical theft protection

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	65 µA
Relative humidity (no condensation) max.	98 %
Ambient temperature	from -40 °C to 70 °C (continuous operation, no condensation or icing)
Application temperature max.	80 °C
Alarm temperature	90 °C
Dimensions Ø × H	100 × 36 mm
Weight	70 g
Colour	white
Approval number CPR	2531-CPR-CSP10962
Approval number LPCB	010r/05

Cross-references	Page	Art.No.	Name Type
	296	246042	Detector Base/Orbis MB-00001

242035 Thermal Max Detector/Orbis/CS HT-11006

The maximum heat detector reacts to a maximum temperature of 90 °C according to EN 54-5, Class CS. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 6 m.

If the detector experiences a fault, the multicoloured status LED of the detector will blink in yellow for approx. 4 minutes after enablement of the detector line.



Features:

- Terminal for external remote indicator
- Sealed electronics prevent false alarms caused by the environment
- Mechanical theft protection

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	65 µA
Relative humidity (no condensation) max.	98 %
Ambient temperature	from -40 °C to 70 °C (continuous operation, no condensation or icing)
Application temperature max.	80 °C
Alarm temperature typ.	90 °C
Dimensions Ø × H	100 × 36 mm
Weight	70 g
Colour	white
Approval number CPR	2531-CPR-CSP10963
Approval number LPCB	010r/06

Cross-references	Page	Art.No.	Name Type
	296	246042	Detector Base/Orbis MB-00001

246042 Detector Base/Orbis MB-00001

The detector base is designed to accommodate automatic fire detectors Series Orbis and is suitable for indoor surface mounting.

Features:

- Terminal for external remote indicator
- Screw terminals for secure connection of multiple wires

Specifications:

Relative humidity (no condensation)	from 0 % to 98 %
Ambient temperature	from -40 °C to 70 °C
Dimensions Ø × H	100 × 23 mm
Weight	60 g
Colour	white



Cross-references	Page	Art.No.	Name Type
	272	246029	Conduit Box/Apo 45681-204
	272	246030	Backplate/Apo 45681-233

246041 Detector Base/Orbis/Relay RB-10004

The detector base is designed to accommodate automatic fire detectors Series Orbis and is suitable for indoor surface mounting. The integrated relay output is active as long as the detector remains in the alarm condition. Application must comply with the LST detector connection.



Features:

- Relay output with dry change-over contact
- Screw terminals for secure connection of multiple wires

Specifications:

Operating voltage	from 10 VDC to 33 VDC
Current consumption max.	7 mA
Contact rating	1 A / 30 VDC
Relative humidity (no condensation)	from 0 % to 98 %
Ambient temperature	from -40 °C to 70 °C
Dimensions Ø × H	100 × 31 mm
Weight	80 g
Colour	white

Cross-references	Page	Art.No.	Name Type
	272	246029	Conduit Box/Apo 45681-204
	272	246030	Backplate/Apo 45681-233

8.4 Manual Call Points

240302 MCP/red/Conventional HME/3000/11/H1/02

The manual call point according to EN 54-11 / type B in the aluminium die-cast design housing is implemented in conventional technology. The call point is activated by breaking the glass pane and pressing the button.



Features:

- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Red LED for the optical indication of the activation condition
- Latching push button
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Operating voltage	supplied through detector line voltage
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	flame red, RAL 3000
Approval number CPR	0786-CPR-21594
Approval number VdS	G 218045

Cross-references	Page	Art.No.	Name Type
	314	249633	Protective Cover V2A for MCP/Red WG/ROT-E-1
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240108 MCP/red/Conventional/FEUER HME/3000/12/52/02/IP65

As regards the function and cross-references, this red manual call point is identical to the Manual Call Point HME/3000/11/H1/02. By means of a second change-over contact, additional switching actions can be carried out in the event of activation. Thanks to the gasket elements which have already been installed, it has protection class IP65.

The call point contains a door label with a house symbol and the text „FEUER“.



Features:

- Changeable door label with house symbol + „FEUER“, with house symbol on the reverse
- Second change-over contact by means of which additional switching actions can be carried out in the event of activation

Specifications:

Protection class	IP65
Dimensions W × H × D	127 × 127 × 35 mm
Weight	450 g
Approval number CPR	0786-CPR-21594

Approval number VdS

G 218045

240322 MCP/blue/Conventional/HAUSALARM HME/5015/11/02/02

The manual call point in the blue aluminium die-cast design housing is implemented in conventional technology. The call point is activated by breaking the glass pane and pressing the button.



Features:

- Door label „HAUSALARM“, replaceable
- Latching (default) or non-latching push button
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Red LED for the optical indication of the activated condition
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Operating voltage	supplied through detector line voltage
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	sky blue, RAL 5015

Cross-references	Page	Art.No.	Name Type
	314	249634	Protective Cover V2A for MCP/blue WG/BLAU-E-1
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240160 MCP/blue/Conventional/HAUSALARM HME/5015/12/02/02/IP65

As regards the function and cross-references, this blue manual call point is identical to the Manual Call Point HME/5015/11/02/02. However, it contains a second switch with a change-over contact by means of which additional switching actions can be carried out in the event of activation. Thanks to the gasket elements which have already been installed, the manual call point has protection class IP65. The operating unit has the LST logo printed on it.



Features:

- Door label „HAUSALARM“, replaceable
- Second change-over contact by means of which additional switching actions can be carried out in the event of activation
- 2 cable glands M20 × 1.5 mm, 1 dummy cable gland
- Latching (default) or non-latching push button

Specifications:

Protection class	IP65
Dimensions W × H × D	127 × 127 × 35 mm
Weight	450 g

240332 MCP/yellow/Conventional/HANDAUSLÖS. HME/1021/11/17/02

The manual call point in the yellow aluminium die-cast design housing operates as electrical activation device for extinguishing systems using gaseous or other extinguishing agents and is implemented in conventional technology. The call point is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to the standards EN 54-17 and EN 12094-3.



Features:

- Changeable door label „HANDAUSLÖSUNG Gaslöschanlage“ according to EN 12094-3, with „HANDAUSLÖSUNG Feuerlöschanlage“ according to VdS 2496 on the reverse
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Red LED for the optical indication of the activation condition
- Latching push button
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Operating voltage	supplied through detector line voltage
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	rape yellow, RAL 1021
Approval number CPR	0786-CPR-21595
Approval number VdS	G 218046

Cross-references	Page	Art.No.	Name Type
	314	249636	Protective Cover V2A for MCP/yellow WG/GELB-E-1
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240378 MCP/yellow/Conventional/MANUAL RELEASE HME/1021/11/17/02-EN

New

As regards the function and cross-references, this yellow manual call point is identical to the Manual Call Point HME/1021/11/17/02. The door label is lettered in English.

Features:

- Changeable door label „MANUAL RELEASE GAS EXTINGUISHING SYSTEM“ according to EN 12094-3



Specifications:

Protection class	IP43
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
Approval number CPR	0786-CPR-21595
Approval number VdS	G 218046

240109 MCP/yellow/Conventional/HANDAUSLÖS. HME/1021/12/17/02/IP65

As regards the function and cross-references, this yellow manual call point is identical to the Manual Call Point HME/1021/11/17/02. By means of a second change-over contact, additional switching actions can be carried out in the event of activation. Thanks to the gasket elements which have already been installed, it has protection class IP65.



Features:

- Changeable door label „HANDAUSLÖSUNG Gaslöschanlage“ according to EN 12094-3, with „HANDAUSLÖSUNG Feuerlöschanlage“ according to VdS 2496 on the reverse
- Second change-over contact by means of which additional switching actions can be carried out in the event of activation
- 2 cable glands M20 × 1.5 mm, 1 dummy cable gland

Specifications:

Protection class	IP65
Dimensions W × H × D	127 × 127 × 35 mm
Weight	450 g
Approval number CPR	0786-CPR-21595
Approval number VdS	G 218046

240342 MCP/blue/Conventional/STOPP HME/5015/11/18/02

The manual call point in the blue aluminium die-cast design housing operates as electrical emergency hold device for extinguishing systems using gaseous or other extinguishing agents and is implemented in conventional technology. The call point is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to the standards EN 54-17 and EN 12094-3.



Features:

- Door label „STOPP-TASTER Gaslöschanlage“, replaceable
- Non-latching push button
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Red LED for the optical indication of the activated condition
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Operating voltage	supplied through detector line voltage
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	sky blue, RAL 5015
Approval number CPR	0786-CPR-21596
Approval number VdS	G 218047

Cross-references	Page	Art.No.	Name Type
	314	249634	Protective Cover V2A for MCP/blue WG/BLAU-E-1
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT

Cross-references	Page	Art.No.	Name Type
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240377 MCP/blue/Conventional/STOP HME/5015/11/18/02-EN

New

As regards the function and cross-references, this blue manual call point is identical to the Manual Call Point HME/5015/11/18/02. The door label is lettered in English.

Features:

- Door label „EMERGENCY STOP GAS EXTINGUISHING SYSTEM“, replaceable
- Non-latching push button



Specifications:

Protection class	IP43
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
Approval number CPR	0786-CPR-21596
Approval number VdS	G 218047

240161 MCP/blue/Conventional/STOPP HME/5015/12/18/02/IP65

As regards the function and cross-references, this blue manual call point is identical to the Manual Call Point HME/5015/11/18/02. By means of a second change-over contact, additional switching actions can be carried out in the event of activation. Thanks to the gasket elements which have already been installed, it has protection class IP65.

Features:

- Door label „STOPP-TASTER Gaslöschanlage“, replaceable
- Second change-over contact by means of which additional switching actions can be carried out in the event of activation
- 2 cable glands M20 × 1.5 mm, 1 dummy cable gland
- Non-latching push button



Specifications:

Protection class	IP65
Dimensions W × H × D	127 × 127 × 35 mm
Weight	450 g
Approval number CPR	0786-CPR-21596
Approval number VdS	G 218047

240382 MCP/green/Conventional/NACHFLUTEN HME/6002/11/19/02

The manual call point in the green aluminium die-cast design housing is used to activate a secondary flooding in extinguishing systems with gaseous or other extinguishing agents and is implemented in conventional technology. The call point is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to VdS 2496. The operating unit has the LST logo printed on it.

Features:

- Door label „NACHFLUTEN Gaslöschanlage“, replaceable
- Non-latching push button
- Robust aluminum die-cast housing with a door aperture angle of more than 180°



- Operating instructions in the form of symbols (EN 54-11)
- Red LED for the optical indication of the activated condition
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Operating voltage	supplied through detector line voltage
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	leaf green, RAL 6002
Approval number VdS	G 218047

Cross-references	Page	Art.No.	Name Type
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	315	249694	Protective Cover V2A for MCP/green WG/GRÜN-E-1
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240679 MCP/green/Conventional/AUSL.BFS HME/6002/12/29/00/N

The manual call point in the green aluminium die-cast design housing is implemented in conventional technology. By means of a second change-over contact which is specified for mains voltage, additional switching actions can be carried out in the event of activation. The call point is activated by breaking the glass pane and pressing the button.

Depending on which side of the replaceable door label that has text printed on both sides is visible, the manual call point can be used for the following functions:



- Door label „Auslösung Brandfallsteuerungen“ (delivery condition): The manual call point is required according to ÖNORM F 3001 for manually overriding fire controls. The device is to be connected to the fire control panel.
- Door label „Aufzug Brandfallsteuerung“ (reverse): The manual call point is required according to TRVB S 111 for actuating lifts in the event of fire. The device is to be connected to the lift control or – if the building is equipped with a fire detection system – to the fire control panel.

Features:

- Second switch with change-over contact
- Terminal for protective earthing in case of mains voltage operation of the change-over contact
- Latching (default) or non-latching push button
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Red LED for the optical indication of the activated condition
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Operating voltage	supplied through detector line voltage
Contact rating 2nd switch	2 A / 25 VAC or 2 A / 30 VDC
Relative humidity (no condensation)	from 5 % to 95 %

Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	leaf green, RAL 6002

Cross-references	Page	Art.No.	Name Type
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	315	249694	Protective Cover V2A for MCP/green WG/GRÜN-E-1
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240819 MCP/orange/Conv/SCHLEUSENLÜFTUNG HME/2011/11/22/02

The manual call point in the orange aluminium die-cast design housing is implemented in conventional technology. The manual call point is used for the actuation of a ventilation system of a room between a garage and a staircase. The call point is activated by breaking the glass pane and pressing the button.



Features:

- Door label „SCHLEUSENLÜFTUNG bei Brand in Garage“, replaceable
- Latching (default) or non-latching push button
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Red LED for the optical indication of the activation condition
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optionally available with protection class IP65
- Optional protective cover can provide additional mechanical protection

Specifications:

Operating voltage	supplied through detector line voltage
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	deep orange, RAL 2011

Cross-references	Page	Art.No.	Name Type
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	315	249691	Protective Cover V2A for MCP/orange WG/ORANGE-E-1
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240830 MCP/orange/FT4A-01/DRUCKBELÜFTUNG HME/2011/82/24/00

The manual call point in the orange aluminium die-cast design housing is provided with a dry change-over contact. The manual call point is used for the actuation of forced ventilation systems. The call point is activated by breaking the glass pane and pressing the button.



Features:

- Door label „DRUCKBELÜFTUNG“, replaceable
- Green LED display „Power“
- Yellow LED display „Fault“
- Red LED display „Activated“
- Latching (default) or non-latching push button
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Contact rating	2 A / 25 VAC or 2 A / 30 VDC
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	deep orange, RAL 2011

Cross-references	Page	Art.No.	Name Type
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	315	249691	Protective Cover V2A for MCP/orange WG/ORANGE-E-1
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240710 MCP/orange/3LED/M.ENTRAUCHUNG HME/2011/93/08/00

The manual call point in the orange aluminium die-cast design housing is provided with a dry change-over contact. The manual call point is used for the actuation of mechanical smoke extractors. The call point is activated by breaking the glass pane and pressing the button.



Features:

- Door label „MASCHINELLE ENTRAUCHUNG“, replaceable
- Green LED display „Power“
- Yellow LED display „Fault“
- Red LED display „Activated“
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Contact rating	2 A / 25 VAC or 2 A / 30 VDC
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Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	deep orange, RAL 2011

Cross-references	Page	Art.No.	Name Type
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	315	249691	Protective Cover V2A for MCP/orange WG/ORANGE-E-1
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240800 MCP/white/S2/NOTFALL HME/1013/92/40/00

The manual call point in the white aluminium die-cast design housing contains two independent switches with one change-over contact each. The call point is activated by breaking the glass pane and pressing the button.

The manual call point is designed for connection to an emergency and danger response system according to VDE 0827-1 and is used if quick alarming of the helping forces is required.



Features:

- Blue user interface with operating instructions in the form of white symbols (EN 54-11)
- Door label „NOTFALL“, replaceable, optionally „POLIZEI-NOTRUF“
- Latching (default) or non-latching push button
- Two switches with change-over contact
- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optionally available with protection class IP65
- Optional protective cover can provide additional mechanical protection

Specifications:

Contact rating	2 A / 25 VAC or 2 A / 30 VDC
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43 (without protection kit)
Ambient temperature	from -20 °C to 60 °C (continuous operation)
Ambient temperature	from -25 °C to 70 °C (max. 12 hours)
Dimensions W × H × D	127 × 127 × 35 mm
Weight	420 g
RAL colour	oyster white, RAL 1013

Cross-references	Page	Art.No.	Name Type
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	317	249675	Special Designation HME/Sheet HME-TS-SFT
	317	249687	Key for Manual Call Point SU=10 SCHL-HME/10STK
	316	249135	Flush Mounting Kit HME-UP1
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

245047 Key Switch K20SWS-11

The key switch with 2 switch positions is integrated in a white plastic case. By means of the switch, operating conditions of fire detection systems or extinguishing systems which require authorization through a key, can be switched. For example, it is possible to switch between day and night operation or between automatic and manual mode in this way. The key switch is designed for indoor surface mounting.



Features:

- 2 positions, key can be withdrawn in both positions
- 2 keys included in the delivery

Specifications:

Contact rating	6 A / 24 VDC or 2 A / 250 VAC
Protection class	IP24
Ambient temperature	from -20 °C to 55 °C
Dimensions W × H × D	87 × 87 × 52 mm
Weight	160 g
Colour	white

9

Detector Accessories



9.1 Detector Accessories, general

249044 Detector Mounting Bracket MMW1-1

The metal bracket is made of galvanised sheet steel and is used for the lateral mounting of an automatic fire detector, for example in inserted floors, elevator shafts or shelves. The bracket is provided with two M4 threaded holes for easy mounting of a detector base.

Specifications:

Dimensions L × W × H	120 × 120 × 40 mm
Weight	300 g



249081 Detector Mounting Bracket MMW2-1

The metal bracket is made of galvanised sheet steel and is used for the lateral mounting of an automatic fire detector in elevator shafts or shelves. As a result of its size, the detector mounting bracket improves the inflow of smoke to the detector. The detector mounting bracket corresponds to TRVB 123. The bracket is provided with two M4 threaded holes for easy mounting of a detector base.

Specifications:

Dimensions L × W × H	300 × 300 × 40 mm
Weight	1.55 kg



249635 Trapeze Bracket TBH800-1

The trapezoid steel bracket is used for mounting an automatic fire detector on a trapezoid ceiling. The bracket is provided with two M4 threaded holes for easy mounting of detector base.

Specifications:

Dimensions L × W × H	35 × 95 × 95 mm
Weight	150 g



246605 False Floor Mounting Bracket MMK-250

New

The false floor mounting bracket is needed for mounting an automatic detector on a false floor support. The clip allows mounting at a variable height on tubes with a diameter of 22 to 40 mm.

Features:

- The wide design prevents ingress of dirt through the back of the detector
- Tilttable for easy detector maintenance
- Holes in 3 places for fixing the cables in position

Specifications:

Dimensions W × H × D	105 × 376 × 39 mm
Inclination angle	from 0 ° to 135 °
Weight	400 g
Material	sheet steel, powder coated
RAL colour	pure white, RAL 9010



249711 Detector Mounting Bracket/Ceiling MMK-90

The detector mounting bracket is used to align an automatic detector when it is mounted on a sloping ceiling. The mounting material is included in the delivery. The angle of tilt can be up to 90°.

Specifications:

Dimensions L × W × H	150 × 110 × 11 mm
Inclination angle	from 0 ° to 90 °
Weight	400 g
Material	sheet steel, powder coated
RAL colour	pure white, RAL 9010



249712 Detector Mounting Bracket/Floor/Ceiling MMK-200/350

The tiltable detector mounting bracket is used for mounting automatic detectors on the floor or ceiling. The length is continuously adjustable between 200 and 350 mm, depending on the application. The angle of tilt can be up to 90°.

Specifications:

Dimensions W × H × D	105 × 350 × 82 mm
Inclination angle	from 0 ° to 90 °
Weight	800 g
Material	sheet steel, powder coated
RAL colour	pure white, RAL 9010



249713 Detector Mounting Bracket/Floor/Ceiling MMK-400/550

The tiltable detector mounting bracket is used for mounting automatic detectors on the floor or ceiling. The length is continuously adjustable between 400 and 550 mm, depending on the application. The angle of tilt can be up to 90°.

Specifications:

Dimensions W × H × D	105 × 445 × 82 mm
Inclination angle	from 0 ° to 90 °
Weight	1.2 kg
Material	sheet steel, powder coated
RAL colour	pure white, RAL 9010



249277 Auxiliary Plate False Ceiling ZP-ZD-1

The auxiliary plate makes it easier to mount a detector base of any brand on false ceilings, for example if they are made of mineral fibre boards. The auxiliary plate is placed above the ceiling panel and screwed together with the detector base below the panel.



249710 Mounting Plate MP-120-1

The stainless steel plate makes it easier to mount a detector base of any brand on uneven solid ceilings and ensures that there is a reliable contact between the detector and the base.



Specifications:

Dimensions L × W × H	120 × 120 × 1 mm
Weight	90 g
Material	V2A stainless steel

Cross-references	Page	Art.No.	Name Type
	310	249635	Trapeze Bracket TBH800-1

249648 Protective Cage BWS-3/D1

The protective cage is used to protect a detector against mechanical impacts (e.g., ball shots) and unauthorised removal.

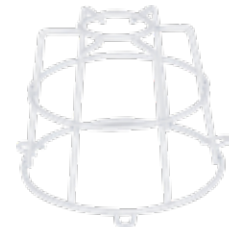


Specifications:

Dimensions Ø × H	145 × 142 mm
Dimensions protected device max. Ø × H	130 × 130 mm
Weight	153 g
Material	steel wire ST37
Colour	white

249647 Protective Cage/small/conical BWS-2/D1

The protective cage is used to protect a detector against mechanical impacts (e.g., ball shots) and unauthorised removal.



Specifications:

Dimensions Ø × H	131 × 100 mm
Dimensions protected device max. Ø × H	110 × 88 mm
Weight	97 g
Material	steel wire ST37
Colour	white

249014 PSU For Detector Heater MH-TR1

The power supply unit is used for generating the heating voltage for the detector heaters MH750-1, MH500-1, MH60-1 and MH95-1.



Features:

- Power supply for up to ten detector heaters
- Optical indication for operation and fault
- Monitored heating voltage, the malfunction can be forwarded to the fire detection control panel as fault message
- Wall-mount cabinet for surface mounting

Specifications:

Mains voltage	230 VAC +10/-15 %, 50 Hz
Power consumption (at 24 V)	200 VA
Output voltage typ.	40 VAC
Output current max.	5 A
Ambient temperature	from -5 °C to 50 °C

Dimensions W × H × D
Weight
RAL colour

200 × 300 × 155 mm
9 kg
light grey, RAL 7035

9.2 Accessories for Manual Call Points

249633 Protective Cover V2A for MCP/Red WG/ROT-E-1

The red protective cover made of V2A stainless steel is designed to protect a red manual call point Series HFM, Series HM or Series HME under harsh environmental conditions.

Features:

- Top-side and lateral rain protection
- Additional mechanical protection
- Cable can be entered from the back or from below

Specifications:

Dimensions W × H × D	130 × 145 × 55 mm
Weight	250 g
RAL colour	flame red, RAL 3000



249634 Protective Cover V2A for MCP/blue WG/BLAU-E-1

The blue protective cover made of V2A stainless steel is designed to protect a blue manual call point Series HM or Series HME under harsh environmental conditions.

Features:

- Top-side and lateral rain protection
- Additional mechanical protection
- Cable can be entered from the back or from below

Specifications:

Dimensions W × H × D	130 × 145 × 55 mm
Weight	250 g
RAL colour	sky blue, RAL 5015



249636 Protective Cover V2A for MCP/yellow WG/GELB-E-1

The yellow protective cover made of V2A stainless steel is designed to protect a yellow manual call point Series HM or Series HME under harsh environmental conditions.

Features:

- Top-side and lateral rain protection
- Additional mechanical protection
- Cable can be entered from the back or from below

Specifications:

Dimensions W × H × D	130 × 145 × 55 mm
Weight	250 g
RAL colour	rape yellow, RAL 1021



249694 Protective Cover V2A for MCP/green WG/GRÜN-E-1

The green protective cover made of V2A stainless steel is designed to protect a green manual call point Series HM or Series HME under harsh environmental conditions.

Features:

- Top-side and lateral rain protection
- Additional mechanical protection
- Cable can be entered from the back or from below

Specifications:

Dimensions W × H × D	130 × 145 × 55 mm
Weight	250 g
RAL colour	leaf green, RAL 6002



249691 Protective Cover V2A for MCP/orange WG/ORANGE-E-1

The orange protective cover made of V2A stainless steel is designed to protect an orange manual call point Series HM or Series HME under harsh environmental conditions.

Features:

- Top-side and lateral rain protection
- Additional mechanical protection
- Cable can be entered from the back or from below

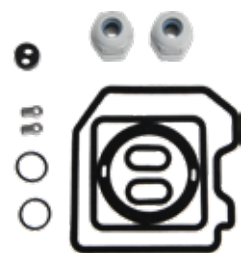
Specifications:

Dimensions W × H × D	130 × 145 × 55 mm
Weight	250 g
RAL colour	deep orange, RAL 2011



249670 Protection Kit IP54 for MCP HME-ZS-IP54

The retrofit kit is needed for increasing the protection class of Manual Call Points Series HME from IP43 to IP54. This can be done in next to no time.



249721 Protection Cover MCP without Alarm E-COVER/OAL/WS

By means of this protection cover for manual call points, which can be mounted very easily, the likelihood of activating a false alarm can be reduced significantly. This is advisable above all for those areas which are more prone to inadvertent alarm activations, for example canteens, schools or sports halls.

It is made of robust polycarbonate and has an attractive design. Optionally the cover can be provided with an additional gasket, and in combination with a manual call point with protection class IP65 it is ideally suited for outdoor areas, for the food industry, and where manual call points are exposed to very harsh environmental conditions.



Specifications:

Dimensions W × H × D	176 × 246 × 53 mm
Weight	650 g
Material	Polycarbonate
Colour	white

Cross-references	Page	Art.No.	Name Type
	316	249723	Sealing for Protection Cover MCP E-COVER/DS

249722 Protection Cover MCP with Alarm E-COVER/MAL/WS

The protection cover corresponds to the cover E-COVER/OAL/WS, but it has a function that activates an alarm in the event of opening of the cover.

Specifications:

Dimensions W × H × D	176 × 246 × 53 mm
Weight	650 g

249723 Sealing for Protection Cover MCP E-COVER/DS

The seal that is to be mounted on the backside of manual call points is designed to increase the protection class under especially humid and harsh environmental conditions. The seal is used in conjunction with an E-COVER protective cover.



Cross-references	Page	Art.No.	Name Type
	316	249722	Protection Cover MCP with Alarm E-COVER/MAL/WS
	315	249721	Protection Cover MCP without Alarm E-COVER/OAL/WS

249135 Flush Mounting Kit HME-UP1

New

The flush mounting kit allows manual call points Series HME to be installed almost flush with the wall. The flush mounting kit can be installed in solid walls or in hollow walls. When the installation of the manual call point has been completed, the call point protrudes from the flush mounting kit 4 mm, which ensures a door aperture angle of up to 135°.

The mounting kit consists of the aluminium flush-mount case, the trim frame made of brushed stainless steel, as well as 2 screws each for mounting the trim frame and the manual call point.

The product cannot be used together with manual call points that can switch mains voltage or have protection class IP65.



Specifications:

Dimensions W × H × D	180 × 150 × 45 mm
Wall cut-out	min. 158 × 137 mm
Weight	290 g
Material	Trim frame: brushed stainless steel Flush-mount case: aluminium

249152 Protection Cover MCP MCP-COVER-1

The robust housing is made of crystal-clear plastic and is used to protect a Manual Call Point Series MCP against splashing water or mechanical damage. Therefore the manual call point can be used, for example, in areas which are cleaned with high-pressure water blasters. The manual call point can be activated after lifting the upper part of the housing.

The housing is screwed to the wall and sealed to the wall by means of the supplied foam gasket. After that, the call point is installed in the housing.

Specifications:

Protection class	IPx5
Dimensions W × H × D	123 × 191 × 80 mm
Weight	425 g

249675 Special Designation HME/Sheet HME-TS-SFT

The sheet contains 10 white door labels with black labelling for a Manual Call Point Series HME. The desired text has to be specified with the exact spelling and can be printed single- or two line.

Note: The label can only be ordered in multiples of 10 pieces.



249687 Key for Manual Call Point SU=10 SCHL-HME/10STK

The key is used for opening the doors of various components of fire alarm technology, such as Manual Call Points Series HFM, Series HM and Series HME, Fire Brigade Control Units FBF58, Fire Brigade Key Safe Adapters AD800-1, as well as Fire Brigade Map Box FWP-3. One packing unit contains 10 pieces.



Cross-references	Page	Art.No.	Name Type
	320	249697	Bunch of Keys with various keys SB-UNIV-1

249686 Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

The standardised replacement glass without marking is needed for Manual Call Points Series HFM, Series HM and Series HME. One packing unit contains 10 pieces.

Specifications:

Dimensions W × H × D	80 × 80 × 0,9 mm
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245079 Flush Mounting Plate FI750/MCP FI750/MCP/FMP/R

The mounting plate is used for flush mounting of a Manual Call Point FI750/MCP on a 60 mm installation box.

245095 Hinged Cover for FI7x0/MCP/PACK10pcs FI720/750/MCP/C-SFT-304

The Plexiglas cover can be optionally installed on a Manual Call Point FI750/MCP or FI720/RF/MCP. In order to activate the manual call point, the cover must be lifted. In this way, unintentional activation is prevented. One packing unit contains 10 pieces.

249377 Reset Key for MCP720/750/PACK10pcs FI720/750/MCP/KEY

The key is used to reset a Manual Call Point FI750/MCP, FI750/RF/MCP or FI720/RF/MCP. One packing unit contains 10 pieces.

Cross-references	Page	Art.No.	Name Type
	320	249697	Bunch of Keys with various keys SB-UNIV-1

249378 Reset Key for MCP700/PACK10pcs. M210

The key is used to reset a Manual Call Point FI700/MCP oder FI700/RF/MCP. One packing unit contains 10 pieces.

Cross-references	Page	Art.No.	Name Type
	320	249697	Bunch of Keys with various keys SB-UNIV-1

245024 Hinged Cover for MCP/WCP PS200

The Plexiglas cover can be optionally installed on a Manual Call Point Series MCP5A or WCP5A. In order to activate the manual call point, the cover must be lifted first. In this way, an unintentional activation is prevented.

245019 Surface Mount Box/MCP5A SR

The red plastic box is used for surface mounting of the Manual Call Points MCP5A-RP07Fx and MCP5A-RP08Fx.

Specifications:

Protection class	IP24
Dimensions W × H × D	87 × 87 × 32 mm
Weight	52 g
Colour	red

245012 Surface Mount Box/MCP5A SR3T

The red plastic box is used for surface mounting of the Manual Call Points MCP5A-RP07Fx and MCP5A-RP08Fx. At the bottom of the box there are 3 auxiliary terminals for easier wiring.

Specifications:

Protection class	IP24
Dimensions W × H × D	87 × 87 × 32 mm
Weight	60 g
Colour	red

245048 Reset Key for MCP5A/PACK10pcs SC070

The key is used to reset a Manual Call Point MCP5A. One packing unit contains 10 pieces.

Cross-references	Page	Art.No.	Name Type
	320	249697	Bunch of Keys with various keys SB-UNIV-1

249213 Glass Pane for MCP Series/10pcs. G21140_

The printed replacement glass pane is inserted for resetting a Manual Call Point MCP5A-RP0xFG or Series WCP5A after activation.

245018 Flexi Element for MCP/WCP PS210

The replacement plastic pane is needed for the Manual Call Point MCP5A-RP0xFF if the original pane has been broken upon activation. Furthermore, the flexi element can be inserted instead of the glass pane in the Manual Call Points MCP5A-RP0xFG and Series WCP5A.

245093 Hinged Cover for MCP/95/CORE/Pack 10pcs. 44251-175

The Plexiglas cover can be optionally installed on a Manual Call Point Series SA5900. In order to activate the manual call point, the cover must be lifted. In this way, unintentional activation is prevented. One packing unit contains 10 pieces.

245096 Reset Key for SA5900/PACK10pcs 44251-176

The key is used to reset a Manual Call Point SA5900. One packing unit contains 10 pieces.

Cross-references	Page	Art.No.	Name Type
	320	249697	Bunch of Keys with various keys SB-UNIV-1

245921 Key Callpoint IP66-C31/EX-DC31 C31/50.18001

This metal key belongs to the front door of the Manual Call Point IP66-C31.



245920 Replacement Glass for EX HM SU=10 Pieces E-G/DC31/10STK

The packing unit contains 10 units of the replacement glass without marking for Ex-protected manual call points IP66-C31.

Specifications:

Dimensions W × H × D

95 × 95 × 0,9 mm

249697 Bunch of Keys with various keys SB-UNIV-1

Bunch of keys with various spare keys such as 44251-176, SCHL-HME, M210, FI720/750/MCP/KEY, SC070, CWS/KEY/R and SCH-BC600-1



9.3 Labelling Products

249248 Detector Label Sheet small/36pcs. BME/MB-BOG-KL/LST

The inscribable and laser-printable adhesive labels are used for marking automatic fire detectors with detector zone and detector number. There are 36 self-adhesive labels on an A4-sized sheet.

Specifications:

Dimensions W × H 60 × 20 mm (single label)
Dimensions (marking area) W × H 57 × 17 mm



249249 Detector Label Sheet small + Carrier/36pcs. BME/MB-KL-KOMP/LST

The inscribable and laser-printable adhesive labels are used for marking automatic fire detectors with detector zone and detector number. In order to make it easier to place the labels next to the detector, the labels can be stuck on the plastic tab MBT2-2.

An A4-sized sheet with 36 self-adhesive labels and 36 plastic tabs are included in the delivery.

Specifications:

Dimensions W × H 60 × 20 mm (single label)
Dimensions (marking area) W × H 57 × 17 mm
Dimensions (MBT2-2) W × H 60 × 53 mm



249245 Detector Label//Sheet/22pcs. BME/ZWD-BOG/LST

The inscribable and laser-printable adhesive labels are used for marking automatic fire detectors in false ceilings or false floors. Thanks to the small dimensions of the labels, they can be affixed to the beam profiles of mineral fibre ceilings. Alternatively, the labels can be stuck on detector bases with sufficient height – for example, System Sensor B501AP. There are 22 self-adhesive labels on an A4-sized sheet.

Specifications:

Dimensions W × H 98 × 22 mm (single label)
Dimensions (marking area) W × H 74 × 16 mm



249246 Detector Label Sheet/12pcs. BME/MB-BOG/LST

The inscribable and laser-printable adhesive labels are used for marking automatic fire detectors with detector zone and detector number. There are 12 self-adhesive labels on an A4-sized sheet.

Specifications:

Dimensions W × H 98 × 44 mm (single label)
Dimensions W × H 94 × 25 mm (marking area)



249247 Detector Label Sheet + Carrier/12pcs. BME/MB-KOMPL/LST

The inscribable and laser-printable adhesive labels are used for marking automatic fire detectors with detector zone and detector number. In order to make it easier to place the labels next to the detector, the labels can be stuck on the plastic tab MBT2-1.

An A4-sized sheet with 12 self-adhesive labels and 12 plastic tabs are included in the delivery.

**Specifications:**

Dimensions W × H	98 × 44 mm (single label)
Dimensions (marking area) W × H	94 × 25 mm
Dimensions (MBT2-1) W × H	98 × 84 mm

10 Conventional Optical and Acoustic Devices



10.1 Sounders

355280 Sounder/WM/DC/red/107 CWSO-RR-S1

The multitone sounder has 32 different tones, all of which have been tested according to EN 54-3. The tone is selected via DIL switches. If the sounder is actuated via 2 control panel outputs, it can also be operated with an alternative tone. In this way, multi-stage alarming with two different tones can be implemented.

The sound level is adjusted by selecting one of two levels by means of a DIL switch. If multiple sounders are used, the tones of all signalling devices on a line are synchronised in order to generate a uniform warning tone. The current consumption of the sounder depends on the tone and the operating voltage.

The sounder is integrated in a red plastic housing and is designed for indoor mounting. The unit comes with a standard base, the cables are entered from the back or – in the case of surface mounted cabling – from the side.



Features:

- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 800 Hz)
- Alternative tone for two-stage alarming possible
- High sound level of more than 100 dB, 2 selectable levels
- Synchronisation of the sounder tones
- Wide operating voltage range
- Optional theft protection by means of screw
- Suitable for surface mounting

Specifications:

Operating voltage	from 9 VDC to 29 VDC
Operating voltage EN 54-3	from 9 VDC to 14 VDC from 18 VDC to 29 VDC
Current consumption typ.	25 mA (at 24 V, DIN tone)
Current consumption max.	35 mA
Protection class	IP21
Ambient temperature	from -25 °C to 70 °C
Sound level max.	102 dB(A)/1 m
Dimensions Ø × D	100 × 77 mm
Weight	190 g
Colour	red
Approval number CPR	2831-CPR-F0254
Approval number VdS	G 215015
Approval number LPCB	567aw/03

355281 Sounder/WM65/DC/red/107 CWSO-RR-W1

The structure of the multitone sounder CWSO-RR-W1 is identical to that of the Sounder CWSO-RR-S1, but the CWSO-RR-W1 comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19 mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder is suitable for use under harsh environmental conditions.



Specifications:

Protection class	IP65
Sound level max.	98 dB(A)/1 m
Dimensions Ø × D	100 × 102 mm
Weight	200 g
Approval number CPR	2831-CPR-F0254
Approval number VdS	G 215015
Approval number LPCB	567aw/03

355282 Sounder/WM/DC/white/107 CWSO-WW-S1

The structure of the multitone sounder CWSO-WW-S1 is identical to that of the Sounder CWSO-RR-S1, but the CWSO-WW-S1 is integrated in a white plastic housing.

Specifications:

Protection class	IP21
Sound level max.	102 dB(A)/1 m
Dimensions Ø × D	100 × 77 mm
Weight	190 g
Approval number CPR	2831-CPR-F0254
Approval number VdS	G 215015
Approval number LPCB	567aw/04



355283 Sounder/WM65/DC/white/107 CWSO-WW-W1

The structure of the multitone sounder CWSO-WW-W1 is identical to that of the Sounder CWSO-RR-S1, but the CWSO-WW-W1 is integrated in a white plastic housing and comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19 mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder is suitable for use under harsh environmental conditions.

Specifications:

Protection class	IP65
Sound level max.	98 dB(A)/1 m
Dimensions Ø × D	100 × 102 mm
Weight	200 g
Approval number CPR	2831-CPR-F0254
Approval number VdS	G 215015
Approval number LPCB	567aw/04



355114 Sounder/FB/DC/white DBS1224B4W-D

The multitone sounder is integrated in a round white plastic housing and is suitable for indoor use. The sounder is designed for installation underneath a detector base. Alternatively, the device can be mounted without a detector base, on the ceiling or on a wall. In this case, an additional front lid DBSLID is needed.

Thanks to a built-in serial diode, the siren can be connected directly to a line-monitored output with negative monitoring voltage.

Features:

- 3 different tones (continuous tone 800 Hz, Slow Whoop tone, DIN 33404 tone)
- Wide operating voltage range
- Low power consumption
- Adjustable sound level
- Suitable for surface mounting

Specifications:

Operating voltage	from 10 VDC to 28 VDC
Operating voltage EN 54-3	from 10 VDC to 14 VDC from 19.5 VDC to 28 VDC
Current consumption typ.	8 mA (at 24 V, active)
Protection class	IP21
Ambient temperature	from -30 °C to 70 °C
Sound level max.	90 dB(A)/1 m



Dimensions Ø × H	117 × 30 mm
Weight	150 g
Colour	white
Approval number CPR	2831-CPR-F1734
Approval number LPCB	166c/40

Cross-references	Page	Art.No.	Name Type
	342	359005	Lid for Detector Base Sounder/red DBSLIDR
	342	359006	Lid for Detector Base Sounder/white DBSLIDW

355660 Sounder/FB/DC/rd SQ/SV/08/R/S/C

The multitone sounder is integrated in a red plastic housing and is designed for indoor wall or ceiling mounting. In the case of ceiling mounting, the sounder can be installed underneath an automatic fire detector and can be actuated via the remote indicator output of the detector.

One of 32 different tone types is selected via DIL switches. If the sounder is actuated via 2 control panel outputs, it can also be operated with an alternative tone. In this way, multi-stage alarming with 2 different tones can be implemented. The sound level can be attenuated by 10 dB(A)/1 m with a DIL switch. If multiple sounders are used, the tones of all signalling devices on a line are synchronised in order to generate a uniform warning tone.



Features:

- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 970 Hz), 6 of which have been tested according to EN 54-3
- Alternative tone for two-stage alarming possible
- High sound level, can be attenuated with DIL switch
- Synchronisation of the sounder tones
- Wide operating voltage range
- Low power consumption, depending on tone type and operating voltage
- Suitable for surface mounting on the wall or ceiling
- Comes with a plastic plate that can be used as cover if no detector base is installed on the sounder

Specifications:

Operating voltage	from 9 VDC to 28 VDC
Operating voltage EN 54-3	from 9 VDC to 15 VDC from 18 VDC to 28 VDC
Current consumption typ.	16 mA (at 24 V, DIN tone)
Current consumption max.	35 mA
Protection class	IP21C
Ambient temperature	from -10 °C to 55 °C
Sound level max.	91 dB(A)/1 m
Dimensions Ø × H	113 × 27 mm
Weight	150 g
Casing material	ABS
Colour	red
Approval number CPR	2831-CPR-F2410
Approval number VdS	G 206022

355661 Sounder/FB/DC/wh SQ/SV/08/GW/S/C

The structure of the multitone sounder SQ/SV/08/GW/S/C is identical to that of the Sounder SQ/SV/08/R/S/C, but the SQ/SV/08/GW/S/C is integrated in a white plastic housing.

Specifications:

Protection class	IP21C
Sound level max.	91 dB(A)/1 m
Dimensions Ø × H	113 × 27 mm
Weight	150 g
Approval number CPR	2831-CPR-F2410
Approval number VdS	G 206022



355700 Sounder/Flush/DC/wh AC/SV/GW/S/8

The multitone sounder is integrated in a white square plastic housing and is designed for indoor flush mounting.

One of 32 different tone types is selected with DIL switches. If the sounder is actuated via 2 control panel outputs, it can also be operated with an alternative tone. In this way, multi-stage alarming with 2 different tones can be implemented. The sound level can be attenuated by 10 dB(A)/1 m with a DIL switch. If multiple sounders are used, the tones of all signalling devices on a line are synchronised in order to generate a uniform warning tone.



Features:

- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 970 Hz), 6 of which have been tested according to EN 54-3
- Alternative tone for two-stage alarming possible
- High sound level, can be attenuated with DIL switch
- Synchronisation of the sounder tones
- Wide operating voltage range
- Low power consumption, depending on tone type and operating voltage
- Designed for flush mounting on 60 mm flush-mount installation box or 68 mm hollow wall box
- Surface mounting with optional housing possible

Specifications:

Operating voltage	from 9 VDC to 28 VDC
Operating voltage EN 54-3	from 9 VDC to 15 VDC from 18 VDC to 28 VDC
Current consumption typ.	16 mA (at 24 V, DIN tone)
Current consumption max.	35 mA
Protection class	IP21C
Ambient temperature	from -10 °C to 55 °C
Sound level max.	95 dB(A)/1 m
Dimensions W × H × D	86 × 86 × 12 mm
Weight	110 g
Colour	white
Approval number CPR	2831-CPR-F2408
Approval number VdS	G 206025

Cross-references	Page	Art.No.	Name Type
	178	249274	Module Box 41mm/700/Knock-out FI700/MBD/KO

355701 Sounder/Flush/DC/rd AC/SV/R/S

The structure of the multitone sounder AC/SV/R/S is identical to that of the Sounder AC/SV/GW/S/8, but the AC/SV/R/S is integrated in a red square plastic housing.

Specifications:

Protection class	IP21C
Sound level max.	95 dB(A)/1 m
Dimensions W × H × D	86 × 86 × 12 mm
Weight	110 g
Approval number CPR	2831-CPR-F2408
Approval number VdS	G 206025



10.2 Combined Sounders-Strobes

355286 **Sounder-Str/WM/DC/re/cl/re/107/WC CWSS-RR-S5**

The combined sounder-strobe has 32 different tones, all of which have been tested according to EN 54-3. The tone is selected via DIL switches. If the sounder is actuated via 2 control panel outputs, it can also be operated with an alternative tone. In this way, multi-stage alarming with 2 different tones can be implemented. The sound level is adjusted by selecting one of two levels by means of a DIL switch.

Thanks to the use of LEDs, the strobe with clear cap and red light has a low power consumption. The strobe has been tested according to EN 54-23 Classes W+C (wall+ceiling) and therefore this single type is suitable for wall mounting as well as for ceiling mounting. The signalling device is used if optical alarming according to EN 54-23 is required. Thanks to the optimised design of the cap, the strobe evenly emits light in all directions, and therefore it can be mounted in any orientation.

If multiple sounder-strobes are used, the tones as well as the flash periods of all signalling devices on a line are synchronised in order to generate a uniform warning tone and light pulse. The current consumption of the combi signalling device depends on the tone and the operating voltage.

The sounder-strobe is integrated in a red plastic housing and is designed for indoor mounting. The unit comes with a standard base, the cables are entered from the back or – in the case of surface mounted cabling – from the side.



Features:

- Red very high-performance LEDs
- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 800 Hz)
- Alternative tone for two-stage alarming possible
- High sound level of more than 100 dB, 2 selectable levels
- Synchronisation of the sounder tones
- Wide operating voltage range
- Optional theft protection by means of screw
- Suitable for surface mounting

Specifications:

Operating voltage	from 12 VDC to 29 VDC
Operating voltage EN 54-3	from 12 VDC to 14 VDC from 18 VDC to 29 VDC
Operating voltage EN 54-23	from 12 VDC to 29 VDC
Current consumption typ.	60 mA (at 24 V, DIN tone)
Current consumption max.	73.5 mA (at 24 V, DIN tone)
Protection class	IP21
Ambient temperature	from -25 °C to 70 °C
Sound level max.	102 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	W-2.4-6.0 – wall mounting
Mounting height max.	2.4 m
Illuminated area	6 × 6 m
Category EN 54-23	C-3-8.9 – ceiling mounting
Mounting height max.	3 m
Illuminated area	Ø 8.9 m, equals 6.3 × 6.3 m
Category EN 54-23	C-6-8.2 – ceiling mounting
Mounting height max.	6 m
Illuminated area	Ø 8.2 m, equals 5.8 × 5.8 m
Dimensions Ø × D	100 × 98 mm
Weight	250 g
Colour	red
Approval number CPR	2831-CPR-F0262
Approval number VdS	G 215013

Approval number LPCB

166p/03

355287 Sounder-Str/WM65/DC/re/cl/re/107/WC CWSS-RR-W5

The structure of the combined Sounder-Strobe CWSS-RR-W5 is identical to that of the Sounder-Strobe CWSS-RR-S5, but the CWSS-RR-W5 comes with a deep base. On the two flattened sides of the base, 3 openings (\varnothing 19 mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder-strobe is suitable for use under harsh environmental conditions.



Features:

- Red very high-performance LEDs

Specifications:

Protection class	IP65
Sound level max.	98 dB(A)/1 m
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	W-2.4-6.0 – wall mounting
Mounting height max.	2.4 m
Illuminated area	6 × 6 m
Category EN 54-23	C-3-8.9 – ceiling mounting
Mounting height max.	3 m
Illuminated area	\varnothing 8.9 m, equals 6.3 × 6.3 m
Category EN 54-23	C-6-8.2 – ceiling mounting
Mounting height max.	6 m
Illuminated area	\varnothing 8.2 m, equals 5.8 × 5.8 m
Dimensions $\varnothing \times D$	100 × 122 mm
Weight	260 g
Approval number CPR	2831-CPR-F0262
Approval number VdS	VdS G215013
Approval number LPCB	LPCB 166p/03

355284 Sounder-Str/WM/DC/re/cl/re/107/O CWSS-RR-S3

The combined sounder-strobe has 32 different tones, all of which have been tested according to EN 54-3. The tone is selected with DIL switches.

If the sounder is actuated via 2 control panel outputs, it can also be operated with an alternative tone. In this way, multi-stage alarming with 2 different tones can be implemented. The sound level is adjusted by selecting one of two levels by means of a DIL switch. Thanks to the use of light emitting diodes, the strobe with clear cap and red light has a low current consumption. The strobe has been tested according to EN 54-23 Class O („open class“). Due to the lower illuminated room volume, as compared to classes W+C, the signalling device is not suitable for two sense evacuation.

It is used for applications where additional optical alarming is desired. Thanks to the optimised design of the cap, the strobe evenly emits light in all directions, and therefore it can be mounted in any orientation. If multiple sounder-strobes are used, the tones as well as the flash periods of all signalling devices on a line are synchronised in order to generate a uniform warning tone and light pulse. The current consumption of the combi signalling device depends on the tone and the operating voltage.

The sounder-strobe is integrated in a red plastic housing and is designed for indoor wall or ceiling mounting. The unit comes with a standard base, the cables are entered from the back or – in the case of surface mounted cabling – from the side.



Features:

- Red high-performance LEDs
- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 800 Hz)
- Alternative tone for two-stage alarming possible
- High sound level of more than 100 dB, 2 selectable levels

- Synchronisation of the sounder tones
- Wide operating voltage range
- Optional theft protection by means of screw
- Suitable for surface mounting

Specifications:

Operating voltage	from 12 VDC to 29 VDC
Operating voltage EN 54-3	from 12 VDC to 14 VDC from 18 VDC to 29 VDC
Operating voltage EN 54-23	from 24 VDC to 29 VDC
Current consumption typ.	28 mA (at 24 V, DIN tone)
Current consumption max.	40 mA (at 24 V, DIN tone)
Protection class	IP21
Ambient temperature	from -25 °C to 70 °C
Sound level max.	102 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	O – wall mounting
Mounting height max.	2.4 m
Category EN 54-23	O – ceiling mounting
Mounting height max.	3 m
Dimensions Ø × D	100 × 98 mm
Weight	250 g
Colour	red
Approval number CPR	2831-CPR-F0259
Approval number VdS	G 215014
Approval number LPCB	166p/07

355285 Sounder-Str/WM65/DC/re/cl/re/107/O CWSS-RR-W3

The structure of the combined Sounder-Strobe CWSS-RR-W3 is identical to that of the Sounder-Strobe CWSS-RR-S3, but the CWSS-RR-W3 comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19 mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder-strobe is suitable for use under harsh environmental conditions.



Features:

- Red high-performance LEDs

Specifications:

Protection class	IP65
Sound level max.	98 dB(A)/1 m
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	O – wall mounting
Mounting height max.	2.4 m
Category EN 54-23	O – ceiling mounting
Mounting height max.	3 m
Dimensions Ø × D	100 × 122 mm
Weight	260 g
Approval number CPR	2831-CPR-F0259
Approval number VdS	VdS G215014
Approval number LPCB	LPCB 166p/07

355288 Sounder-Strobe/WM/DC/re/re/107/N CWSS-RB-S7

The combined sounder-strobe has 32 different tones, all of which have been tested according to EN 54-3. The tone is selected via DIL switches. If the sounder is actuated via 2 control panel outputs, it can also be operated with an alternative tone. In this way, multi-stage alarming with 2 different tones can be implemented. The sound level is adjusted by selecting one of two levels by means of a DIL switch.

Thanks to the use of LEDs, the strobe with red cap has a low power consumption. Since the strobe does not comply with EN 54-23, the signalling device has not been approved for two sense evacuation. Therefore it is used for applications where additional optical alarming is desired.

If multiple sounder-strobes are used, the tones as well as the flash periods of all signalling devices on a line are synchronised in order to generate a uniform warning tone and light pulse. The current consumption of the combi signalling device depends on the tone and the operating voltage.

The sounder-strobe is integrated in a red plastic housing and is designed for indoor wall or ceiling mounting. The unit comes with a standard base, the cables are entered from the back or – in the case of surface mounted cabling – from the side.



Features:

- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 800 Hz)
- Alternative tone for two-stage alarming possible
- High sound level of more than 100 dB, 2 selectable levels
- Synchronisation of the sounder tones
- Wide operating voltage range
- Optional theft protection by means of screw
- Suitable for surface mounting

Specifications:

Operating voltage	from 12 VDC to 29 VDC
Operating voltage EN 54-3	from 12 VDC to 14 VDC from 18 VDC to 29 VDC
Current consumption typ.	28 mA (at 24 V, DIN tone)
Protection class	IP21
Ambient temperature	from -25 °C to 70 °C
Sound level max.	102 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	red
Light colour	red
Dimensions Ø × D	100 × 98 mm
Weight	250 g
Colour	red
Approval number CPR	2831-CPR-F0256
Approval number VdS	G 215017
Approval number LPCB	166h/09

355289 Sounder-Str/WM65/DC/re/re/107/N CWSS-RB-W7

The structure of the combined Sounder-Strobe CWSS-RB-W7 is identical to that of the Sounder-Strobe CWSS-RB-S7, but the CWSS-RB-W7 comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19 mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder-strobe is suitable for use under harsh environmental conditions.



Specifications:

Protection class	IP65
Sound level max.	98 dB(A)/1 m
Colour of lens/cap	red
Light colour	red
Dimensions Ø × D	100 × 122 mm

Weight 260 g

355294 Sounder-Str/WM/DC/wh/cl/re/107/WC CWSS-WR-S5

The structure of the combined Sounder-Strobe CWSS-WR-S5 is identical to that of the Sounder-Strobe CWSS-RR-S5, but the CWSS-WR-S5 is integrated in a white plastic housing.

Features:

- Red very high-performance LEDs

Specifications:

Protection class	IP21
Sound level max.	102 dB(A)/1 m
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	W-2.4-6.0 – wall mounting
Mounting height max.	2.4 m
Illuminated area	6 × 6 m
Category EN 54-23	C-3-8.9 – ceiling mounting
Mounting height max.	3 m
Illuminated area	Ø 8.9 m, equals 6.3 × 6.3 m
Category EN 54-23	C-6-8.2 – ceiling mounting
Mounting height max.	6 m
Illuminated area	Ø 8.2 m, equals 5.8 × 5.8 m
Dimensions Ø × D	100 × 98 mm
Weight	250 g
Approval number CPR	2831-CPR-F0262
Approval number VdS	G 215013
Approval number LPCB	166p/04



355295 Sounder-Str/WM65/DC/wh/cl/re/107/WC CWSS-WR-W5

The structure of the combined Sounder-Strobe CWSS-WR-W5 is identical to that of the Sounder-Strobe CWSS-RR-S5, but the CWSS-WR-W5 is integrated in a white plastic housing and comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19 mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder-strobe is suitable for use under harsh environmental conditions.

Features:

- Red very high-performance LEDs

Specifications:

Protection class	IP65
Sound level max.	98 dB(A)/1 m
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	W-2.4-6.0 – wall mounting
Mounting height max.	2.4 m
Illuminated area	6 × 6 m
Category EN 54-23	C-3-8.9 – ceiling mounting
Mounting height max.	3 m
Illuminated area	Ø 8.9 m, equals 6.3 × 6.3 m
Category EN 54-23	C-6-8.2 – ceiling mounting
Mounting height max.	6 m
Illuminated area	Ø 8.2 m, equals 5.8 × 5.8 m
Dimensions Ø × D	100 × 122 mm
Weight	260 g



Approval number CPR
Approval number VdS
Approval number LPCB

2831-CPR-F0262
VdS G215013
LPCB 166p/04

355292 Sounder-Str/WM/DC/wh/cl/re/107/O CWSS-WR-S3

The structure of the combined Sounder-Strobe CWSS-WR-S3 is identical to that of the Sounder-Strobe CWSS-RR-S3, but the CWSS-WR-S3 is integrated in a white plastic housing.

Features:

- Red high-performance LEDs

Specifications:

Protection class	IP21
Sound level max.	102 dB(A)/1 m
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	O – wall mounting
Mounting height max.	2.4 m
Category EN 54-23	O – ceiling mounting
Mounting height max.	3 m
Dimensions Ø × D	100 × 98 mm
Weight	250 g
Approval number CPR	2831-CPR-F0259
Approval number VdS	G 215014
Approval number LPCB	166p/06



355293 Sounder-Str/WM65/DC/wh/cl/re/107/O CWSS-WR-W3

The structure of the combined Sounder-Strobe CWSS-WR-W3 is identical to that of the Sounder-Strobe CWSS-RR-S3, but the CWSS-WR-W3 is integrated in a white plastic housing and comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19 mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder-strobe is suitable for use under harsh environmental conditions.

Features:

- Red high-performance LEDs

Specifications:

Protection class	IP65
Sound level max.	98 dB(A)/1 m
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	O – wall mounting
Mounting height max.	2.4 m
Category EN 54-23	O – ceiling mounting
Mounting height max.	3 m
Dimensions Ø × D	100 × 122 mm
Weight	260 g
Approval number CPR	2831-CPR-F0259
Approval number VdS	G 215014
Approval number LPCB	166p/06



355301 **Sounder-Str/WM/DC/wh/cl/wh/107/WC CWSS-WW-S5**

The combined sounder-strobe has 32 different tones, all of which have been tested according to EN 54-3. The tone is selected with DIL switches.

If the sounder is actuated via 2 control panel outputs, it can also be operated with an alternative tone. In this way, multi-stage alarming with 2 different tones can be implemented. The sound level is adjusted by selecting one of two levels by means of a DIL switch. Thanks to the use of light emitting diodes, the strobe with clear cap and white light has a low current consumption. The strobe has been tested according to EN 54-23 Classes W+C (wall+ceiling) and therefore this single type is suitable for wall mounting as well as for ceiling mounting. The signalling device is used if optical alarming according to EN 54-23 is required. Thanks to the optimised design of the cap, the strobe evenly emits light in all directions, and therefore it can be mounted in any orientation.

If multiple sounder-strobes are used, the tones as well as the flash periods of all signalling devices on a line are synchronised in order to generate a uniform warning tone and light pulse. The current consumption of the combi signalling device depends on the tone and the operating voltage. The sounder-strobe is integrated in a white plastic housing and is designed for indoor mounting. The unit comes with a standard base, the cables are entered from the back or – in the case of surface mounted cabling – from the side.



Features:

- White very high-performance LEDs
- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 800 Hz)
- Alternative tone for two-stage alarming possible
- High sound level of more than 100 dB, 2 selectable levels
- Synchronisation of the sounder tones
- Wide operating voltage range
- Optional theft protection by means of screw
- Suitable for surface mounting

Specifications:

Operating voltage	from 12 VDC to 29 VDC
Operating voltage EN 54-3	from 12 VDC to 14 VDC from 18 VDC to 29 VDC
Operating voltage EN 54-23	from 12 VDC to 29 VDC
Current consumption typ.	60 mA (at 24 V, DIN tone)
Current consumption max.	73.5 mA (at 24 V, DIN tone)
Protection class	IP21
Ambient temperature	from -25 °C to 70 °C
Sound level max.	102 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	W-2.4-8.9 – wall mounting
Mounting height max.	2.4 m
Illuminated area	8.9 × 8.9 m
Category EN 54-23	C-3-10 – ceiling mounting
Mounting height max.	3 m
Illuminated area	Ø 10 m, equals 7.1 × 7.1 m
Category EN 54-23	C-6-10 – ceiling mounting
Mounting height max.	6 m
Illuminated area	Ø 10 m, equals 7.1 × 7.1 m
Dimensions Ø × D	100 × 98 mm
Weight	250 g
Colour	white
Approval number CPR	2831-CPR-F0261
Approval number VdS	G 215013
Approval number LPCB	166p/02

10.3 Strobes

356080 Strobe/WM/DC/red/clear/red/WC CWST-RR-S5

Thanks to the use of light emitting diodes, the strobe with clear cap and red light has a low current consumption. The strobe has been tested according to EN 54-23 Classes W+C (wall+ceiling) and therefore this single type is suitable for wall mounting as well as for ceiling mounting. The signalling device is used if optical alarming according to EN 54-23 is required. Thanks to the optimised design of the cap, the strobe evenly emits light in all directions, and therefore it can be mounted in any orientation.

If multiple strobes are used, the flash periods of all signalling devices on a line are synchronised in order to generate a uniform light pulse. The current consumption of the signalling device depends on the operating voltage.

The strobe is integrated in a red plastic housing and is designed for indoor mounting. The unit comes with a standard base, the cables are entered from the back or – in the case of surface mounted cabling – from the side.



Features:

- Very high-performance LEDs
- Synchronisation of the flash pulses
- Flash frequency can be attenuated with DIL switch from 1 Hz to 0,5 Hz
- Wide operating voltage range
- Optional theft protection by means of screw

Specifications:

Operating voltage EN 54-23	from 12 VDC to 29 VDC
Current consumption typ.	25 mA (at 24 V)
Current consumption max.	37 mA (at 24 V)
Protection class	IP21
Ambient temperature	from -25 °C to 70 °C
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	W-2.4-6.2 – wall mounting
Mounting height max.	2.4 m
Illuminated area	6.2 × 6.2 m
Category EN 54-23	C-3-9.4 – ceiling mounting
Mounting height max.	3 m
Illuminated area	Ø 9.4 m, equals 6.6 × 6.6 m
Category EN 54-23	C-6-8.2 – ceiling mounting
Mounting height max.	6 m
Illuminated area	Ø 8.2 m, equals 5.8 × 5.8 m
Dimensions Ø × D	100 × 72 mm
Weight	160 g
Colour	red
Approval number CPR	2831-CPR-F0258
Approval number VdS	G 215016
Approval number LPCB	166n/03

356081 Strobe/WM65/DC/red/clear/red/WC CWST-RR-W5

The structure of the Strobe CWST-RR-W5 is identical to that of the Strobe CWST-RR-S5, but the CWST-RR-W5 comes with a deep base. On the two flattened sides of the base, 3 openings (\varnothing 19 mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the strobe is suitable for use under harsh environmental conditions.



Specifications:

Protection class	IP65
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	W-2.4-6.2 – wall mounting
Mounting height max.	2.4 m
Illuminated area	6.2 × 6.2 m
Category EN 54-23	C-3-9.4 – ceiling mounting
Mounting height max.	3 m
Illuminated area	\varnothing 9.4 m, equals 6.6 × 6.6 m
Category EN 54-23	C-6-8.2 – ceiling mounting
Mounting height max.	6 m
Illuminated area	\varnothing 8.2 m, equals 5.8 × 5.8 m
Dimensions \varnothing × D	100 × 97 mm
Weight	170 g
Approval number CPR	2831-CPR-F0258
Approval number VdS	VdS G215016
Approval number LPCB	LPCB 166n/03

356082 Strobe/WM/DC/white/clear/red/WC CWST-WR-S5

The structure of the Strobe CWST-WR-S5 is identical to that of the Strobe CWST-RR-S5, but the CWST-WR-S5 is integrated in a white plastic housing.



Specifications:

Protection class	IP21
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	W-2.4-6.2 – wall mounting
Mounting height max.	2.4 m
Illuminated area	6.2 × 6.2 m
Category EN 54-23	C-3-9.4 – ceiling mounting
Mounting height max.	3 m
Illuminated area	\varnothing 9.4 m, equals 6.6 × 6.6 m
Category EN 54-23	C-6-8.2 – ceiling mounting
Mounting height max.	6 m
Illuminated area	\varnothing 8.2 m, equals 5.8 × 5.8 m
Dimensions \varnothing × D	100 × 72 mm
Weight	160 g
Approval number CPR	2831-CPR-F0258
Approval number VdS	G 215016
Approval number LPCB	166n/04

356083 Strobe/WM65/DC/white/clear/red/WC CWST-WR-W5

The structure of the Strobe CWST-WR-W5 is identical to that of the Strobe CWST-RR-S5, but the CWST-WR-W5 is integrated in a white plastic housing and comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19 mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the strobe is suitable for use under harsh environmental conditions.



Specifications:

Protection class	IP65
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	W-2.4-6.2 – wall mounting
Mounting height max.	2.4 m
Illuminated area	6.2 × 6.2 m
Category EN 54-23	C-3-9.4 – ceiling mounting
Mounting height max.	3 m
Illuminated area	Ø 9.4 m, equals 6.6 × 6.6 m
Category EN 54-23	C-6-8.2 – ceiling mounting
Mounting height max.	6 m
Illuminated area	Ø 8.2 m, equals 5.8 × 5.8 m
Dimensions Ø × D	100 × 97 mm
Weight	170 g
Approval number CPR	2831-CPR-F0258
Approval number VdS	G 215016
Approval number LPCB	166n/04

356086 Strobe/WM/DC/red/clear/white/WC CWST-RW-S5

Thanks to the use of light emitting diodes, the strobe with clear cap and white light has a low current consumption. The strobe has been tested according to EN 54-23 Classes W+C (wall+ceiling) and therefore this single type is suitable for wall mounting as well as for ceiling mounting. The signalling device is used if optical alarming according to EN 54-23 is required. Thanks to the optimised design of the cap, the strobe evenly emits light in all directions, and therefore it can be mounted in any orientation.



If multiple strobes are used, the flash periods of all signalling devices on a line are synchronised in order to generate a uniform light pulse. The current consumption of the signalling device depends on the operating voltage.

The strobe is integrated in a red plastic housing and is designed for indoor mounting. The unit comes with a standard base, the cables are entered from the back or – in the case of surface mounted cabling – from the side.

Features:

- Very high-performance LEDs
- Synchronisation of the flash pulses
- Flash frequency can be attenuated with DIL switch from 1 Hz to 0,5 Hz
- Wide operating voltage range
- Optional theft protection by means of screw

Specifications:

Operating voltage EN 54-23	from 12 VDC to 29 VDC
Current consumption typ.	25 mA (at 24 V)
Current consumption max.	37 mA (at 24 V)
Protection class	IP21
Ambient temperature	from -25 °C to 70 °C
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	white

Category EN 54-23	W-2.4-9.0 – wall mounting
Mounting height max.	2.4 m
Illuminated area	9 × 9 m
Category EN 54-23	C-3-9.5 – ceiling mounting
Mounting height max.	3 m
Illuminated area	Ø 9.5 m, equals 6.7 × 6.7 m
Category EN 54-23	C-6-9.5 – ceiling mounting
Mounting height max.	6 m
Illuminated area	Ø 9.5 m, equals 6.7 × 6.7 m
Category EN 54-23	C-9-9.5 – ceiling mounting
Mounting height max.	9 m
Illuminated area	Ø 9.5 m, equals 6.7 × 6.7 m
Dimensions Ø × D	100 × 72 mm
Weight	160 g
Colour	red
Approval number CPR	2831-CPR-F0257
Approval number VdS	G 215016
Approval number LPCB	166n/05

356087 Strobe/WM65/DC/red/clear/white/WC CWST-RW-W5

The structure of the Strobe CWST-RW-W5 is identical to that of the Strobe CWST-RW-S5, but the CWST-RW-W5 comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19 mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the strobe is suitable for use under harsh environmental conditions.



Specifications:

Protection class	IP65
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	W-2.4-9.0 – wall mounting
Mounting height max.	2.4 m
Illuminated area	9 × 9 m
Category EN 54-23	C-3-9.5 – ceiling mounting
Mounting height max.	3 m
Illuminated area	Ø 9.5 m, equals 6.7 × 6.7 m
Category EN 54-23	C-6-9.5 – ceiling mounting
Mounting height max.	6 m
Illuminated area	Ø 9.5 m, equals 6.7 × 6.7 m
Category EN 54-23	C-9-9.5 – ceiling mounting
Mounting height max.	9 m
Illuminated area	Ø 9.5 m, equals 6.7 × 6.7 m
Dimensions Ø × D	100 × 97 mm
Weight	170 g
Approval number CPR	2831-CPR-F0257
Approval number VdS	VdS G215016
Approval number LPCB	LPCB 166n/05

356084 Strobe/WM/DC/white/clear/white/WC CWST-WW-S5

The structure of the Strobe CWST-WW-S5 is identical to that of the Strobe CWST-RW-S5, but the CWST-WW-S5 is integrated in a white plastic housing.

Specifications:

Protection class	IP21
Colour of lens/cap	clear
Light colour	white



Category EN 54-23	W-2.4-9.0 – wall mounting
Mounting height max.	2.4 m
Illuminated area	9 × 9 m
Category EN 54-23	C-3-9.5 – ceiling mounting
Mounting height max.	3 m
Illuminated area	Ø 9.5 m, equals 6.7 × 6.7 m
Category EN 54-23	C-6-9.5 – ceiling mounting
Mounting height max.	6 m
Illuminated area	Ø 9.5 m, equals 6.7 × 6.7 m
Category EN 54-23	C-9-9.5 – ceiling mounting
Mounting height max.	9 m
Illuminated area	Ø 9.5 m, equals 6.7 × 6.7 m
Dimensions Ø × D	100 × 72 mm
Weight	160 g
Approval number CPR	2831-CPR-F0257
Approval number VdS	G 215016
Approval number LPCB	166n/02

356085 Strobe/WM65/DC/white/cl/white/WC CWST-WW-W5

The structure of the Strobe CWST-WW-W5 is identical to that of the Strobe CWST-RW-S5, but the CWST-WW-W5 is integrated into a white plastic housing and comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19 mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the strobe is suitable for use under harsh environmental conditions.



Specifications:

Protection class	IP65
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	W-2.4-9.0 – wall mounting
Mounting height max.	2.4 m
Illuminated area	9 × 9 m
Category EN 54-23	C-3-9.5 – ceiling mounting
Mounting height max.	3 m
Illuminated area	Ø 9.5 m, equals 6.7 × 6.7 m
Category EN 54-23	C-6-9.5 – ceiling mounting
Mounting height max.	6 m
Illuminated area	Ø 9.5 m, equals 6.7 × 6.7 m
Category EN 54-23	C-9-9.5 – ceiling mounting
Mounting height max.	9 m
Illuminated area	Ø 9.5 m, equals 6.7 × 6.7 m
Dimensions Ø × D	100 × 97 mm
Weight	170 g
Approval number CPR	2831-CPR-F0257
Approval number VdS	G 215016
Approval number LPCB	166n/02

356682 Strobe/WM/DC/wh/am/N SOLEX10A

The strobe has an orange cap and is suitable for indoor and outdoor mounting. The strobe comes with a base. A deep base version is available by means of which the protection class can be increased to IP65.



Features:

- Very high flash energy
- Wide operating voltage range
- Suitable for surface mounting

- Easy to mount due to bayonet lock
- Locking base

Specifications:

Operating voltage	from 9 VDC to 60 VDC
Current consumption max.	88 mA (at 24 V)
Protection class	IP54 (with standard base)
Ambient temperature	from -25 °C to 70 °C
Strobe frequency	1 Hz
Colour of lens/cap	orange
Luminous intensity	10 Cd
Dimensions Ø × H	93 × 65 mm
Weight	150 g
Approval number VdS	G 207018

<u>Cross-references</u>	<u>Page</u>	<u>Art.No.</u>	<u>Name Type</u>
	137	355675	Base for Sounder/Strobe/IP65/wh SW-IP65-SQ/RO

10.4 Accessories

359005 Lid for Detector Base Sounder/red DBSLIDR

The red cover plate DBSLIDR is needed for mounting a base sounder Series DBS if no detector base is used.

Specifications:

Dimensions Ø × H	103 × 2 mm
Colour	red



359006 Lid for Detector Base Sounder/white DBSLIDW

The white cover plate DBSLIDW is needed for mounting a base sounder Series DBS if no detector base is used.

Specifications:

Dimensions Ø × H	103 × 2 mm
Colour	white



355675 Base for Sounder/Strobe/IP65/wh SW-IP65-SQ/RO

The base is used for mounting of sounders Series Roshni, of sounder-strobes Series ROLP-SOLISTA-BEACON, of strobes Series Solex or of strobes Series Solista-LX. The design of the base allows cable entry from the back or from the side.

Specifications:

Protection class	IP65
Ambient temperature	from -25 °C to 70 °C
Dimensions Ø × H	93 × 48 mm
Weight	50 g
Colour	white



11 Devices for Hazardous Areas



11.1 Conventional Detectors

241091 Optical Smoke Detector/Conventional IS SOC-E-IS

The optical smoke detector for hazardous areas operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for applications using conventional technology and is suitable for indoor mounting. The detector must always be connected via a safety barrier that has been approved for this detector. Particular attention must be paid to the compliance with country-specific regulations.



Features:

- Insect screen

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	35 μ A
Ex classification	Ex II 1 G Ex ia IIC T5 Ga
Ignition protection	intrinsically safe
Relative humidity (no condensation) max.	95 %
Protection class	IP42
Ambient temperature	from -10 °C to 50 °C
Dimensions $\varnothing \times H$	100 \times 48 mm
Weight	106 g
Colour	cream
Approval number CPR	2831-CPR-F4344
Approval number LPCB	164g/09
Approval number ATEX	Basefa19ATEX0143X

Cross-references	Page	Art.No.	Name Type
	344	246090	Detector Base/Conv/Ex YBN-R/4IS
	361	228003	Safety Barrier ES58-2

246090 Detector Base/Conv/Ex YBN-R/4IS

The detector base for hazardous areas is designed to accommodate an intrinsically safe smoke detector SOC and is suitable for indoor surface mounting.



Features:

- No electronics contained
- Screw terminals for secure connection of multiple wires

Specifications:

Relative humidity (no condensation)	from 10 % to 95 %
Ambient temperature	from -10 °C to 55 °C (no icing)
Dimensions $\varnothing \times H$	100 \times 15 mm
Weight	45 g
Colour	cream

241062 Optical Smoke Detector/Orbis/IS OP-52027

The optical smoke detector for hazardous areas operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for applications using conventional technology and is suitable for indoor mounting. The detector must always be connected via a safety barrier that has been approved for this detector. Particular attention must be paid to the compliance with country-specific regulations.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – an effective measure for preventing false alarms. If the contamination of the sensing system is too heavy or if it is defective, the multicoloured status LED of the detector will blink in yellow for approx. 4 minutes after enablement of the detector line.



Features:

- Insect screen
- Sealed electronics prevent false alarms caused by the environment
- Mechanical theft protection

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	85 μ A
Ex classification	Ex II 1 G Ex ia IIC
Ignition protection	intrinsically safe
Relative humidity (no condensation) max.	98 %
Protection class	IP23
Ambient temperature	from -40 °C to 40 °C (Class T5, no icing)
Ambient temperature	from -40 °C to 60 °C (Class T4, no icing)
Dimensions $\varnothing \times$ H	100 \times 42 mm
Weight	75 g
Colour	white
Approval number CPR	2531-CPR-CSP11158
Approval number VdS	G 207027
Approval number LPCB	010s/02
Approval number ATEX	Baseefa 06 ATEX 0007X

Cross-references	Page	Art.No.	Name Type
	361	228003	Safety Barrier ES58-2
	349	246043	Detector Base/Orbis/IS MB-50018

241063 Optical-Thermal Detector/Orbis/IS OH-53027

The optical-thermal detector for hazardous areas operates both with an optical sensing chamber based on the principle of scattered light and with a temperature sensor based on the heat detection principle. The detector is designed for applications using conventional technology and is suitable for indoor mounting. The detector must always be connected via a safety barrier that has been approved for this detector. Particular attention must be paid to the compliance with country-specific regulations.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – an effective measure for preventing false alarms. If the contamination of the optical sensing system is too heavy or if it is defective, the multicoloured status LED of the detector will blink in yellow for approx. 4 minutes after enablement of the detector line.



Features:

- Insect screen
- Sealed electronics prevent false alarms caused by the environment
- Mechanical theft protection

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	85 μ A
Ex classification	Ex II 1 G Ex ia IIC
Ignition protection	intrinsically safe
Relative humidity (no condensation) max.	98 %
Protection class	IP23
Ambient temperature	from -40 °C to 45 °C (Class T5, no icing)
Ambient temperature	from -40 °C to 60 °C (Class T4, no icing)
Dimensions $\varnothing \times H$	100 \times 50 mm
Weight	80 g
Colour	white
Approval number CPR	2531-CPR-CSP11157
Approval number VdS	G 207028
Approval number LPCB	010t/02
Approval number ATEX	Baseefa 06 ATEX 0007X

Cross-references	Page	Art.No.	Name Type
	361	228003	Safety Barrier ES58-2
	349	246043	Detector Base/Orbis/IS MB-50018

242037 Thermal RoR Detector/Orbis/A1R/IS HT-51145

The thermal rate-of-rise detector for hazardous areas reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 57 °C according to EN 54-5, Class A1R. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5 m. The detector must always be connected via a safety barrier that has been approved for this detector. Particular attention must be paid to the compliance with country-specific regulations.

If the detector experiences a fault, the multicoloured status LED of the detector will blink in yellow for approx. 4 minutes after enablement of the detector line.


Features:

- Sealed electronics prevent false alarms caused by the environment
- Mechanical theft protection

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	85 μ A
Ex classification	Ex II 1 G Ex ia IIC
Ignition protection	intrinsically safe
Relative humidity (no condensation) max.	98 %
Protection class	IP23
Ambient temperature	from -40 °C to 45 °C (Class T5, no icing)
Ambient temperature	from -40 °C to 60 °C (Class T4, no icing)
Application temperature max.	50 °C
Alarm temperature	57 °C
Dimensions $\varnothing \times H$	100 \times 42 mm
Weight	70 g
Colour	white
Approval number CPR	2531-CPR-CSP11149
Approval number VdS	G 207020
Approval number LPCB	010r/08
Approval number ATEX	Baseefa06ATEX0007X

Cross-references	Page	Art.No.	Name Type
	361	228003	Safety Barrier ES58-2
	349	246043	Detector Base/Orbis/IS MB-50018

242038 Thermal Max Detector/Orbis/A1S/IS HT-51157

The maximum heat detector for hazardous areas reacts to a maximum temperature of 57 °C according to EN 54-5, Class A1S. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5 m. The detector must always be connected via a safety barrier that has been approved for this detector. Particular attention must be paid to the compliance with country-specific regulations.



If the detector experiences a fault, the multicoloured status LED of the detector will blink in yellow for approx. 4 minutes after enablement of the detector line.

Features:

- Sealed electronics prevent false alarms caused by the environment
- Mechanical theft protection

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	85 µA
Ex classification	Ex II 1 G Ex ia IIC
Ignition protection	intrinsically safe
Relative humidity (no condensation) max.	98 %
Protection class	IP23
Ambient temperature	from -40 °C to 45 °C (Class T5, no icing)
Ambient temperature	from -40 °C to 60 °C (Class T4, no icing)
Application temperature max.	50 °C
Alarm temperature	57 °C
Dimensions Ø × H	100 × 42 mm
Weight	70 g
Colour	white
Approval number CPR	2531-CPR-CSP11155
Approval number LPCB	010r/14
Approval number ATEX	Baseefa06ATEX0007X

Cross-references	Page	Art.No.	Name Type
	361	228003	Safety Barrier ES58-2
	349	246043	Detector Base/Orbis/IS MB-50018

242061 Thermal Max Detector/Orbis/A2S/IS HT-51147

The Thermal Max Detector HT-51147 for hazardous areas is identical with the maximum heat detector HT-51157, except the HT-51147 reacts to a maximum temperature of 61 °C according to EN 54-5, Class A2S. The detector is suitable for indoor mounting up to a maximum room height of 6 m.



Specifications:

Application temperature max.	50 °C
Alarm temperature	61 °C
Dimensions Ø × H	100 × 42 mm
Approval number CPR	2531-CPR-CSP11150
Approval number LPCB	010r/09

242062 Thermal RoR Detector/Orbis/BR/IS HT-51149

The Thermal RoR Detector HT-51149 for hazardous areas is identical with the RoR detector HT-51145, except the HT-51149 reacts to a maximum temperature of 75 °C according to EN 54-5, Class BR. The detector is suitable for indoor mounting up to a maximum room height of 6 m.

Specifications:

Application temperature max.	65 °C
Alarm temperature	75 °C
Dimensions Ø × H	100 × 42 mm
Approval number CPR	2531-CPR-CSP11151
Approval number LPCB	010r/10



242063 Thermal Max Detector/Orbis/BS/IS HT-51151

The Thermal Max Detector HT-51151 for hazardous areas is identical with the maximum heat detector HT-51157, except the HT-51151 reacts to a maximum temperature of 75 °C according to EN 54-5, Class BS. The detector is suitable for indoor mounting up to a maximum room height of 6 m.

Specifications:

Application temperature max.	65 °C
Alarm temperature	75 °C
Dimensions Ø × H	100 × 42 mm
Approval number CPR	2531-CPR-CSP11152
Approval number LPCB	010r/11



242064 Thermal RoR Detector/Orbis/CR/IS HT-51153

The Thermal RoR Detector HT-51153 for hazardous areas is identical with the RoR detector HT-51145, except the HT-51153 reacts to a maximum temperature of 90 °C according to EN 54-5, Class CR. The detector is suitable for indoor mounting up to a maximum room height of 6 m.

Specifications:

Application temperature max.	80 °C
Alarm temperature	90 °C
Dimensions Ø × H	100 × 42 mm
Approval number CPR	2531-CPR-CSP11153
Approval number LPCB	010r/12



242065 Thermal Max Detector/Orbis/CS/IS HT-51155

The Thermal Max Detector HT-51155 for hazardous areas is identical with the maximum heat detector HT-51157, except the HT-51155 reacts to a maximum temperature of 90 °C according to EN 54-5, Class CS. The detector is suitable for indoor mounting up to a maximum room height of 6 m.

Specifications:

Application temperature max.	80 °C
Alarm temperature	90 °C
Dimensions Ø × H	100 × 42 mm
Approval number CPR	2531-CPR-CSP11154



Approval number VdS
Approval number LPCB

G 207025
010r/13

246043 Detector Base/Orbis/IS MB-50018

The detector base for hazardous areas is designed to accommodate a Series Orbis/IS intrinsically safe automatic fire detector and is suitable for indoor surface mounting.



Features:

- No electronics contained
- Mechanical theft protection can be activated
- Screw terminals for secure connection of multiple wires

Specifications:

Relative humidity (no condensation)	from 0 % to 98 %
Ambient temperature	from -40 °C to 70 °C
Dimensions Ø × H	100 × 23 mm
Weight	60 g
Colour	white

245683 Manual Call Point/Red/Conventional/IS DC31/55.130

The Manual Call Point dC31 is integrated in a red plastic housing and is used for application in hazardous areas in conventional technology. The device contains a change-over contact and is delivered with an alarm resistor and an end-of-line resistor of your choice. The desired resistance value must be specified when ordering, because the entire inner circuitry is sealed.

Thanks to the encapsulated and sealed-in design, a safety barrier is not required if the device is cabled in compliance with the relevant regulations. The device can be connected to a loop by using a conventional zone module.

Note: The device is also available in other colours, on request.



Features:

- Robust dust-proof and water-proof plastic housing with a door aperture angle of more than 160°
- Low flammability and UV-resistant
- Operating instructions in the form of symbols (EN 54-11)
- Latching push button
- Replaceable standardised glass plate
- Plenty of room for cabling

Specifications:

Operating voltage	supplied through detector line voltage
Ex classification	Ex II 2G Ex emb IIC T6 Ex II 2D Ex tD A21 IP6X T80 °C
Ignition protection	increased safety protection by enclosures encapsulation
Protection class	IP66
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	135 × 135 × 61 mm (without cable glands)
Weight	500 g
Colour	red
Approval number CPR	0786-CPD-20309
Approval number VdS	G 206113
Approval number ATEX	BVS 09 ATEX E 016 X

Cross-references	Page	Art.No.	Name Type
	319	245921	Key Callpoint IP66-C31/EX-DC31 C31/50.18001
	319	245920	Replacement Glass for EX HM SU=10 Pieces E-G/DC31/10STK

242150 Thermal Detector/IP67/Conv/MAX/A2S 6295

The maximum heat detector uses a bimetal element as thermal sensor and has been tested according to EN 54-5 Class A2S. If the alarm temperature is reached, the bimetal contact is closed. An activation will be stored until the detector is reset by the fire detection control panel.

Conventional technology is used for alarm transmission to the fire detection control panel. The activated condition of the detector is indicated by an integrated LED. A conventional zone module allows connection to a loop.

The detector is integrated in a plastic housing and is suitable for application in moist areas (e.g., loading ramps, production areas, food processing) as well as in intrinsically safe areas.



Features:

- Alarm LED on detector housing
- Terminal for external remote indicator
- 3 cable glands for dust and water proof insertion of the connection cables

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	0 µA (quiescent)
Alarm current max.	40 mA
Alarm resistance	400 Ohm
Ex classification	Ex II 3 G Ex ic IIC T5 Gc Ex II 3 D Ex ic IIIC T100 °C Dc
Ignition protection	intrinsically safe
Protection class	IP67
Ambient temperature	from -40 °C to 50 °C
Alarm temperature	57 °C
Dimensions Ø × H	100 × 75 mm
Weight	215 g
Colour	light grey
Approval number CPR	2531-CPD-0232.1192
Approval number VdS	G 223021

Cross-references	Page	Art.No.	Name Type
	361	228003	Safety Barrier ES58-2

242151 Thermal Detector/IP67/Conv/MAX/BS 6296

The maximum heat detector uses a bimetal element as thermal sensor and has been tested according to EN 54-5 Class BS. If the alarm temperature is reached, the bimetal contact is closed. An activation will be stored until the detector is reset by the fire detection control panel.

Conventional technology is used for alarm transmission to the fire detection control panel. The activated condition of the detector is indicated by an integrated LED. A conventional zone module allows connection to a loop.

The detector is integrated in a plastic housing and is suitable for application in moist areas (e.g., loading ramps, production areas, food processing) as well as in intrinsically safe areas.



Features:

- Alarm LED on detector housing
- Terminal for external remote indicator
- 3 cable glands for dust and water proof insertion of the connection cables

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	0 µA (quiescent)
Alarm current max.	40 mA
Alarm resistance	400 Ohm

Ex classification	Ex II 3 G Ex ic IIC T5 Gc Ex II 3 D Ex ic IIIC T100 °C Dc
Ignition protection	intrinsically safe
Protection class	IP67
Ambient temperature	from -40 °C to 65 °C
Alarm temperature	72 °C
Dimensions Ø × H	100 × 75 mm
Weight	215 g
Colour	light grey
Approval number CPR	2531-CPD-0232.1193
Approval number VdS	G 223022

Cross-references	Page	Art.No.	Name Type
	361	228003	Safety Barrier ES58-2

243013 Flame Detector/IR2/Exd 16511

The flame detector for hazardous areas responds to the flickering infrared radiation of open flames and is, therefore, ideally suited for the detection of fires with low smoke development – for example, alcoholic fires or gas flames. By means of two independent infrared sensors for different wavelengths, the detector can safely distinguish between fire situations and deceptive variables. Therefore, it is insensitive to disturbance sources such as sunlight, fluorescent lamps or electric arcs. The detector complies with EN 54-10, Class 1, which means it is suitable for applications with a range of up to 25 m.



The response delay can be set by selecting one of four values between 1 and 8 s. The alarm and the fault condition are signalled via two dry relay contacts. The functioning of the detector can be checked by means of the integrated self test function. Here the detector is activated by a built-in source of infrared light.

Features:

- High immunity to deceptive alarms
- Can be used in conventional technology
- Connection to a loop via a conventional zone module
- Integrated optical self test function

Specifications:

Operating voltage	from 14 VDC to 30 VDC
Current consumption typ.	8 mA (at 24 V, quiescent)
Current consumption max.	28 mA (alarm)
Contact rating	1 A / 50 VDC
Ex classification	Ex II 2GD Ex db IIC T4 Gb Ex tb IIIC T135 °C Db IP66 A21
Ignition protection	flameproof enclosures protection by enclosures
Protection class	IP66
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	146 × 150 × 137 mm
Weight	2.5 kg
Colour	red
Approval number CPR	2831-CPR-F0577
Approval number LPCB	1204a/05
Approval number ATEX	Baseefa08ATEX0270

Cross-references	Page	Art.No.	Name Type
	412	249141	Mounting Bracket/Flame Detector 07127
	352	249155	Weather Shield Stainless Steel for Flame Detectors EXD 16xxx 07279

243014 Flame Detector/IR3/Exd 16519

The flame detector for hazardous areas responds to the flickering infrared radiation of open flames and is, therefore, ideally suited for the detection of fires with low smoke development – for example, alcoholic fires or gas flames. By means of three independent infrared sensors for different wavelengths, the detector can safely distinguish between fire situations and deceptive variables. Therefore, it is particularly insensitive to disturbance sources such as sunlight, fluorescent lamps or electric arcs. The detector complies with EN 54-10, Class 1, which means it is suitable for applications with a range of up to 25 m.



The response delay can be set by selecting one of four values between 1 and 8 s. The alarm and the fault condition are signalled via two dry relay contacts. The functioning of the detector can be checked by means of the integrated self test function. Here the detector is activated by a built-in source of infrared light.

Features:

- Very high immunity to deceptive alarms
- Can be used in conventional technology
- Connection to a loop via a conventional zone module
- Integrated optical self test function

Specifications:

Operating voltage	from 14 VDC to 30 VDC
Current consumption typ.	8 mA (at 24 V, quiescent)
Current consumption max.	28 mA (alarm)
Contact rating	1 A / 50 VDC
Ex classification	Ex II 2GD Ex db IIC T4 Gb Ex tb IIIC T135 °C Db IP66 A21
Ignition protection	flameproof enclosures protection by enclosures
Protection class	IP66
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	146 × 150 × 137 mm
Weight	2.5 kg
Colour	red
Approval number CPR	2831-CPR-F0578
Approval number VdS	G 212189
Approval number LPCB	1204a/06
Approval number ATEX	Baseefa08ATEX0270

Cross-references	Page	Art.No.	Name Type
	412	249141	Mounting Bracket/Flame Detector 07127
	352	249155	Weather Shield Stainless Steel for Flame Detectors EXD 16xxx 07279

249155 Weather Shield Stainless Steel for Flame Detectors EXD 16xxx 07279

The weather shield is made of V4A stainless steel and provides Flame Detectors Series Exd 16xxx with additional protection against moisture and sunlight. The Mounting Bracket 07127 can still be used if the weather shield is used.



Specifications:

Dimensions W × H × D	167 × 165 × 211 mm
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243045 Flame Detector/IR3/IP66/EX 40/40-D-I-6-31-AC-N

With three independent infrared sensors for different wavelengths and with an intelligent evaluation logic, the detector can reliably distinguish between alarm situations and deceptive alarms. With the very high immunity to false alarms, the flame detector can be used in a huge number of industrial and commercial facilities, in which there is a danger of fire that is caused by an accidental event which involves hydrocarbon fuels.

The detector complies with EN 54-10 and detects flames up to a distance of 90 m.

The detector has 6 sensitivity levels that can be selected by the user. The response delay of the detector depends on the distance and is between 50 ms at 0.30 m and 10 s at 90 m. An alarm and a fault condition is signalled via two dry relay contacts. Conventional technology is used for alarm transmission to the fire detection control panel. Integration into a loop can be achieved by means of a conventional zone module.



Features:

- Ultra-fast alarm detection
- Very high immunity to deceptive alarms
- Can be used in conventional technology
- Connection to a loop via a conventional zone module
- Intelligent field of view integrity test
- Innovative integrated infrared test
- Unsurpassed reliability – 150,000 hours MTBF

Specifications:

Operating voltage	from 18 VDC to 32 VDC
Current consumption typ.	125 mA (at 24 V, quiescent)
Current consumption max.	175 mA (alarm)
Contact rating	2 A / 30 VDC
Connections	Terminals
Relative humidity (no condensation)	from 0 % to 100 %
Protection class	IP66
Ambient temperature	from -60 °C to 85 °C
Dimensions W × H × D	100,6 × 117 × 155 mm
Weight	1.3 kg
Weight Detector mounting bracket	1.1 kg
Casing material	Aluminium, polyurethane paint
Colour	red
Approval number ATEX	CSANe 20ATEX1249X

Cross-references	Page	Art.No.	Name Type
	354	249168	Weather Shield Stainless Steel 40/40 877163
	354	249167	Mounting Bracket/Stainless Steel 877090
	353	243046	Flame Detector/IR3/IP66/EX 40/40-D-I-6-31-SC-N

243046 Flame Detector/IR3/IP66/EX 40/40-D-I-6-31-SC-N

With three independent infrared sensors for different wavelengths and with an intelligent evaluation logic, the detector can reliably distinguish between alarm situations and deceptive alarms. With the very high immunity to false alarms, the flame detector can be used in a huge number of industrial and commercial facilities, in which there is a danger of fire that is caused by an accidental event which involves hydrocarbon fuels.

The detector complies with EN 54-10 and detects flames up to a distance of 90 m.

The detector has 6 sensitivity levels that can be selected by the user. The response delay of the detector depends on the distance and is between 50 ms at 0.30 m and 10 s at 90 m. An alarm and a fault condition is signalled via two dry relay contacts. Conventional technology is used for alarm transmission to the fire detection control panel. Integration into a loop can be achieved by means of a conventional zone module.



Features:

- Ultra-fast alarm detection
- Very high immunity to deceptive alarms
- Can be used in conventional technology
- Connection to a loop via a conventional zone module
- Intelligent field of view integrity test
- Innovative integrated infrared test
- Unsurpassed reliability – 150,000 hours MTBF

Specifications:

Operating voltage	from 18 VDC to 32 VDC
Current consumption typ.	125 mA (at 24 V, quiescent)
Current consumption max.	175 mA (alarm)
Contact rating	2 A / 30 VDC
Connections	Terminals
Relative humidity (no condensation)	from 0 % to 100 %
Protection class	IP66
Ambient temperature	from -60 °C to 85 °C
Dimensions W × H × D	100,6 × 117 × 155 mm
Weight	2.9 kg
Weight Detector mounting bracket	1.1 kg
Casing material	stainless steel
Approval number ATEX	CSANe 20ATEX1249X

Cross-references	Page	Art.No.	Name Type
	354	249168	Weather Shield Stainless Steel 40/40 877163
	354	249167	Mounting Bracket/Stainless Steel 877090
	353	243045	Flame Detector/IR3/IP66/EX 40/40-D-I-6-31-AC-N

249167 Mounting Bracket/Stainless Steel 877090

The tiltable support allows the detector to be mounted on flat wall surfaces. The horizontal and vertical locking screws allow the detector to be rotated by up to 60° in all directions, which ensures maximum effectiveness and precise adjustment of the area that is protected by the detector.

Specifications:

Dimensions W × H × D	76 × 91 × 143 mm
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249168 Weather Shield Stainless Steel 40/40 877163

The weather shield is made of stainless steel and protects the detector from extreme weather conditions such as heavy snow and rain as well as from extreme temperatures caused by the sun.

Specifications:

Dimensions Ø × H	120 × 106 mm
Weight	0.7 kg



11.2 Loop Detectors

241102 Optical Smoke Detector/200/IS 22051EISE

The optical smoke detector operates with an optical sensing chamber based on the principle of scattered light. The detector which is integrated in a white housing is designed for use in hazardous areas and is suitable for indoor mounting.

Integration into a loop with System Sensor protocol is done via the Safety Barrier Y2 and the Protocol Interface IST200. Particular attention must be paid to the compliance with country-specific regulations.

Intelligent evaluation algorithms in the respective LST fire detection control panels compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – another effective measure for preventing false alarms.



Features:

- Physical address can be set in the range 01 to 99 by means of 2 decadic rotary switches
- Mechanical theft protection in the base
- Insect screen
- Function can be tested with magnet

Specifications:

Current consumption loop typ.	330 µA
Ex classification	Ex II 1 G Ex ia IIC T5 / T4 Ga
Ignition protection	intrinsically safe
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP40
Protection class	IP43 (with Wet Base Shroud WB-1AP)
Ambient temperature	from -10 °C to 60 °C (Class T5, no icing)
Ambient temperature	from -20 °C to 40 °C (Class T4, no icing)
Dimensions Ø × H	102 × 35 mm
Weight	110 g
Colour	white
Approval number CPR	2831-CPR-F1956
Approval number VdS	G 209129
Approval number LPCB	199m/07
Approval number ATEX	Baseefa08ATEX0278X

Cross-references	Page	Art.No.	Name Type
	362	228006	Safety Barrier/200 Y2
	363	228007	Protocol Interface/200 IST200
	220	246039	Detector Base/500/200AP B501AP

241101 Optical Smoke Detector/200/IS/Ivory 22051EISE-IV

Not for new systems

The optical smoke detector 22051EISE-IV corresponds to the detector 22051EISE, but it has a cream-coloured housing.

Features:

- Physical address can be set in the range 01 to 99 by means of 2 decadic rotary switches
- Mechanical theft protection in the base
- Insect screen
- Function can be tested with magnet

Specifications:

Dimensions Ø × H	102 × 35 mm
Weight	110 g

Approval number CPR
 Approval number VdS
 Approval number LPCB

2831-CPR-F1956
 G 209129
 199m/07

241024 Optical Smoke Detector/XP95/Ex 55000-640

The optical smoke detector for hazardous areas operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting.

The smoke detector must always be connected via a Safety Barrier/XP95 approved for this detector and a Protocol Interface/XP95. Particular attention must be paid to the compliance with country-specific regulations.

Intelligent evaluation algorithms in the respective LST fire detection control panels compensate for the impact of contamination of the sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – an effective measure for preventing false alarms.



Features:

- Continuous transmission of the current measured value to the fire detection control panel
- Insect screen
- Physical address can be set in the range 01 to 126 with a code card in the detector base
- Sealed electronics prevent false alarms caused by the environment
- Mechanical theft protection

Specifications:

Current consumption loop typ.	340 μ A
Ex classification	Ex II 1 G Ex ia IIC T5 Ga (T4 Ga)
Ignition protection	intrinsically safe
Relative humidity (no condensation) max.	95 %
Ambient temperature	from -20 °C to 60 °C
Dimensions $\varnothing \times$ H	100 \times 42 mm
Weight	100 g
Colour	white
Approval number CPR	2531-CPR-CSP10929
Approval number LPCB	010q/22
Approval number ATEX	BAS02ATEX1289

Cross-references	Page	Art.No.	Name Type
	363	228004	Safety Barrier/XP95 29600-098(KFDO-CS-EX1.54)
	364	228005	Protocol Interface/XP95 55000-855
	357	246027	Detector Base/XP95/Ex 45681-215

242036 Thermal Detector/XP95/Ex 55000-440

The maximum heat detector for hazardous areas reacts to a maximum temperature of 55 °C according to EN 54-5, Class A2S. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting up to a maximum room height of 6 m.

The thermal detector must always be connected via a Safety Barrier/XP95 approved for this detector and a Protocol Interface/XP95. Particular attention must be paid to the compliance with country-specific regulations.



Features:

- Continuous transmission of the current measured value to the fire detection control panel
- Physical address can be set in the range 01 to 126 with a code card in the detector base
- Sealed electronics prevent false alarms caused by the environment
- Mechanical theft protection

Specifications:

Current consumption loop typ.	300 µA
Ex classification	Ex II 1 G Ex ia IIC T5 Ga (T4 Ga)
Ignition protection	intrinsically safe
Relative humidity (no condensation) max.	95 %
Ambient temperature	from -20 °C to 60 °C
Application temperature max.	50 °C
Alarm temperature	55 °C
Dimensions Ø × H	100 × 42 mm
Weight	100 g
Colour	white
Approval number CPR	2531-CPR-CSP10920
Approval number VdS	G 216018
Approval number LPCB	010p/23
Approval number ATEX	BAS02ATEX1289

Cross-references	Page	Art.No.	Name Type
	363	228004	Safety Barrier/XP95 29600-098(KFDO-CS-EX1.54)
	364	228005	Protocol Interface/XP95 55000-855
	357	246027	Detector Base/XP95/Ex 45681-215

246027 Detector Base/XP95/Ex 45681-215

The detector base for hazardous areas is designed to accommodate a Series XP95 intrinsically safe analog smoke detector and is suitable for indoor surface mounting.



Features:

- Detector address is easily set with code card in the detector base
- No electronics contained
- Screw terminals for secure connection of multiple wires
- Mechanical theft protection can be activated

Specifications:

Relative humidity (no condensation)	from 10 % to 95 %
Ambient temperature	from -20 °C to 60 °C (no icing)
Dimensions Ø × H	100 × 15 mm
Weight	50 g
Colour	white

11.3 Optical and Acoustic Devices

355662 Sounder/WM66/DCEX/rd/105 IS-A105N

The intrinsically safe multitone sounder consists of a red plastic housing and is intended for mounting in areas with a potentially explosive atmosphere. Thanks to the high protection class IP66, the sounder is also suitable for outdoor use. By means of DIL switches, one of 49 different tone types is selected, for example:

- Slow Whoop tone,
- DIN 33404 tone,
- Continuous tone 800 Hz

By means of external contacts, the device can be switched to up to 2 alternative tones. In this way, multi-stage alarming with different tones can be implemented. By means of a potentiometer, the sound level can be reduced by up to 15 dB(A) / 1 m.

For the cable entry, two openings can be broken out from the sounder so that PG screw connections can be inserted.



Features:

- 49 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 800 Hz)
- 2 alternative tones for multi-stage alarming possible
- High sound level of up to 103 dB, can be reduced by 15 dB
- Wide operating voltage range
- Suitable for surface mounting in hazardous areas

Specifications:

Operating voltage	from 10 VDC to 28 VDC
Current consumption typ.	25 mA (at 24 V)
Current consumption max.	93 mA (limited by zener barrier in the hazardous area)
Ex classification	Ex II 1G Ex ia IIC T4 Ga (Ta -40 °C ... +60 °C)
Ignition protection	intrinsically safe
Protection class	IP66
Ambient temperature	from -40 °C to 60 °C
Sound level max.	103 dB(A)/1 m
Dimensions W × H × D	130 × 130 × 132 mm
Weight	750 g
Casing material	ABS
Colour	red
Approval number ATEX	SIRA 04 ATEX 2301 X

Cross-references	Page	Art.No.	Name Type
	364	249278	Cable Gland Metal M20-EX-IP68

355696 Sounder/WM67/DCEX/rd/107 DS5-3G/3D-24VDC

The multitone sounder consists of a red aluminium die-cast housing and is suitable for mounting in areas with a potentially explosive atmosphere Zone 2 and Zone 22. The sounder can be used for gases of temperature classes T1, T2, T3 and T4 and in environments with non-conductive dusts. Thanks to the high protection class IP67, outdoor use is also possible.

One of 31 different tone types (e.g., DIN 33404 tone, special tone „Gas alarm“ Hoechst) is selected with a DIL switch. By means of external contacts, the device can be switched to up to 3 alternative tones. In this way, multi-stage alarming with different tones can be implemented. Due to the ignition protection classes nA and tD, a zener barrier is not required for the connection of the sounder.



Features:

- High sound level up to 107 dB
- 31 different tones (e.g., DIN 33404 tone, special tone „Gas alarm“ Hoechst)
- 3 alternative tones for multi-stage alarming
- Suitable for surface mounting in hazardous areas

Specifications:

Operating voltage	from 19 VDC to 29 VDC
Current consumption typ.	280 mA (at 24 V)
Ex classification	II 3G Ex nA II T4 II 3D Ex tD A22 IP67 T135 °C
Protection class	IP66 (EN 60529)
Protection class	IP67 (EN 60529)
Ambient temperature	from -25 °C to 55 °C
Sound level max.	107 dB(A)/1 m
Dimensions W × H × D	133,5 × 143 × 133,5 mm
Weight	1.95 kg
Material	die-cast aluminium
Colour	red
Approval number CPR	0786-CPD-20005
Approval number VdS	G 28609

355697 **Sounder/WM67/DCEx/rd/112 DS10-3G/3D-24VDC**

The structure of the multitone sounder DS10-3G/3D-24VDC is identical to that of the sounder DS5-3G/3D-24VDC, but the DS10-3G/3D-24VDC generates a maximum sound pressure level of 112 dB(A)/1 m and the current consumption is 420 mA.



Features:

- High sound level up to 112 dB

Specifications:

Protection class	IP66 (EN 60529)
Sound level max.	112 dB(A)/1 m
Dimensions W × H × D	133,5 × 143 × 133,5 mm
Weight	1.95 kg
Approval number CPR	0786-CPD-20005
Approval number VdS	G 28609

356696 **Strobe/QUADRO/rd//11-60VDC LED-HI-3G/3D-LV-RD**

The multifunctional LED strobe with red cap is suitable for use in Zone 2 according to EN 60079-10-1 and Zone 22 according to EN 60079-10-2, for the operating modes continuous light, blinking light and flashing light. It has been certified for the Categories 3G and 3D (gases and dust in the hazardous area). Different signal types and flash frequencies can be selected.



Specifications:

Operating voltage	from 11 VDC to 60 VDC
Current consumption max.	200 mA (at 24 VDC, continuous light)
Ex classification	II3G Ex nR IIC T6 Gc
Relative humidity (no condensation) max.	II3D Ex tc IIIB T80 °C Dc IP66/67 90 %
Protection class	IP66/67 (EN 60529)
Ambient temperature	from -20 °C to 55 °C
Colour of lens/cap	red
Light colour	red

Dimensions W × H × D	130 × 130 × 130 mm
Weight	500 g
Casing material	Polycarbonate
Colour	light grey

356697 Strobe/QUADRO/cl/11-60VDC LED-HI-3G/3D-LV-CL**New**

As regards functions and features, the strobe with clear cap is identical to the Strobe LED-HI-3G/3D-LV-RD.

Specifications:

Protection class	IP66/67 (EN 60529)
Colour of lens/cap	clear
Dimensions W × H × D	130 × 130 × 130 mm
Weight	500 g



11.4 Zener Barriers, Interfaces and Accessories

228003 Safety Barrier ES58-2

The Safety Barrier ES58-2 with galvanic isolation is needed for the construction of an intrinsically safe electric circuit for the connection of fire detectors in hazardous areas. Due to the galvanic isolation, the earth fault monitoring of the fire detection control panel can remain active. The relevant regulations for installations in hazardous areas must be observed.



Features:

- Connection of automatic detectors
- Limitation of the possible short circuit current, of the open circuit voltage and of the electrical energy stored in the intrinsically safe electric circuit
- Plastic surface mount case

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	5 mA (quiescent)
Ex classification	Ex II (1) G D [EEx ia] IIC
Ignition protection	intrinsically safe
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	120 × 160 × 90 mm
Weight	515 g
Colour	light grey
Approval number ATEX	BAS98ATEX7343

228008 Zener Barrier Z978

The Zener Barrier Z978 is used for the construction of an intrinsically safe electric circuit for the connection of fire detectors in hazardous areas. The zener barrier must be connected to the equipotential busbar of the intrinsically safe area. The relevant regulations for installations in hazardous areas must be observed.



Features:

- Connection of up to 32 detectors that do not store energy – e.g., Thermal Max Detectors SWM-1KL or manual call points
- Limitation of the possible short circuit current, of the open circuit voltage and of the electrical energy stored in the intrinsically safe electric circuit
- Plastic surface mount case for DIN rail mounting

Specifications:

Operating voltage	supplied through detector line voltage
Ex classification	Ex II (1) G D [Ex ia] IIC
Ignition protection	intrinsically safe
Ambient temperature	from -20 °C to 55 °C
Dimensions W × H × D	13 × 115 × 110 mm
Weight	125 g
Colour	green
Approval number ATEX	BAS01ATEX7005

Cross-references	Page	Art.No.	Name Type
	364	228009	Enclosure for Safety Barrier 29600-239

228603 Zener Barrier Z786

The 2-channel Zener Barrier Z786 is used to switch the tone of signalling devices in hazardous areas. It prevents the transfer of impermissibly high energy from the safe area into the hazardous area.

For details about the connection of the signalling devices, please refer to the respective documents. The zener barrier must be connected to the equipotential busbar of the intrinsically safe area.

Since the zener barrier does not have galvanic isolation, the earth fault monitoring of the fire detection control panel has to be deactivated. The relevant regulations for installations in hazardous areas must be observed.

The zener barrier is to be installed in a suitable housing according to EN 60079-15 in such a way that at least protection class IP54 according to EN 60529 is achieved.



Features:

- 2 channels
- DC version, positive polarity
- Series resistance max. 36 Ω + 0.9 V
- Operating voltage of supply circuit max. 27 V
- Operating voltage of measuring circuit max. 26.5 V at 10 μA
- Nominal current of fuse: 50 mA
- DIN rail mounting (35 mm top-hat rail according to EN 60715:2001)
- With diode return

Specifications:

Series resistance	36 Ohm
Ex classification	Ex II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I
Ignition protection	intrinsically safe
Relative humidity (no condensation) max.	75 %
Protection class	IP20
Ambient temperature	from -20 °C to 60 °C
Dimensions W × H × D	12,5 × 115 × 116 mm
Weight	150 g
Casing material	Polycarbonate
Colour	green
Approval number ATEX	BAS 01 ATEX 7005

Cross-references	Page	Art.No.	Name Type
	364	228009	Enclosure for Safety Barrier 29600-239

228006 Safety Barrier/200 Y2

The zener barrier Y2 with galvanic isolation is needed for the construction of an intrinsically safe electric circuit for the connection of fire detectors in loop technology with System Sensor protocol in hazardous areas. The relevant regulations for installations in hazardous areas must be observed.



Features:

- Connection of up to 15 automatic detectors of type 22051EISE
- Limitation of the possible short circuit current, of the open circuit voltage and of the electrical energy stored in the intrinsically safe electric circuit
- DIN rail mounting

Specifications:

Ex classification	Ex II (1) G [Ex ia Ga] IIC Ex II (1) D [Ex ia Da] IIIC Ex I (M1) [Ex ia Ma] I
Ignition protection	intrinsically safe
Ambient temperature	from -20 °C to 60 °C

Dimensions W × H × D	20 × 107,5 × 110 mm
Weight	100 g
Colour	green
Approval number ATEX	BAS00ATEX7087

Cross-references	Page	Art.No.	Name Type
	364	228009	Enclosure for Safety Barrier 29600-239

228007 Protocol Interface/200 IST200

The protocol interface is always used together with a Safety Barrier/200 and allows the bi-directional data exchange of fire detectors in loop technology with System Sensor protocol in hazardous areas.



Features:

- Connection of up to 15 automatic detectors of type 22051EISE
- Designed to be integrated into the Surface Mounting Box SMB500

Specifications:

Current consumption typ.	14 mA
Relative humidity (no condensation)	from 5 % to 95 %
Ambient temperature	from 0 °C to 60 °C
Dimensions W × H × D	70 × 70 × 32 mm
Weight	155 g

Cross-references	Page	Art.No.	Name Type
	362	228006	Safety Barrier/200 Y2

228004 Safety Barrier/XP95 29600-098(KFDO-CS-EX1.54)

The Safety Barrier 29600-098 with galvanic isolation is needed for the construction of an intrinsically safe electric circuit for the connection of fire detectors in loop technology with Apollo protocol in hazardous areas. Due to the galvanic isolation, the earth fault monitoring of the fire detection control panel can remain active. The relevant regulations for installations in hazardous areas must be observed.



Features:

- Connection of up to 5 detectors to one safety barrier
- Limitation of the possible short circuit current, of the open circuit voltage and of the electrical energy stored in the intrinsically safe electric circuit
- DIN rail mounting

Specifications:

Ex classification	Ex II (1) G D [EEx ia] IIC
Ignition protection	intrinsically safe
Ambient temperature	from -10 °C to 60 °C
Dimensions W × H × D	20 × 107,5 × 110 mm
Weight	100 g
Colour	green
Approval number ATEX	BAS00ATEX7087

Cross-references	Page	Art.No.	Name Type
	364	228009	Enclosure for Safety Barrier 29600-239

228005 Protocol Interface/XP95 55000-855

The protocol interface is always used together with a Safety Barrier/XP95 and allows the bi-directional data exchange of fire detectors in loop technology with Apollo protocol in hazardous areas. The number of detectors that can be connected to the protocol interface is limited by the safety barrier. The protocol interface is suitable for snap-on installation on a 35 mm DIN rail.



Specifications:

Current consumption typ.	1 mA (at 24 V)
Relative humidity (no condensation)	from 10 % to 95 %
Ambient temperature	from -10 °C to 60 °C
Dimensions W × H × D	20 × 107,5 × 110 mm
Weight	100 g
Colour	green

Cross-references	Page	Art.No.	Name Type
	363	228004	Safety Barrier/XP95 29600-098(KFDO-CS-EX1.54)
	364	228009	Enclosure for Safety Barrier 29600-239

228009 Enclosure for Safety Barrier 29600-239

The enclosure can accommodate a Zener Barrier Z928, a Zener Barrier Z978, a Safety Barrier Y2, a Safety Barrier 29600-098 as well as a Protocol Interface 55000-855. If more than one device is to be installed in the enclosure, a minimum distance of at least 50 mm between the two devices must be maintained in order to comply with the Ex class. The enclosure is equipped with a 35 mm DIN rail for the easy mounting of the devices.



Specifications:

Dimensions W × H × D	125 × 180 × 130 mm
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Cross-references	Page	Art.No.	Name Type
	363	228004	Safety Barrier/XP95 29600-098(KFDO-CS-EX1.54)
	364	228005	Protocol Interface/XP95 55000-855
	362	228006	Safety Barrier/200 Y2
	361	228008	Zener Barrier Z978
	362	228603	Zener Barrier Z786

249278 Cable Gland Metal M20-EX-IP68

The explosion-tested screw connection made of metal has a nominal thread size of 25 × 1.5 mm.



Features:

- Explosion-tested
- Suitable for cable diameters of 5 to 11 mm
- For Ex Zone gas 1, 2
- For Ex Zone dust 21, 22

Specifications:

Protection class	IP68
Ambient temperature	from -60 °C to 105 °C
Dimensions L × W	38 × 24 mm
Material	brass, nickel-plated
Colour	silver grey

249294 Cable Gland Metal M25-EX-IP68

The explosion-tested screw connection made of metal has a nominal thread size of 25 × 1.5 mm.

Features:

- Explosion-tested
- Suitable for cable diametres of 7.5 to 15 mm
- For Ex Zone gas 1, 2
- For Ex Zone dust 21, 22

Specifications:

Protection class	IP68
Ambient temperature	from -60 °C to 105 °C
Dimensions L × W	40 × 32 mm
Material	brass, nickel-plated
Colour	silver grey



12 RF Fire Detection Systems



12.1 Series FI750/RF

The wireless fire detection system FI750/RF adds reliable RF components to the Series FI750 / FI700. The RF gateway is connected to the fire detection control panel through the loop cabling and communicates by means of the Labor Strauss protocol.

A gateway can integrate up to 127 devices by means of a secure radio protocol. The range of the RF gateway can be increased to more than 4 km by using RF expanders. The RF interface can be linked with a maximum of 15 RF expanders.

The Series FI750/RF comprises a diverse range of various manual call points, automatic detectors, acoustic and optical signalling devices, modules and other RF components.

The wireless fire detection system is ideally suited for areas where cabling the detectors is not possible because of the architectural, technical or organisational situation, it affects the visual appearance or it involves high costs and therefore is uneconomical. Furthermore, the system offers an optimum solution for retrofitting without changing the installation of the building.

249312 RF Loop Interface/750I FI750/RF/W2W

The RF interface forms a gateway between a Fire Detection Control Panel Series BC600 or Series BC216 and wireless devices Series FI750/RF. The RF interface communicates with the control panel via the loop with Labor Strauss protocol.

The RF interface can administrate up to 127 wireless elements (automatic detectors as well as manual call points, modules or signalling devices Series FI750/RF). The gateway itself occupies one module address on the loop. The device addresses are set either through the operation menu of the RF interface or through the PC software TauREX. In addition to the parameterisation of the RF system, this program also allows the analysis and graphical indication of signal strength and transmission quality. The range of up to 500 m can be increased to more than 4 km by using RF expanders FI750/RF/WE. The RF interface can be linked with a maximum of 15 RF expanders.



Features:

- Menu operation by means of buttons and display
- Configuration through menu or PC software
- Status indication via 3 LEDs (power, fault, alarm)
- Integrated dual-isolator
- 2 orthogonal antennas for safe radio communication accommodated in the housing
- 66 bi-directional data channels
- High range of radio transmission
- Tested to EN 54-13

Specifications:

Current consumption loop max.	16 mA
Frequency band	868 MHz
Radio transmission range (free air)	500 m
Relative humidity (no condensation) max.	95 %
Protection class	IP65
Ambient temperature	from -20 °C to 70 °C
Dimensions W × H × D	235 × 160 × 70 mm
Weight	700 g
Colour	white black
Approval number CPR	0051-CPR-2420

Cross-references	Page	Art.No.	Name Type
	369	249313	RF Expander/750 FI750/RF/WE

249313 RF Expander/750 FI750/RF/WE

By means of RF expanders, the range of a Loop RF Interface FI750/RF/W2W or a Conventional RF Expander FI750/RF/CWE can be increased to more than 4 km. The expander serves as a gateway between the RF interface and the wireless devices Series FI750/RF.

The expander can administrate up to 32 wireless elements (automatic detectors Series FI750/RF as well as manual call points, modules or signalling devices) and additional expanders FI750/RF/WE. In this way, a hierarchical RF system with a maximum of 8 levels can be created. The expander itself does not occupy an address. The RF system is configured through the PC software TauREX.



Features:

- 2 orthogonal antennas for safe radio communication accommodated in the housing
- 66 bi-directional data channels
- High range of radio transmission
- Tested to EN 54-13

Specifications:

Current consumption typ.	12 mA
Frequency band	868 MHz
Radio transmission range (free air)	500 m
Relative humidity (no condensation) max.	95 %
Protection class	IP65
Ambient temperature	from -20 °C to 70 °C
Dimensions W × H × D	235 × 160 × 70 mm
Weight	700 g
Colour	white black
Approval number CPR	0051-CPR-2416

249314 RF Conventional Interface/750 FI750/RF/CWE

The conventional RF interface forms a gateway between a conventional fire detection system and the wireless devices Series FI750/RF.

The gateway can administrate up to 127 wireless elements (automatic detectors as well as manual call points, modules or signalling devices Series FI750/RF). The range of up to 500 m can be increased to more than 4 km by using RF expanders FI750/RF/WE. The gateway can be linked with a maximum of 15 RF expanders. In this way, a hierarchical RF system with a maximum of 8 levels can be created. The alarm is transmitted to the fire detection control panel by means of a relay contact. The RF system is configured through the PC software TauREX. In addition to the parameterisation of the RF system, this program also allows the analysis and graphical indication of signal strength and transmission quality.



Features:

- 2 orthogonal antennas for safe radio communication accommodated in the housing
- 66 bi-directional data channels
- High range of radio transmission
- Tested to EN 54-13

Specifications:

Operating voltage	from 9 VDC to 30 VDC
Current consumption typ.	20 mA
Frequency band	868 MHz
Radio transmission range (free air) (to detectors/modules)	500 m
Relative humidity (no condensation) max.	95 %
Protection class	IP65
Ambient temperature	from -20 °C to 70 °C

Dimensions W × H × D	235 × 160 × 70 mm
Weight	700 g
Colour	white black
Approval number CPR	0051-CPR-2417

Cross-references	Page	Art.No.	Name Type
	369	249313	RF Expander/750 FI750/RF/WE

249319 Dongle/FI750/RF TW-DD-SK

The RF dongle is designed to link a notebook to the RF system Series FI750/RF. The dongle is connected to a USB interface of the PC via a Micro-USB cable.

By means of the dongle, a wireless connection to the RF interface or expander is established. The dongle will be automatically detected by the software TauREX. Now the RF system can be parameterised and commissioned through TauREX.



Features:

- Tested to EN 54-13
- Wireless connection to RF interface or expander
- Multicoloured status LED

Specifications:

Energy supply	2 batteries
Current consumption typ.	33 mA at 5 V
Current consumption max.	65 mA
Battery type	AA
Battery voltage	1.5 VDC
Battery lifespan	5 years
Frequency band	868 MHz
Radio transmission range (free air)	200 m
Relative humidity (no condensation)	from 0 % to 95 %
Protection class	IP21
Ambient temperature	from -10 °C to 55 °C
Dimensions L × W × H	120 × 80 × 25 mm
Weight	100 g
Colour	grey

241196 Detector/750/RF/complete FI750/RF/O

The wireless optical smoke detector operates with an optical sensing chamber based on the scattered light principle. A fine-meshed protective grid protects the sensing chamber against ingress of dust and insects. In addition, the design of the housing makes it more difficult for dust to settle inside the sensing chamber.

The detector communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI750/RF/W2W. Alternatively, the Conventional RF Expander FI750/RF/CWE allows operation in a conventional fire detection system. In the configuration of the RF interface, one of 3 sensitivity levels can be selected, thereby adapting the detector optimally to the respective application. In the detector, two batteries are accommodated which reliably power the detector over a long time. The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector as well as further operating conditions.

The wireless detector is particularly suitable for applications where cabling is impossible or uneconomical. The detector is integrated in a white housing and is designed for indoor mounting. The base and both batteries are included in the delivery.



Features:

- Double dust trap and insect screen
- Easy function testing by means of magnet or test gas
- Tested to EN 54-13
- Long battery life of typ. 10 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software TauREX
- Easy programming through „Scan and Link Option“
- Optional theft protection by means of setscrew in the base
- Removal of detector monitored by tamper switch

Specifications:

Energy supply	2 lithium batteries
Battery type	CR123
Battery lifespan	up to 10 years
Frequency band	868 MHz
Radio transmission range (free air) max.	500 m
Relative humidity (no condensation) max.	95 %
Protection class	IP40
Ambient temperature	from -10 °C to 55 °C
Sensitivity opt. sensor	Level 1: 2.7 %/m Level 2: 3.4 %/m Level 3: 4.1 %/m
Dimensions Ø × H	110 × 65 mm
Weight	190 g
Colour	white
Approval number CPR	0051-CPR-2411

Cross-references	Page	Art.No.	Name Type
	368	249312	RF Loop Interface/750I FI750/RF/W2W
	369	249314	RF Conventional Interface/750 FI750/RF/CWE
	369	249313	RF Expander/750 FI750/RF/WE
	384	249210	Lithium Battery 3V CR123/10

241198 Detector/750/RF/complete FI750/RF/OT

The wireless optical-thermal detector operates both with an optical sensing chamber based on the principle of scattered light and with a thermal unit according to EN 54-5 Class A1R. A fine-meshed protective grid protects the sensing chamber against ingress of dust and insects. In addition, the design of the housing makes it more difficult for dust to settle inside the sensing chamber.

The detector communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI750/RF/W2W. Alternatively, the Conventional RF Expander FI750/RF/CWE allows operation in a conventional fire detection system. In the configuration of the RF interface, one of 3 sensitivity levels of the optical sensing chamber can be selected, thereby adapting the detector optimally to the respective application.

In the detector, two batteries are accommodated which reliably power the detector over a long time. The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector as well as further operating conditions.

The wireless detector is particularly suitable for applications where cabling is impossible or uneconomical. The detector is integrated in a white housing and is designed for indoor mounting. The base and both batteries are included in the delivery.



Features:

- Double dust trap and insect screen
- Easy function testing by means of magnet or test gas, or tester for thermal detectors
- Tested to EN 54-13
- Long battery life of typ. 10 years

- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software TauREX
- Easy programming through „Scan and Link Option“
- Optional theft protection by means of setscrew in the base
- Removal of detector monitored by tamper switch

Specifications:

Energy supply	2 lithium batteries
Battery type	CR123
Battery lifespan	up to 10 years
Frequency band	868 MHz
Radio transmission range (free air) max.	500 m
Relative humidity (no condensation) max.	95 %
Protection class	IP40
Ambient temperature	from -10 °C to 55 °C
Sensitivity opt. sensor	Level 1: 2.7 %/m Level 2: 3.4 %/m Level 3: 4.1 %/m
Alarm temperature typ.	58 °C (Class A1R) 78 °C (Class B)
Dimensions Ø × H	110 × 65 mm
Weight	190 g
Colour	white
Approval number CPR	0051-CPR-2413

Cross-references	Page	Art.No.	Name Type
	368	249312	RF Loop Interface/750I FI750/RF/W2W
	369	249314	RF Conventional Interface/750 FI750/RF/CWE
	369	249313	RF Expander/750 FI750/RF/WE
	384	249210	Lithium Battery 3V CR123/10

242089 Detector/750/RF/complete FI750/RF/T

The wireless thermal detector operates with a thermal unit according to EN 54-5 Class A1R or BS. The detector communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI750/RF/W2W. Alternatively, the Conventional RF Expander FI750/RF/CWE allows operation in a conventional fire detection system. In the configuration of the RF interface, the characteristic of the thermal unit can be selected, thereby adapting the detector optimally to the respective application.



In the detector, two batteries are accommodated which reliably power the detector over a long time. The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector as well as further operating conditions.

The wireless detector is particularly suitable for applications where cabling is impossible or uneconomical. The detector is integrated in a white housing and is designed for indoor mounting. The base and both batteries are included in the delivery.

Features:

- Easy function testing by means of magnet or tester for thermal detectors
- Tested to EN 54-13
- Long battery life of typ. 10 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software TauREX
- Easy programming through „Scan and Link Option“
- Optional theft protection by means of setscrew in the base
- Removal of detector monitored by tamper switch

Specifications:

Energy supply	2 lithium batteries
Battery type	CR123
Battery lifespan	up to 10 years
Frequency band	868 MHz
Radio transmission range (free air) max.	500 m
Relative humidity (no condensation) max.	95 %
Protection class	IP40
Ambient temperature	from -10 °C to 55 °C
Alarm temperature typ.	58 °C (Class A1R) 78 °C (Class B)
Dimensions Ø × H	110 × 65 mm
Weight	190 g
Colour	white
Approval number CPR	0051-CPR-2415

Cross-references	Page	Art.No.	Name Type
	368	249312	RF Loop Interface/750I FI750/RF/W2W
	369	249314	RF Conventional Interface/750 FI750/RF/CWE
	369	249313	RF Expander/750 FI750/RF/WE
	384	249210	Lithium Battery 3V CR123/10

240695 MCP/red/750/RF HME/3000/74/H1/RF
New – available soon

The wireless manual call point Series HME complies with EN 54-11 / type B and is accommodated in a robust red aluminium die-cast housing. It communicates with the Fire Detection Control Panels Series BC216 and BC600 via the RF Interface FI750/RF/W2W. Alternatively, the device can be operated via a Conventional RF Expander FI750/RF/CWE in a conventional fire detection system.

The manual call point contains two batteries. During normal operation, the device is powered by the main battery. In the event of a failure of the main battery, which is indicated on the fire detection control panel, the secondary battery powers the device. A two-coloured LED indicates the activated condition as well as further operating conditions of the device.

The wireless device is particularly suitable for applications where cabling is impossible or uneconomical.



Features:

- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Latching push button
- Long battery life of up to 10 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software TauREX
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Energy supply	Lithium battery CR123 as main battery and as secondary battery
Battery lifespan	up to 10 years
Frequency band	868 MHz
Radio transmission range (free air) max.	200 m
Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	127 × 127 × 35 mm (without antenna)

Dimensions Ø × H	10 × 75 mm (antenna)
Weight	453 g (without batteries)
RAL colour	flame red, RAL 3000

Cross-references	Page	Art.No.	Name Type
	368	249312	RF Loop Interface/750I FI750/RF/W2W
	369	249314	RF Conventional Interface/750 FI750/RF/CWE
	369	249313	RF Expander/750 FI750/RF/WE
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	314	249633	Protective Cover V2A for MCP/Red WG/ROT-E-1
	384	249210	Lithium Battery 3V CR123/10
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240696 MCP/red/750/RF/IP65 HME/3000/74/H1/RF/65

New – available soon

As regards the function and cross-references, the wireless manual call point is identical to the wireless manual call point HME/3000/74/H1/RF; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Specifications:

Protection class	IP65
Dimensions W × H × D	127 × 127 × 35 mm (without antenna)
Weight	453 g (without batteries)

240697 MCP/blue/750/RF/HAUSALARM HME/5015/74/02/RF

New – available soon

The wireless manual call point Series HME is accommodated in a robust blue aluminium die-cast housing and communicates with the Fire Detection Control Panels Series BC216 and BC600 via the RF Interface FI750/RF/W2W. Alternatively, the device can be operated via a Conventional RF Expander FI750/RF/CWE in a conventional fire detection system.

Two batteries are integrated in the manual call point. During normal operation, the device is powered by the main battery; in the event of a failure of the main battery, which is indicated on the fire detection control panel, the secondary battery powers the device. A two-coloured LED indicates the activated condition as well as further operating conditions of the device.

The wireless device is particularly suitable for applications where cabling is impossible or uneconomical.



Features:

- Robust aluminum die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Latching push button
- Long battery life of up to 10 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software TauREX
- Easy to replace standardised glass plate
- Call point housing can be opened with key SCHL-HME (included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54
- Optional protective cover can provide additional mechanical protection

Specifications:

Energy supply	Lithium battery CR123 as main battery and as secondary battery
Battery lifespan	up to 10 years
Frequency band	868 MHz
Radio transmission range (free air) max.	200 m

Relative humidity (no condensation)	from 5 % to 95 %
Protection class	IP43
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	127 × 127 × 35 mm (without antenna)
Dimensions Ø × H	10 × 75 mm (antenna)
Weight	453 g (without batteries)
RAL colour	sky blue, RAL 5015

Cross-references	Page	Art.No.	Name Type
	368	249312	RF Loop Interface/750I FI750/RF/W2W
	369	249314	RF Conventional Interface/750 FI750/RF/CWE
	369	249313	RF Expander/750 FI750/RF/WE
	315	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	314	249634	Protective Cover V2A for MCP/blue WG/BLAU-E-1
	384	249210	Lithium Battery 3V CR123/10
	317	249686	Replacement Glass for HME SU=10 Pieces SCHEIBE-HME/10STK

240698 MCP/blue/750/RF/HAUSALARM/IP65 HME/5015/74/02/RF/65

New – available soon

As regards the function and cross-references, the wireless manual call point is identical to the wireless manual call point HME/5015/74/02/RF; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Specifications:

Protection class	IP65
Dimensions W × H × D	127 × 127 × 35 mm (without antenna)
Weight	453 g (without batteries)

245077 Manual Call Point/Red/750/RF/Flexi FI750/RF/MCP

The wireless manual call point according to EN 54-11 / type A is accommodated in a red plastic housing and communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI750/RF/W2W. Alternatively, the Conventional RF Expander FI750/RF/CWE allows operation in a conventional fire detection system. It is activated by pressing in the plastic pane without breaking it. By means of a special key, the pane can be put back to the idle position, thereby resetting the call point.



Two batteries are accommodated in the manual call point. Normally, the device is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the device. The two-coloured LED indicates the activated condition of the device as well as further operating conditions. The wireless device is particularly suitable for applications where cabling is impossible or uneconomical. The surface mounting box, both batteries as well as the special key are included in the delivery.

Features:

- Operating instructions in the form of symbols (EN 54-11)
- Activation by pressing in plastic pane without breaking it
- Long battery life of up to 10 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software TauREX
- Plastic pane easy to reset
- Tested to EN 54-13

Specifications:

Energy supply	2 lithium batteries
Battery type	CR123
Battery lifespan	up to 10 years
Frequency band	868 MHz
Radio transmission range (free air) max.	500 m

Protection class	IP42
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	85 × 85 × 60 mm
Weight (without batteries)	160 g
Colour	red
Approval number CPR	0051-CPR-2412

Cross-references	Page	Art.No.	Name Type
	368	249312	RF Loop Interface/750I FI750/RF/W2W
	369	249314	RF Conventional Interface/750 FI750/RF/CWE
	369	249313	RF Expander/750 FI750/RF/WE
	318	245095	Hinged Cover for FI7x0/MCP/PACK10pcs FI720/750/MCP/C-SFT-304
	317	245079	Flush Mounting Plate FI750/MCP FI750/MCP/FMP/R
	318	249377	Reset Key for MCP720/750/PACK10pcs FI720/750/MCP/KEY
	384	249210	Lithium Battery 3V CR123/10

249315 Monitor Module 1xIN/750/RF FI750/RF/M1IN

The wireless monitor module provides a line-monitored input for the connection of contact detectors. That makes it easy to integrate manual call points, sprinkler system contacts or supervising contacts into a fire detection system with radio transmission. The module communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI750/RF/W2W. Alternatively, the Conventional RF Expander FI750/RF/CWE allows operation in a conventional fire detection system.



Two batteries are accommodated in the housing of the module. Normally, the module is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the module. The two-coloured LED indicates the alarm condition and the fault condition of the module.

The wireless module is particularly suitable for applications where cabling is impossible or uneconomical. The module is integrated in a white housing and is designed for indoor mounting. Both batteries are included in the delivery.

Features:

- Long battery life of up to 10 years
- Input monitored for wire breakage and short circuit
- Tested to EN 54-13

Specifications:

Energy supply	2 lithium batteries
Battery type	CR123
Battery lifespan	10 years
Frequency band	868 MHz
Radio transmission range (free air)	500 m
Relative humidity (no condensation) max.	1 %
Protection class	IP65
Ambient temperature	from -10 °C to 55 °C
Dimensions L × W × H	136 × 96 × 57 mm
Weight (with batteries)	270 g
Colour	light grey
Approval number CPR	0051-CPR-2418

Cross-references	Page	Art.No.	Name Type
	369	249314	RF Conventional Interface/750 FI750/RF/CWE
	368	249312	RF Loop Interface/750I FI750/RF/W2W
	369	249313	RF Expander/750 FI750/RF/WE
	384	249210	Lithium Battery 3V CR123/10

251023 Remote Indicator/750/RF FI750/RF/PA

The RF Remote Indicator FI750/RF/PA is designed for the remote indication of a detector activation in the wireless fire detection system FI750/RF. Since the activation can be freely parameterised, the remote indicator can indicate the activation of any combination of detectors. The indicator communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI750/RF/W2W. Alternatively, the Conventional RF Expander FI750/RF/CWE allows operation in a conventional fire detection system.



The RF remote indicator is particularly suitable for applications where cabling is impossible or uneconomical. The indicator is integrated in a white housing and is designed for indoor mounting. Both batteries are included in the delivery.

Features:

- Tested to EN 54-13
- Bright LED
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software TauREX
- Plastic case with red cap

Specifications:

Energy supply	2 lithium batteries
Battery type	CR123
Battery lifespan	up to 10 years
Frequency band	868 MHz
Radio transmission range (free air) max.	500 m
Relative humidity (no condensation) max.	95 %
Protection class	IP42
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	80 × 80 × 32 mm
Weight (without batteries)	60 g
Colour	white
Approval number CPR	0051-CPR-2410

Cross-references	Page	Art.No.	Name Type
	368	249312	RF Loop Interface/750I FI750/RF/W2W
	369	249314	RF Conventional Interface/750 FI750/RF/CWE
	369	249313	RF Expander/750 FI750/RF/WE
	384	249210	Lithium Battery 3V CR123/10

249316 Control Module 1xRel/Batt/750/RF FI750/RF/M1REL/BATT

The battery-operated wireless control module provides a dry relay output as well as a non-monitored voltage output (12/24 VDC, 40/20 mA) for the actuation of external devices. That makes it easy to integrate ancillary devices into a fire detection system with radio transmission, without monitoring the line. The module communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI750/RF/W2W. Alternatively, the Conventional RF Expander FI750/RF/CWE allows operation in a conventional fire detection system.



Two batteries are accommodated in the housing of the module. Normally, the module is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the module. The two-coloured LED indicates the activated condition and the fault condition of the module.

The wireless module is particularly suitable for applications where cabling is impossible or uneconomical. The module is integrated in a white housing and is designed for indoor mounting. Both batteries are included in the delivery.

Features:

- Long battery life of up to 4 years

- Output current of voltage output max. 50 mA (at 24 V)
- Tested to EN 54-13

Specifications:

Energy supply	2 lithium batteries
Battery type	CR123
Battery lifespan	up to 4 years
Output current max. (at 24 V)	50 mA
Contact rating	2 A / 30 VDC
Frequency band	868 MHz
Radio transmission range (free air)	500 m
Relative humidity (no condensation) max.	95 %
Protection class	IP65
Ambient temperature	from -10 °C to 55 °C
Dimensions L × W × H	136 × 96 × 57 mm
Weight (with batteries)	270 g
Colour	white
Approval number CPR	0051-CPR-2419

Cross-references	Page	Art.No.	Name Type
	368	249312	RF Loop Interface/750I FI750/RF/W2W
	369	249314	RF Conventional Interface/750 FI750/RF/CWE
	369	249313	RF Expander/750 FI750/RF/WE
	384	249210	Lithium Battery 3V CR123/10

249317 Module/RF/750-Sounder-Strobe FI750/RF/M/SST

The battery-powered wireless control module is used to actuate a conventional signalling device CWS/SOUx or CWS/SOUx/STRC in a wireless fire detection system FI750/RF. The module is designed for insertion into the bottom of the signalling device's housing. The connection to the signalling device is made via a connector. The tone and the sound level are set on the signalling device by means of a DIL switch.

The module communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI750/RF/W2W. Alternatively, the Conventional RF Expander FI750/RF/CWE allows operation in a conventional fire detection system. In the housing of the module, two batteries are accommodated which reliably power the module and the signalling device over a long time. The two-coloured LED indicates the system conditions of the module.

In combination with the wireless module, the signalling device is particularly suitable for applications where cabling is impossible or uneconomical. Both batteries are included in the delivery.



Features:

- Long battery life of typ. 4 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software TauREX
- Tested to EN 54-13

Specifications:

Energy supply	2 lithium batteries
Battery type	CR123
Battery lifespan	up to 4 years
Frequency band	868 MHz
Radio transmission range (free air)	500 m
Relative humidity (no condensation) max.	95 %
Protection class	IP65 (installed in signalling device)
Ambient temperature	from -10 °C to 55 °C (no icing)
Dimensions L × W × H	83 × 78 × 35 mm
Weight (without batteries)	55 g
Approval number CPR	0051-CPR-2421 0051-CPR-2422

Cross-references	Page	Art.No.	Name Type
	368	249312	RF Loop Interface/750I FI750/RF/W2W
	369	249314	RF Conventional Interface/750 FI750/RF/CWE
	369	249313	RF Expander/750 FI750/RF/WE
	168	355208	Sounder/WM65/DC/red/100 CWS/SOUR
	169	355210	Sounder/WM65/DC/white/100 CWS/SOUW
	172	355209	Sounder-Str/WM65/DC/re/cl/wh/100/W CWS/SOUR/STRC
	173	355211	Sounder-Str/WM65/DC/wh/cl/wh/100/W CWS/SOUW/STRC
	384	249210	Lithium Battery 3V CR123/10

355208 Sounder/WM65/DC/red/100 CWS/SOUR

The conventional multitone sounder consists of a round, red plastic housing and is suitable for outdoor and indoor mounting. In combination with the module FI750/M/SST, the sounder can be connected to a loop with Labor Strauss protocol. Alternatively, the sounder can be operated in a wireless fire detection system FI720/RF or FI700/RF by installing the wireless module FI720/RF/M/SST. One of the two modules can be installed into the bottom part of the housing of the sounder.



One of 32 different tone type combinations is selected via DIL switches. Depending on the parameter setup of the control panel and the system condition, this allows the sounder to be actuated with two different tones. In this way, multi-stage alarming with 2 different tones can be implemented. One of four sound levels can be selected by means of two DIL switches.

Features:

- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 970 Hz), 4 of which have been tested according to EN 54-3
- Alternative tone for two-stage alarming possible
- High sound level, 4 levels selectable with DIL switch
- Synchronisation of the sounder tones
- Wide operating voltage range
- Low power consumption, depending on tone type and operating voltage
- Optional theft protection by means of 2 setscrews
- Cable can be entered from the back or from the side

Specifications:

Operating voltage	from 15 VDC to 40 VDC
Current consumption max.	5 mA (at 24 V, high sound level)
Protection class	IP65
Ambient temperature	from -10 °C to 55 °C
Sound level max.	100 dB(A)/1 m
Dimensions Ø × D	130 × 90 mm
Weight	270 g
Colour	red
Approval number CPR	2831-CPR-F1426 (CWS/SOUR) 2831-CPR-F1428 (CWS/SOUR + FI750/M/SST) 0051-CPR-0617 (CWS/SOUR + FI750/RF/M/SST)
Approval number LPCB	928w/07 (CWS/SOUR) 928ah/01 (CWS/SOUR + FI750/M/SST)

Cross-references	Page	Art.No.	Name Type
	168	249307	Module FI750I-Sounder-Strobe FI750/M/SST
	378	249317	Module/RF/750-Sounder-Strobe FI750/RF/M/SST

355210 Sounder/WM65/DC/white/100 CWS/SOUW

The multitone sounder CWS/SOUW is identical with the Sounder CWS/SOUR, except that it consists of a white plastic housing.

Specifications:

Protection class	IP65
Sound level max.	100 dB(A)/1 m
Dimensions Ø × D	130 × 90 mm
Weight	270 g
Approval number CPR	2831-CPR-F1426 (CWS/SOUW) 2831-CPR-F1428 (CWS/SOUW + FI750/M/SST) 0051-CPR-0617 (CWS/SOUW + FI750/RF/M/SST)
Approval number LPCB	928w/07 (CWS/SOUW) 928ah/01 (CWS/SOUW + FI750/M/SST)



355236 Sounder/WB/750RF/white FI750/RF/WB/SOUW

The wireless sounder-strobe communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI750/RF/W2W. Alternatively, the Conventional RF Expander FI750/RF/CWE allows operation in a conventional fire detection system.

Two batteries are accommodated in the sounder, which reliably power the unit over a long time. The tone is set by means of a DIL switch.

The wireless sounder-strobe is particularly suitable for applications where cabling is impossible or uneconomical. The device is built into in a white plastic housing.

The integrated base can accommodate an automatic wireless detector Series FI750/RF. The two batteries are included in the delivery.



Features:

- Selectable tone (e.g., Slow Whoop tone, DIN tone, alternating tone 800/1000 Hz, continuous tone 970 Hz, interrupted tone 970 Hz)
- Long battery life of up to 5 years
- 2 different sound levels selectable
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software TauREX
- Tested to EN 54-13

Specifications:

Energy supply	2 lithium batteries
Battery type	CR123
Battery lifespan	up to 5 years
Frequency band	868 MHz
Radio transmission range (free air) max.	500 m
Relative humidity (no condensation) max.	95 %
Protection class	IP21C
Ambient temperature	from -10 °C to 55 °C
Sound level max.	89 dB(A)/1 m
Dimensions Ø × H	130 × 55 mm
Weight (without batteries)	190 g
Colour	white
Approval number CPR	0051-CPR-2410

Cross-references	Page	Art.No.	Name Type
	368	249312	RF Loop Interface/750I FI750/RF/W2W
	369	249314	RF Conventional Interface/750 FI750/RF/CWE
	369	249313	RF Expander/750 FI750/RF/WE
	180	359075	Lid for Sounder FI7x0/WB FI720/750/COVER/R
	180	359074	Lid for Sounder FI7x0/WB FI720/750/COVER/W
	384	249210	Lithium Battery 3V CR123/10

355209 Sounder-Str/WM65/DC/re/cl/wh/100/W CWS/SOUR/STRC

The conventional combined sounder-strobe consists of a round, red plastic housing and is suitable for outdoor and indoor mounting. The signalling device is used in addition to the acoustic alarming, optical alarming according to EN 54-23 is required. In combination with the module FI750/M/SST, the sounder-strobe can be connected to a loop with Labor Strauss protocol. Alternatively, the sounder-strobe can be operated in a wireless fire detection system FI720/RF or FI700/RF by installing the wireless module FI720/RF/M/SST. One of 32 different tone type combinations is selected via DIL switches. Depending on the parameter setup of the control panel and the system condition, this allows the sounder to be actuated with two different tones. In this way, multi-stage alarming with 2 different tones can be implemented. One of four sound levels can be selected by means of two DIL switches. Thanks to the use of light emitting diodes, the strobe with clear lens and white light has a low current consumption. The optimised design of the lens ensures very high illumination of the room. The strobe has been tested according to EN 54-23 Class W (wall). The strobe can operate alone, for which purpose the tone of the sounder has to be set to „silent“.



Features:

- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 970 Hz), 4 of which have been tested according to EN 54-3
- Alternative tone for two-stage alarming possible
- High sound level, 4 levels selectable with DIL switch
- Very high-performance LEDs
- Synchronisation of the sounder tones and flash pulses
- Wide operating voltage range
- Low power consumption, depending on tone type and operating voltage
- Optional theft protection by means of 2 setscrews
- Cable can be entered from the back or from the side

Specifications:

Operating voltage	from 15 VDC to 40 VDC
Current consumption max.	17 mA (at 24 V, high sound level)
Protection class	IP65
Ambient temperature	from -10 °C to 55 °C
Sound level max.	100 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	W-2.5-7 – wall mounting
Mounting height max.	2.5 m
Illuminated area	7 × 7 m
Dimensions Ø × D	130 × 92 mm
Weight	290 g
Colour	red
Approval number CPR	2831-CPR-F1427 (CWS/SOUR/STRC) 2831-CPR-F1429 (CWS/SOUR/STRC + FI750/M/SST) 0051-CPR-0618 (CWS/SOUR/STRC + FI750/RF/M/SST)
Approval number LPCB	928y/01 (CWS/SOUR/STRC) 928z/01 (CWS/SOUR/STRC + FI750/M/SST)

Cross-references	Page	Art.No.	Name Type
	168	249307	Module FI750I-Sounder-Strobe FI750/M/SST
	378	249317	Module/RF/750-Sounder-Strobe FI750/RF/M/SST

355211 Sounder-Str/WM65/DC/wh/cl/wh/100/W CWS/SOUW/STRC

The combined Sounder-Strobe CWS/SOUW/STRC is identical with the signalling device CWS/SOUR/STRC, except that it consists of a white plastic housing.



Specifications:

Protection class	IP65
Sound level max.	100 dB(A)/1 m
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	W-2.5-7 – wall mounting
Mounting height max.	2.5 m
Illuminated area	7 × 7 m
Dimensions Ø × D	130 × 92 mm
Weight	290 g
Approval number CPR	2831-CPR-F1427 (CWS/SOUW/STRC) 2831-CPR-F1429 (CWS/SOUW/STRC + FI750/M/SST)
Approval number LPCB	0051-CPR-0618 (CWS/SOUW/STRC + FI750/RF/M/SST) 928y/01 (CWS/SOUW/STRC) 928z/01 (CWS/SOUW/STRC + FI750/M/SST)

355237 Sounder-Str/WB/750RF/wh/cl/re/C FI750/RF/WB/SSTWCR

The wireless sounder-strobe communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI750/RF/W2W. Alternatively, the Conventional RF Expander FI750/RF/CWE allows operation in a conventional fire detection system.

In the sounder, two batteries are accommodated which reliably power the sounder over a long time. The tone is set by means of a DIP switch. The wireless sounder-strobe is particularly suitable for applications where cabling is impossible or uneconomical. The integrated base can accommodate an automatic wireless detector Series FI750/RF. The two batteries are included in the delivery.



Features:

- Strobe with 3 clear lenses and red LEDs
- Selectable tone (e.g., Slow Whoop tone, DIN tone, alternating tone 800/1000 Hz, continuous tone 970 Hz, interrupted tone 970 Hz)
- Low power consumption due to the use of LEDs
- Long battery life of up to 5 years
- 2 different sound levels selectable
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software TauREX
- Tested to EN 54-13

Specifications:

Energy supply	2 lithium batteries
Battery type	CR123
Battery lifespan	up to 5 years
Frequency band	868 MHz
Radio transmission range (free air) max.	500 m
Relative humidity (no condensation) max.	95 %
Protection class	IP21C
Ambient temperature	from -10 °C to 55 °C
Sound level max.	89 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	C-3-10.0 – ceiling mounting (high flash energy)

Mounting height max.	3 m
Illuminated area	Ø 10 m, equals 7.1 × 7.1 m
Category EN 54-23	O-1.7-6.0 – ceiling mounting (low flash energy)
Dimensions Ø × H	130 × 55 mm
Weight (without batteries)	190 g
Colour	white
Approval number CPR	0051-CPR-2411

Cross-references	Page	Art.No.	Name Type
	368	249312	RF Loop Interface/750I FI750/RF/W2W
	369	249314	RF Conventional Interface/750 FI750/RF/CWE
	369	249313	RF Expander/750 FI750/RF/WE
	180	359075	Lid for Sounder FI7x0/WB FI720/750/COVER/R
	180	359074	Lid for Sounder FI7x0/WB FI720/750/COVER/W
	384	249210	Lithium Battery 3V CR123/10

355238 Sounder-Str/WB/750RF/wh/cl/wh/C FI750/RF/WB/SSTWCW

The wireless sounder-strobe is identical to the wireless sounder-strobe FI750/RF/WB/SSTWCR, except it is equipped with white very high-performance LEDs.



Features:

- Strobe with 3 clear lenses and white LEDs

Specifications:

Protection class	IP21C
Sound level max.	89 dB(A)/1 m
Colour of lens/cap	clear
Light colour	white
Category EN 54-23	C-3-15.0 – ceiling mounting (high flash energy)
Mounting height max.	3 m
Illuminated area	Ø 15 m, equals 10.6 × 10.6 m
Category EN 54-23	O-4.6-15.0 – ceiling mounting (high flash energy)
Mounting height max.	4.6 m
Category EN 54-23	C-3-10.0 – ceiling mounting (low flash energy)
Mounting height max.	3 m
Illuminated area	Ø 10 m, equals 7.1 × 7.1 m
Dimensions Ø × H	130 × 55 mm
Weight (without batteries)	190 g
Approval number CPR	0051-CPR-2411

249318 RF Measurement Kit FI750/RF/MK

The RF measurement kit makes planning, commissioning and maintaining a wireless fire detection system FI750/RF easier. By means of the measuring equipment, the field strength of the radio transmission between the RF interface or RF expander and the wireless devices of the fire detection system can be measured, which allows you to find the best place for mounting a device.

The set comes in a robust, high-quality protective case and includes an RF interface, a test detector and an RF dongle. The APP „Taurus Survey“ has to be installed on a smartphone. The APP uses the dongle to establish a connection to the RF system. Through the measurement of the radio channels, the occupancy of all radio channels is checked.

Through the measurement between wireless element and RF interface, between RF interface and expander, or between expander and wireless element, the field strength of the connection between the two devices is evaluated. Before carrying out the measurement, the RF interface or RF expander as well as the test detector are positioned at the place where they are to be mounted permanently. The evaluation of the measurement can also be summarised in a test report.



Features:

- Tested to EN 54-13
- Makes project planning and commissioning of the RF system easier
- Measurement of the field strength of the radio connection

Specifications:

Energy supply	Test detector: 2 lithium batteries
	RF interface: power unit
Battery type	Dongle: 2 batteries
	CR123
	AA
Frequency band	868 MHz
Radio transmission range (free air)	500 m
Dimensions L × W × H	360 × 360 × 450 mm
Weight	4.7 kg

Cross-references	Page	Art.No.	Name Type
	384	249210	Lithium Battery 3V CR123/10

359075 Lid for Sounder FI7x0/WB FI720/750/COVER/R

The red cover plate is used to cover and protect a detector base sounder Series FI750 or a wireless detector base sounder Series FI720/RF if no detector is inserted.

Specifications:

Dimensions Ø × H	106 × 10 mm
Weight	20 g
Colour	red



359074 Lid for Sounder FI7x0/WB FI720/750/COVER/W

The white cover plate is used to cover and protect a detector base sounder Series FI750 or a wireless detector base sounder Series FI720/RF if no detector is inserted. However, the cover can also be used to protect a detector base Series FI750 if the detector has been permanently removed.

Specifications:

Dimensions Ø × H	106 × 10 mm
Weight	20 g
Colour	white



249210 Lithium Battery 3V CR123/10

New

The 3 V battery is used for powering automatic wireless detectors, wireless manual call points, wireless modules and wireless signalling devices Series FI7x0/RF and 200AP-RF. One packing unit contains 10 pieces.

Features:

- High quality lithium battery
- Low self-discharge
- Long lifespan
- Shelf life min. 5 years

Specifications:

Battery capacity min.	1200 mAh
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12.2 Series 200AP-RF

The wireless fire detection system 200AP-RF complements the Series 200-Advanced with reliable RF components which are connected through a „Mesh“ network. The RF gateway is connected to the fire detection control panel through the loop cabling and communicates by means of the System Sensor protocol. A gateway uses the „Mesh“ radio technology to connect up to 32 wireless devices to form a stable network. Through the use of RF repeaters, the range can be extended and the transmission quality in the RF system can be increased. The Series 200AP-RF comprises a diverse range of various manual call points, automatic detectors, acoustic and optical signalling devices, modules and other RF components.



The wireless fire detection system is ideally suited for areas where cabling the detectors is not possible because of the architectural, technical or organisational situation, it affects the visual appearance or it involves high costs and therefore is uneconomical. Furthermore, the system offers an optimum solution for retrofitting without changing the installation of the building.

249350 RF Interface/S200API M200G-RF

The RF interface forms a gateway between a Fire Detection Control Panel Series BC600 or Series BC216 and wireless devices Series 200AP-RF. The RF interface communicates with the control panel via the loop with System Sensor protocol. Up to 8 RF interfaces can be connected to a loop.

Thanks to the use of the Mesh technology, a failure of the direct radio connection between a wireless element and the RF interface will lead to an automatic switch-over to an alternative communication path via other elements of the RF system. In addition, the range of up to 400 m can be extended by using RF repeaters.

The RF interface can administrate up to 32 automatic detectors, manual call points and other wireless elements Series 200AP-RF. The gateway itself occupies one module address on the loop. In addition to the parameterisation of the RF system, the PC software Agile IQ also allows the analysis and graphical indication of signal strength and transmission quality.

The RF interface is integrated in a white housing and is intended for insertion into a standard detector base B501AP.



Features:

- Mesh technology for highest reliability of radio connection
- Configuration by means of PC software Agile IQ
- 2 LEDs for status of loop communication and radio communication
- Integrated dual-isolator
- 2 antennas for optimum signal quality
- 18 bi-directional data channels
- High range of radio transmission
- Mechanical theft protection can be activated in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Current consumption loop typ.	510 µA
Frequency band	868 MHz
Radio transmission range (free air)	400 m
Ambient temperature	from -30 °C to 60 °C
Dimensions Ø × H	102 × 28 mm
Height with standard base	42 mm
Weight (without base)	90 g
Colour	white
Approval number CPR	0333-CPR-075484
Approval number VdS	G 217065

Cross-references	Page	Art.No.	Name Type
	220	246039	Detector Base/500/200AP B501AP
	386	249351	RF Repeater/S200AP M200F-RF

249351 RF Repeater/S200AP M200F-RF

By means of the RF repeater, the range of the RF system Series 200AP-RF can be extended and the transmission quality in the RF system can be increased. In addition the Mesh technology is used to automatically switch over to an alternative communication path via other elements of the RF system, if a failure of the direct radio connection between a wireless element and the RF interface occurs.

The repeater occupies one module address on the loop to which the RF interface is connected. In addition to the parameterisation of the RF system, the PC software Agile IQ also allows the analysis and graphical indication of signal strength and transmission quality.

The housing accommodates 4 batteries which are individually monitored and which reliably power the repeater over the entire battery life. The two multicoloured LED indicators with 360° visibility indicate the operating conditions of the repeater as well as of the radio communication.

The RF repeater is integrated in a white housing and is intended for insertion into a wireless detector base B501RF. The 4 batteries are included in the delivery, the base B501RF must be ordered separately.



Features:

- Mesh technology for highest reliability of radio connection
- Long battery life of up to 4 years
- 2 LEDs for status of the repeater
- 2 antennas for optimum signal quality
- High range of radio transmission
- Mechanical theft protection can be activated in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Energy supply	4 lithium batteries
Battery type	CR123
Battery lifespan	4 years
Frequency band	868 MHz
Radio transmission range (free air)	500 m
Ambient temperature	from -30 °C to 60 °C
Dimensions Ø × H	104 × 40 mm
Height with standard base	51 mm
Weight (without batteries and base)	115 g
Colour	white
Approval number CPR	0333-CPR-075501
Approval number VdS	G 217066

Cross-references	Page	Art.No.	Name Type
	394	246115	Detector Base/RF/200AP B501RF
	384	249210	Lithium Battery 3V CR123/10

249352 Dongle/LITE/S200AP/RF M200WC-RF

The RF dongle is designed to link a notebook to the RF system Series 200AP-RF. The dongle is plugged into a free USB interface of the PC. The LITE licence of the software Agile IQ can be used to parameterise the RF system and to analyse the radio transmission (e.g., field strength).



Features:

- Multicoloured status LED

Specifications:

Energy supply	through the USB interface of the PC
Operating voltage typ.	5 VDC
Current consumption typ.	33 mA at 5 V
Frequency band	868 MHz
Radio transmission range (free air)	130 m
Ambient temperature	from 0 °C to 50 °C
Dimensions L × W × H	96 × 31 × 13 mm
Weight	20 g
Colour	white

249353 Dongle/PRO/S200AP/RF M200WC-RF-PRO

The RF Dongle with PRO licence is designed to link a notebook to the RF system Series 200AP-RF. The dongle is plugged into a free USB interface of the PC.

The PRO licence of the software Agile IQ allows you to carry out the same functions as the LITE licence, i.e., it can be used to parameterise the RF system and to analyse the radio transmission. However, the PRO licence offers the following additional functions:

- Data backup in the M200G-RF – uploading and reading out the entire configuration
- Setting of advanced parameters of the RF system
- Creation of reports in the pdf format



Specifications:

Energy supply	through the USB interface of the PC
Operating voltage typ.	5 VDC

241140 Optical Detector/200AP/RF 22051E-RF

The wireless optical smoke detector operates with an optical sensing chamber based on the scattered light principle. The new design of the chamber ensures optimum smoke detection and, at the same time, makes it more difficult for dust and insects to reach the chamber. The detector communicates with the fire detection control panel via the Loop RF Interface M200G-RF. Thanks to the use of the Mesh technology, a failure of the direct radio connection between the detector and the RF interface will lead to an automatic switch-over to an alternative communication path via other elements of the RF system. In the parameter setup of the detector, one of three sensitivity levels can be selected, thereby adapting the detector optimally to the respective application.

The detector accommodates 4 batteries which are individually monitored and which reliably power the detector over the entire battery life. The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector as well as further operating conditions.

The wireless detector is particularly suitable for applications where cabling is impossible or uneconomical. The detector is integrated in a white housing and is designed for indoor mounting. The 4 batteries are included in the delivery, the Detector Base B501RF must be ordered separately.



Features:

- Insect screen
- Function can be tested by means of magnet or test gas
- Mesh technology for highest reliability of radio connection
- Long battery life of up to 4 years
- 2 antennas for optimum signal quality
- High range of radio transmission
- Mechanical theft protection can be activated in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Energy supply	4 lithium batteries
Battery type	CR123
Battery lifespan	4 years
Frequency band	868 MHz
Radio transmission range (free air)	500 m
Protection class	IP40
Ambient temperature	from -30 °C to 40 °C
Sensitivity opt. sensor	Level 1: 3.0 %/m Level 2: 3.3 %/m Level 3: 3.7 %/m
Dimensions Ø × H	104 × 52 mm
Height with standard base	62 mm
Weight (without batteries and base)	132 g
Colour	white
Approval number CPR	0333-CPR-075561
Approval number VdS	G 217068

Cross-references	Page	Art.No.	Name Type
	385	249350	RF Interface/S200API M200G-RF
	386	249351	RF Repeater/S200AP M200F-RF
	394	246115	Detector Base/RF/200AP B501RF
	384	249210	Lithium Battery 3V CR123/10

241141 Multicriteria Detector PTIR/200AP/RF 22051TLE-RF

The wireless multi-criteria detector contains three separate detection units for three characteristics of fire: smoke, temperature and infrared radiation. The optical smoke sensor is based on the principle of scattered light and detects visible smoke particles. The thermal unit reacts to temperature changes within defined periods of time (rate-of-rise principle according to Class A1R) as well as to a maximum temperature of 58 °C. The infrared sensor detects the infrared signature of flames and supports the detection of fires with little smoke formation (e.g., alcohol fire).



Through an intelligent analysis of the measured values obtained from all three detection units, the typical fire patterns are detected. Thereby, on the one hand, deceptive alarms can be almost entirely excluded when noise levels occur (caused for example by welding or a dusty environment). On the other hand, a real fire is quickly and reliably detected.

The response sensitivity of the optical sensor can be individually adjusted by selecting one of five levels between 2.0 %/m and 4.7 %/m, depending on the detection task. The alarm activation is accelerated or delayed by the sophisticated evaluation of the measured values obtained from all sensors. A thermal-only operation is also possible.

The detector communicates with the fire detection control panel via the Loop RF Interface M200G-RF. Thanks to the use of the Mesh technology, a failure of the direct radio connection between the detector and the RF interface will lead to an automatic switch-over to an alternative communication path via other elements of the RF system.

The detector accommodates 4 batteries which are individually monitored and which reliably power the detector over the entire battery life. The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector as well as further operating conditions.

The wireless detector is particularly suitable for applications where cabling is impossible or uneconomical. The detector is integrated in a white housing and is designed for indoor mounting. In the thermal-only mode the detector must not be used if the room height exceeds 7.5 m. The 4 batteries are included in the delivery, the Detector Base B501RF must be ordered separately.

Features:

- Insect screen
- Function can be tested with magnet or detector test device
- Mesh technology for highest reliability of radio connection
- Long battery life of up to 4 years
- 2 antennas for optimum signal quality
- High range of radio transmission
- Mechanical theft protection can be activated in the base

- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Energy supply	4 lithium batteries
Battery type	CR123
Battery lifespan	4 years
Frequency band	868 MHz
Radio transmission range (free air)	500 m
Relative humidity (no condensation)	from 10 % to 93 %
Protection class	IP20
Ambient temperature	from -30 °C to 50 °C
Alarm temperature max.	58 °C
Dimensions Ø × H	104 × 62 mm
Height with standard base	72 mm
Weight (without batteries and base)	136 g
Colour	white
Approval number CPR	0333-CPR-075487
Approval number VdS	G 217067

Cross-references	Page	Art.No.	Name Type
	385	249350	RF Interface/S200API M200G-RF
	386	249351	RF Repeater/S200AP M200F-RF
	394	246115	Detector Base/RF/200AP B501RF
	384	249210	Lithium Battery 3V CR123/10

242140 Thermal Max Detector/200APA1S/RF 52051E-RF

The wireless thermal detector operates with a thermal unit according to EN 54-5 Class A1S. The detector communicates with the fire detection control panel via the Loop RF Interface M200G-RF. Thanks to the use of the Mesh technology, a failure of the direct radio connection between the detector and the RF interface will lead to an automatic switch-over to an alternative communication path via other elements of the RF system.

The detector accommodates 4 batteries which are individually monitored and which reliably power the detector over the entire battery life. The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector as well as further operating conditions.

The wireless detector is particularly suitable for applications where cabling is impossible or uneconomical. The detector is integrated in a white housing and is designed for indoor mounting. The 4 batteries are included in the delivery, the Detector Base B501RF must be ordered separately.



Features:

- Function testing by means of magnet or tester for thermal detectors
- Mesh technology for highest reliability of radio connection
- Long battery life of up to 4 years
- 2 antennas for optimum signal quality
- High range of radio transmission
- Mechanical theft protection can be activated in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Energy supply	4 lithium batteries
Battery type	CR123
Battery lifespan	4 years
Frequency band	868 MHz
Radio transmission range (free air)	500 m
Protection class	IP20
Ambient temperature	from -30 °C to 50 °C
Alarm temperature	58 °C
Dimensions Ø × H	104 × 60 mm
Height with standard base	70 mm

Weight (without batteries and base)	124 g
Colour	white
Approval number CPR	0333-CPR-075490
Approval number VdS	G 217070

Cross-references	Page	Art.No.	Name Type
	385	249350	RF Interface/S200API M200G-RF
	386	249351	RF Repeater/S200AP M200F-RF
	394	246115	Detector Base/RF/200AP B501RF
	384	249210	Lithium Battery 3V CR123/10

242141 Thermal Diff Detector/200AP/A1R/RF 52051RE-RF

The design of the wireless thermal detector 52051RE-RF is identical with that of the wireless fire detector 52051E-RF, but the characteristic of the thermal unit of the 52051RE-RF corresponds to EN 54-5 Class A1R.

Features:

- Function testing by means of magnet or tester for thermal detectors

Specifications:

Protection class	IP20
Alarm temperature	58 °C
Dimensions Ø × H	104 × 60 mm
Weight (without batteries and base)	124 g
Approval number CPR	0333-CPR-075493
Approval number VdS	G 217069

245140 Manual Call Point/Red/S200AP/RF R5A-RF

The wireless manual call point according to EN 54-11 / type A is accommodated in a red plastic housing and communicates with the fire detection control panel via the Loop RF Interface M200G-RF. Thanks to the use of the Mesh technology, a failure of the direct radio connection between the device and the RF interface will lead to an automatic switch-over to an alternative communication path via other elements of the RF system. The manual call point accommodates 4 batteries which are individually monitored and which reliably power the device over the entire battery life. The multicoloured LED indicates the activated condition of the device as well as further operating conditions. The wireless device is particularly suitable for applications where cabling is impossible or uneconomical. The mounting box, the 4 batteries as well as the special key are included in the delivery.



Features:

- Activation by breaking the glass plate
- Easy to replace glass plate
- Call point housing can be opened with a special key (included)
- Mesh technology for highest reliability of radio connection
- Long battery life of up to 4 years
- 2 antennas for optimum signal quality
- High range of radio transmission
- Operating instructions in the form of symbols (EN 54-11)
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Energy supply	4 lithium batteries 3 V
Battery type	CR123
Battery lifespan	4 years
Frequency band	868 MHz
Radio transmission range (free air)	500 m
Protection class	IP67

Ambient temperature	from -30 °C to 70 °C
Dimensions W × H × D	99 × 94 × 71 mm
Weight (without batteries, with mounting box)	250 g
Colour	red
Approval number CPR	0333-CPR-075496

Cross-references	Page	Art.No.	Name	Type
	385	249350	RF Interface/S200API	M200G-RF
	384	249210	Lithium Battery 3V	CR123/10

251030 Remote Indicator/200AP/RF M200I-RF

The RF Remote Indicator M200I-RF is designed for the remote indication of a detector activation in the wireless fire detection system 200AP-RF. Since the activation can be freely parameterised, the remote indicator can indicate the activation of up to four detectors. The indicator communicates with a fire detection control panel in loop technology (System Sensor protocol) via the Loop RF Interface M200G-RF. The remote indicator does not occupy a loop address, the decadic rotary switches are only needed for commissioning. The RF remote indicator is particularly suitable for applications where cabling is impossible or uneconomical. The indicator is integrated in a white housing and is designed for indoor mounting. Both batteries are included in the delivery.



Features:

- High range of radio transmission
- Plastic case with clear cap, bright red LED

Specifications:

Energy supply	2 lithium batteries
Battery type	CR123
Battery lifespan	5 years
Frequency band	868 MHz
Radio transmission range (free air)	200 m
Protection class	IP30
Ambient temperature	from -10 °C to 60 °C
Dimensions W × H × D	51 × 94 × 37 mm
Weight	67 g
Colour	white

Cross-references	Page	Art.No.	Name	Type
	385	249350	RF Interface/S200API	M200G-RF
	386	249351	RF Repeater/S200AP	M200F-RF
	384	249210	Lithium Battery 3V	CR123/10

249355 Module 1xSurv.In 1xOut/200AP M211E-RF

The wireless control module provides a line-monitored input for the connection of contact detectors as well as a monitored output. By means of the input, manual call points, sprinkler system contacts or supervising contacts can be easily integrated into a wireless fire detection system. The output can be converted into a dry relay output by means of the configuration software AgileIQ. It can be used to actuate external devices (e.g., fire controls).

The module communicates with the fire detection control panel via the Loop RF Interface M200G-RF. Thanks to the use of the Mesh technology, a failure of the direct radio connection between the module and the RF interface will lead to an automatic switch-over to an alternative communication path via other elements of the RF system.

The module's housing accommodates 4 batteries which are individually monitored and which reliably power the module over the entire battery life. The multicoloured LED indicates the system conditions of the module.



The wireless module is particularly suitable for applications where cabling is impossible or uneconomical. The delivery scope includes 4 batteries as well as the mounting box.

Features:

- Mesh technology for highest reliability of radio connection
- Long battery life of typ. 4 years
- High range of radio transmission
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Energy supply	4 lithium batteries
Battery type	CR123
Battery lifespan	4 years
Frequency band	868 MHz
Radio transmission range (free air)	500 m
Relative humidity (no condensation) max.	95 %
Protection class	IP20
Ambient temperature	from -20 °C to 60 °C (no icing)
Dimensions L × W × H	125 × 125 × 58 mm
Weight (without batteries)	250 g
Approval number CPR	0333-CPR-075600

Cross-references	Page	Art.No.	Name Type
	385	249350	RF Interface/S200API M200G-RF
	386	249351	RF Repeater/S200AP M200F-RF
	384	249210	Lithium Battery 3V CR123/10

355274 Sounder/WM/200AP/RF/red WSO-RR-RF

The wireless sounder communicates with the fire detection control panel via the Loop RF Interface M200G-RF. Thanks to the use of the Mesh technology, a failure of the direct radio connection between a detector and the RF interface will lead to an automatic switch-over to an alternative communication path via other elements of the RF system.

The sounder accommodates four batteries which are individually monitored and which reliably power the sounder over the entire battery life. Depending on the parameter setup of the fire detection control panel and the system condition, the control panel can activate the sounder with tone A or B. The tone type of tones A and B is set by means of the configuration software Agile IQ; you can choose from among 32 combinations. One of three sound levels can be selected by means of the software.

The wireless sounder is particularly suitable for applications where cabling is impossible or uneconomical. The sounder is integrated in a red plastic housing and is suitable for indoor mounting. The 4 batteries are included in the delivery, the base B501RF must be ordered separately.



Features:

- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 800 Hz)
- Mesh technology for highest reliability of radio connection
- Long battery life of up to 4 years
- 2 antennas for optimum signal quality
- High range of radio transmission
- Mechanical theft protection can be activated in the base
- 3 different sound levels selectable
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Energy supply	4 lithium batteries
Battery type	CR123
Battery lifespan	4 years
Frequency band	868 MHz
Radio transmission range (free air)	500 m

Protection class	IP21
Ambient temperature	from -30 °C to 60 °C
Sound level max.	102 dB(A)/1 m
Dimensions Ø × D	121 × 66 mm
Weight (without batteries and base)	245 g
Colour	red
Approval number CPR	0359-CPR-00819

Cross-references	Page	Art.No.	Name Type
	385	249350	RF Interface/S200API M200G-RF
	386	249351	RF Repeater/S200AP M200F-RF
	395	246116	Detector Base/RF/200AP B501RF-RR
	384	249210	Lithium Battery 3V CR123/10

355275 Sounder/WM/200AP/RF/white WSO-WW-RF

The wireless sounder WSO-WW-RF is identical with the Sounder WSO-RR-RF, but it is accommodated in a white plastic housing.

Specifications:

Protection class	IP21
Sound level max.	102 dB(A)/1 m
Dimensions Ø × D	121 × 66 mm
Weight (without batteries and base)	245 g



356160 Sounder-Strobe/WM/S200AP/red/clear/red/W WSF-RR-RF

The wireless sounder-strobe communicates with the fire detection control panel via the Loop RF Interface M200G-RF. Thanks to the use of the Mesh technology, a failure of the direct radio connection between a detector and the RF interface will lead to an automatic switch-over to an alternative communication path via other elements of the RF system.

The sounder-strobe accommodates four batteries which are individually monitored and which reliably power the signalling device over the entire battery life. Depending on the parameter setup of the fire detection control panel and the system condition, the control panel can activate the sounder with tone A or B. The tone type of tones A and B is set by means of the configuration software Agile IQ; you can choose from among 32 combinations. One of three sound levels can be selected by means of the software. The strobe has been tested according to EN 54-23 Class W (wall). It can be activated together with the sounder or separately. The wireless sounder-strobe is particularly suitable for applications where cabling is impossible or uneconomical. The signalling device is integrated in a red plastic housing and is suitable for indoor mounting. The 4 batteries are included in the delivery, the base B501RF must be ordered separately.



Features:

- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 800 Hz)
- Red very high-performance LEDs
- Mesh technology for highest reliability of radio connection
- Long battery life of up to 4 years
- 2 antennas for optimum signal quality
- High range of radio transmission
- Mechanical theft protection can be activated in the base
- 3 different sound levels selectable
- Joint or separate activation of sounder and strobe
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications:

Energy supply	4 lithium batteries
Battery type	CR123
Battery lifespan	4 years

Frequency band	868 MHz
Radio transmission range (free air)	500 m
Protection class	IP21
Ambient temperature	from -30 °C to 60 °C
Sound level max.	102 dB(A)/1 m
Strobe frequency	0.5 Hz
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	W-3.5-10 – wall mounting
Mounting height max.	3.5 m
Illuminated area	10 × 10 m
Dimensions Ø × D	121 × 88 mm
Weight (without batteries and base)	315 g
Colour	red
Approval number CPR	0905-CPR-201262

Cross-references	Page	Art.No.	Name Type
	385	249350	RF Interface/S200API M200G-RF
	386	249351	RF Repeater/S200AP M200F-RF
	395	246116	Detector Base/RF/200AP B501RF-RR
	384	249210	Lithium Battery 3V CR123/10

356161 Sounder-Strobe/WM/S200AP/white/clear/red/W WSF-WR-RF

The wireless sounder-strobe WSF-WR-RF is identical with the Sounder-Strobe WSF-RR-RF, but it is accommodated in a white plastic housing.

Specifications:

Protection class	IP21
Sound level max.	102 dB(A)/1 m
Colour of lens/cap	clear
Light colour	red
Category EN 54-23	W-3.5-10 – wall mounting
Mounting height max.	3.5 m
Illuminated area	10 × 10 m
Dimensions Ø × D	121 × 88 mm
Weight (without batteries and base)	315 g
Approval number CPR	0905-CPR-201262



246115 Detector Base/RF/200AP B501RF

The wireless detector base B501RF is designed to accommodate automatic wireless fire detectors, wireless sounders as well as the RF Repeater Series 200AP-RF. The base is designed for indoor surface mounting.

Features:

- Mechanical theft protection can be activated
- Integrated magnet allows the RF component to detect its removal from the base

Specifications:

Dimensions Ø × H	104 × 32 mm
Weight	48 g
Colour	white



246116 Detector Base/RF/200AP B501RF-RR

The red wireless detector base B501RF-RR is designed to accommodate a red wireless sounder Series 200AP-RF. The base is designed for indoor surface mounting.

Features:

- Mechanical theft protection can be activated
- Integrated magnet allows the RF component to detect its removal from the base

Specifications:

Dimensions Ø × H	104 × 32 mm
Weight	48 g
Colour	red



249210 Lithium Battery 3V CR123/10

New

The 3 V battery is used for powering automatic wireless detectors, wireless manual call points, wireless modules and wireless signalling devices Series FI7x0/RF and 200AP-RF.

One packing unit contains 10 pieces.

Features:

- High quality lithium battery
- Low self-discharge
- Long lifespan
- Shelf life min. 5 years

Specifications:

Battery capacity min.	1200 mAh
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13 Special Fire Detectors



100602
Type 6295
ENCLOSED
HEAT DETECTOR
DC 12-30V max. 10mA
COMPLYING WITH
EN54-9 CLASS A2S
100602
MADE IN JAPAN
Mfg. No. 914-0055
ELECTRICAL HAZARD
DO NOT CLEAN BY RUBBING OR
USE OF CLEANING AGENTS
8-009 E&K 1A II TS 1100°C
100602 100602
Panasonic
CE
ELECTRICAL HAZARD
DO NOT CLEAN BY RUBBING OR
USE OF CLEANING AGENTS
8-009 E&K 1A II TS 1100°C
100602 100602

13.1 Thermal Detectors

242150 Thermal Detector/IP67/Conv/MAX/A2S 6295

The maximum heat detector uses a bimetal element as thermal sensor and has been tested according to EN 54-5 Class A2S. If the alarm temperature is reached, the bimetal contact is closed. An activation will be stored until the detector is reset by the fire detection control panel.

Conventional technology is used for alarm transmission to the fire detection control panel. The activated condition of the detector is indicated by an integrated LED. A conventional zone module allows connection to a loop.

The detector is integrated in a plastic housing and is suitable for application

in moist areas (e.g., loading ramps, production areas, food processing) as well as in intrinsically safe areas.



Features:

- Alarm LED on detector housing
- Terminal for external remote indicator
- 3 cable glands for dust and water proof insertion of the connection cables

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	0 µA (quiescent)
Alarm current max.	40 mA
Alarm resistance	400 Ohm
Ex classification	Ex II 3 G Ex ic IIC T5 Gc Ex II 3 D Ex ic IIIC T100 °C Dc
Ignition protection	intrinsically safe
Protection class	IP67
Ambient temperature	from -40 °C to 50 °C
Alarm temperature	57 °C
Dimensions Ø × H	100 × 75 mm
Weight	215 g
Colour	light grey
Approval number CPR	2531-CPD-0232.1192
Approval number VdS	G 223021

Cross-references	Page	Art.No.	Name Type
	361	228003	Safety Barrier ES58-2

242151 Thermal Detector/IP67/Conv/MAX/BS 6296

The maximum heat detector uses a bimetal element as thermal sensor and has been tested according to EN 54-5 Class BS. If the alarm temperature is reached, the bimetal contact is closed. An activation will be stored until the detector is reset by the fire detection control panel.

Conventional technology is used for alarm transmission to the fire detection control panel. The activated condition of the detector is indicated by an integrated LED. A conventional zone module allows connection to a loop.

The detector is integrated in a plastic housing and is suitable for application

in moist areas (e.g., loading ramps, production areas, food processing) as well as in intrinsically safe areas.



Features:

- Alarm LED on detector housing
- Terminal for external remote indicator
- 3 cable glands for dust and water proof insertion of the connection cables

Specifications:

Operating voltage	supplied through detector line voltage
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Current consumption typ.	0 µA (quiescent)
Alarm current max.	40 mA
Alarm resistance	400 Ohm
Ex classification	Ex II 3 G Ex ic IIC T5 Gc Ex II 3 D Ex ic IIIC T100 °C Dc
Ignition protection	intrinsically safe
Protection class	IP67
Ambient temperature	from -40 °C to 65 °C
Alarm temperature	72 °C
Dimensions Ø × H	100 × 75 mm
Weight	215 g
Colour	light grey
Approval number CPR	2531-CPD-0232.1193
Approval number VdS	G 223022

Cross-references	Page	Art.No.	Name Type
	361	228003	Safety Barrier ES58-2

242152 Thermal Detector/IP67/Conv/MAX/CS 6297

The maximum heat detector uses a bimetal element as thermal sensor and has been tested according to EN 54-5 Class CS. If the alarm temperature is reached, the bimetal contact is closed. An activation will be stored until the detector is reset by the fire detection control panel.

Conventional technology is used for alarm transmission to the fire detection control panel. The activated condition of the detector is indicated by an integrated LED. A conventional zone module allows connection to a loop. The detector is integrated in a plastic housing and is suitable for application in moist areas (e.g., loading ramps, production areas, food processing).



Features:

- Alarm LED on detector housing
- Terminal for external remote indicator
- 3 cable glands for dust and water proof insertion of the connection cables

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	0 µA (quiescent)
Alarm current max.	40 mA
Alarm resistance	400 Ohm
Protection class	IP67
Ambient temperature	from -40 °C to 80 °C
Alarm temperature	87 °C
Dimensions Ø × H	100 × 75 mm
Weight	215 g
Colour	light grey
Approval number CPR	0845-CPD-0232.1194
Approval number VdS	G 223023

242153 Thermal Detector/IP67/Conv/MAX/ES 6298

The maximum heat detector uses a bimetal element as thermal sensor and has been tested according to EN 54-5 Class ES. If the alarm temperature is reached, the bimetal contact is closed. An activation will be stored until the detector is reset by the fire detection control panel.

Conventional technology is used for alarm transmission to the fire detection control panel. A conventional zone module allows connection to a loop. The detector is integrated in a plastic housing and is suitable for application in moist areas (e.g., loading ramps, production areas, food processing).



Features:

- Terminal for external remote indicator
- 3 cable glands for dust and water proof insertion of the connection cables

Specifications:

Operating voltage	supplied through detector line voltage
Current consumption typ.	0 µA (quiescent)
Alarm current max.	30 mA
Alarm resistance	680 Ohm
Protection class	IP67
Ambient temperature	from -40 °C to 110 °C
Alarm temperature	117 °C
Dimensions Ø × H	100 × 75 mm
Weight	215 g
Colour	light grey
Approval number CPR	0845-CPD-0232.1195
Approval number VdS	G 223024

242170 Thermal Detector/IP67/Conv/MAX/135°C HT-27121-275

The maximum heat detector with additional differential characteristic uses a bimetal element as thermal sensor. If the alarm temperature is reached, the bimetal contact is closed. Alarms are transmitted to the fire detection control panel via a conventional line. A conventional zone module allows connection to a loop.

The detector is integrated in an aluminium die-cast housing and is suitable for application in areas where temperatures above 100 °C can occur during normal operation (e.g., sauna, production areas with high heat generation).



Features:

- Self-resetting bimetal contact
- Metal PG screw connections for water proof insertion of the connection cables

Specifications:

Contact rating	2 A / 24 VDC
Protection class	IP67
Alarm temperature	135 °C
Dimensions W × H × D	80 × 75 × 55 mm
Dimensions Sensor Ø × L	16 × 156 mm
Weight	590 g
Colour	silver grey
Approval number CPR	1415-CPR-81-(C-36/2018)

242016 Thermal Detector/IP54/135°C 12-X27021-001-275

New

The maximum heat detector with additional differential characteristic uses a bimetal element as thermal sensor. If the alarm temperature is reached, the bimetal contact is closed. Alarms are transmitted to the fire detection control panel via a conventional line. A conventional zone module allows connection to a loop.

The detector is integrated in a surface-mount housing and is suitable for application in areas where temperatures above 100 °C can occur during normal operation (e.g., sauna, production areas with high heat generation).



Features:

- Self-resetting bimetal contact

Specifications:

Contact rating	2 A / 24 VDC
Protection class	IP54
Alarm temperature	135 °C
Dimensions Ø × H	118 × 50 mm
Weight	270 g
Colour	cream

242180 Thermal Detector/IP67/Max/RoR WMX5000-FS

The high temperature heat detector is designed for use in industrial environments with aggressive media and very high application temperatures. Therefore the detector can be used in areas where temperatures of more than 100 °C can occur during normal operation (e.g., saunas, production areas with high heat generation, exhaust gas ducts, motor test stands).



The response temperature and class according to EN 54-5 as well as the characteristic – maximum heat detector or rate-of-rise heat detector – can be set by means of a DIL switch in the detector. Conventional technology is used for alarm transmission to the fire detection control panel. For the connection to a loop input module, the relay module KMX5000 is required, which is available separately.

The detector is integrated in an aluminium die-cast housing, the rod-shaped heat sensor is made of stainless steel. The optional Detector Base MX5000 is equipped with two threaded cable glands and terminals.

Features:

- Status indicated by 2 LEDs on the detector housing

Specifications:

Operating voltage	from 8 VDC to 30 VDC
Current consumption typ.	250 µA (at 24 V, quiescent)
Current consumption max.	15 mA (alarm)
Protection class	IP67
Ambient temperature	from -20 °C to 80 °C
Alarm temperature typ.	up to 400 °C
Response class EN 54-5	A1, A2, B, C, D, E, F, G each class with ...S and ...R
Dimensions Sensor rod (length)	200 mm
Height with standard base	85 mm
Weight	680 g
RAL colour	flame red, RAL 3000
Approval number CPR	0786-CPR-21767
Approval number VdS	G 221019

Cross-references	Page	Art.No.	Name Type
	402	246180	Detector Base/5000 MX5000
	402	242181	Relay Module for Thermal Detector KMX5000-RK
	403	249156	Mounting Bracket MX5000 for special detectors 904757

242185 Thermal Detector/IP67/Max/RoR WMX5000

The high temperature heat detector is designed for use in industrial environments with aggressive media and very high ambient temperatures. Only the sensing element may be subjected to the application temperature.

The response temperature and class according to EN 54-5 as well as the characteristic – maximum heat detector or rate-of-rise heat detector – can be set by means of a DIL switch in the detector. Conventional technology is used for alarm transmission to the fire detection control panel. For the connection to a loop input module, the relay module KMX5000 is required, which is available separately. The detector is integrated in an aluminium die-cast housing, the rod-shaped heat



sensor is made of stainless steel. The optional Detector Base MX5000 is equipped with two threaded cable glands and terminals.

Features:

- Status indicated by 2 LEDs on the detector housing

Specifications:

Operating voltage	from 8 VDC to 30 VDC
Current consumption typ.	250 µA (at 24 V, quiescent)
Current consumption max.	15 mA (alarm)
Protection class	IP67
Ambient temperature	from -20 °C to 80 °C
Alarm temperature typ.	Up to 105 °C
Response class EN 54-5	A1, A2, B, C, D, E, F, G each class with ...S and ...R
Dimensions	39 mm Sensor rod (length)
Height with standard base	85 mm
Weight	850 g
RAL colour	flame red, RAL 3000
Approval number CPR	0786-CPR-21766
Approval number VdS	G 221018

Cross-references	Page	Art.No.	Name Type
	402	246180	Detector Base/5000 MX5000
	402	242181	Relay Module for Thermal Detector KMX5000-RK
	403	249156	Mounting Bracket MX5000 for special detectors 904757

242181 Relay Module for Thermal Detector KMX5000-RK

The relay module is designed for installation in the Detector Base MX5000 of a high temperature heat detector WMX5000. The module contains one dry contact each for transmitting the alarm condition and the fault condition via a loop input module to the fire detection control panel.

Specifications:

Operating voltage	from 14 VDC to 30 VDC
Current consumption typ.	7 mA (at 24 V, quiescent)
Current consumption max.	20 mA (alarm)
Contact rating	1 A / 60 VDC
Ambient temperature	from -20 °C to 80 °C
Dimensions L × W × H	64 × 57 × 24 mm
Weight	50 g
Approval number CPR	0786-CPR-20314
Approval number VdS	G 221020

246180 Detector Base/5000 MX5000

The aluminium die-cast detector base is screwed together with the high temperature heat detector WMX5000, after which the two devices form a single unit. The base is provided with two cable glands M16 for the dust and water proof insertion of cables, and with terminals. The base provides space for the relay module KMX5000.

Specifications:

Dimensions Ø × H	130 × 85 mm
Weight	310 g
RAL colour	flame red, RAL 3000

249156 Mounting Bracket MX5000 for special detectors 904757

The stainless steel mounting bracket is used for mounting a special detector Series xMX5000 and for the horizontal and vertical adjustment to the monitoring area.

Specifications:

Weight 110 g



13.2 Flame Detectors

243030 Flame Detector/IR FMX5000IR

The flame detector responds to the flickering infrared radiation of open flames and is, therefore, ideally suited for the detection of fires with low smoke development – for example, alcoholic fires or gas flames. By means of three independent infrared sensors for different wavelengths, the detector can safely distinguish between fire situations and deceptive variables. Therefore, it is insensitive to disturbance sources such as sunlight, fluorescent lamps or electric arcs. The detector complies with EN 54-10, Class 1, which means it is suitable for applications with a range of up to 25 m.



An optional relay module KMX5000-RK can be used to upgrade the detector with two dry relay contacts for alarm and fault condition. As a result, alarms are transmitted to the fire detection control panel in conventional technology, and the integration into a loop can be achieved by means of a conventional zone module.

The optional Mounting Bracket 904757 allows stepless horizontal and vertical adjustment of the detector for the easy adaptation to the required monitoring area.

The detector periodically checks the attenuation of the glass pane, as well as the detector's function, which is done by a built-in infrared source which simulates a fire situation.

The detector has been designed for indoor use.

Features:

- High immunity to deceptive alarms
- Can be used in conventional technology
- Connection to a loop via a conventional zone module
- Integrated optical self test function

Specifications:

Operating voltage	from 7.6 VDC to 30 VDC
Current consumption typ.	2.4 mA at 24 V (quiescent incl. Relay Module KMX500)
Current consumption max.	5 mA (start-up)
Protection class	IP66
Ambient temperature	from -20 °C to 80 °C
Dimensions W × H × D	130 × 140 × 92 mm
Weight	600 g
RAL colour	flame red, RAL 3000
Approval number CPR	0786-CPR-20784
Approval number VdS	G 217027

Cross-references	Page	Art.No.	Name Type
	402	246180	Detector Base/5000 MX5000
	402	242181	Relay Module for Thermal Detector KMX5000-RK
	403	249156	Mounting Bracket MX5000 for special detectors 904757

243031 Flame Detector/UV FMX5000UV

The flame detector responds to the UV components of open flames and is, therefore, extremely well suited for the detection of fires which are difficult to detect with common smoke detectors – for example, alcoholic fires or gas flames. The detector complies with EN 54-10, Class 1, which means it is suitable to detect flames up to a distance of 25 m.



The detector periodically checks the attenuation of the glass pane, as well as the detector's function, which is done by a built-in UV source which simulates a fire situation.

An optional relay module KMX5000-RK can be used to upgrade the detector with two dry relay contacts

for alarm and fault condition. As a result, alarms are transmitted to the fire detection control panel in conventional technology, and the integration into a loop can be achieved by means of a conventional zone module.

The optional Mounting Bracket 904757 allows stepless horizontal and vertical adjustment of the detector for the easy adaptation to the required monitoring area.

The detector has been designed for indoor use.

Features:

- High immunity to deceptive alarms
- Can be used in conventional technology
- Connection to a loop via a conventional zone module
- Integrated optical self test function

Specifications:

Operating voltage	from 7.6 VDC to 30 VDC
Current consumption typ.	0.35 mA at 24 V (quiescent incl. Relay Module KMX500)
Current consumption max.	5 mA (start-up)
Protection class	IP66
Ambient temperature	from -20 °C to 80 °C
Dimensions W × H × D	130 × 140 × 92 mm
Weight	600 g
RAL colour	flame red, RAL 3000
Approval number CPR	0786-CPR-20286
Approval number VdS	G 221017

Cross-references	Page	Art.No.	Name Type
	402	246180	Detector Base/5000 MX5000
	402	242181	Relay Module for Thermal Detector KMX5000-RK
	403	249156	Mounting Bracket MX5000 for special detectors 904757

249156 Mounting Bracket MX5000 for special detectors 904757

The stainless steel mounting bracket is used for mounting a special detector Series xMX5000 and for the horizontal and vertical adjustment to the monitoring area.



Specifications:

Weight	110 g
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243040 Flame Detector/IR3/IP55 20/20-MPI-R

With three independent infrared sensors for different wavelengths and with an intelligent evaluation logic, the detector can reliably distinguish between alarm situations and deceptive alarms. Therefore, it is particularly insensitive to disturbance sources such as sunlight, fluorescent lamps or electric arcs. The detector complies with EN 54-10, Class 1, which means it is suitable to detect flames up to a distance of 43 m.

The detector has 4 sensitivity ranges that can be selected by the user. For each range there are 2 response levels. The response delay of the detector can be set to one of four values between 5 and 10 s. An alarm and a fault condition is signalled via two dry relay contacts. Conventional technology is used for alarm transmission to the fire detection control panel. Integration into a loop can be achieved by means of a conventional zone module.



Features:

- Very high immunity to deceptive alarms
- Can be used in conventional technology
- Connection to a loop via a conventional zone module

- Detector mounting bracket and protective cover included in delivery

Specifications:

Operating voltage	from 18 VDC to 32 VDC
Current consumption typ.	8 mA (at 24 V, quiescent)
Current consumption max.	40 mA (alarm)
Contact rating	2 A / 30 VDC
Protection class	IP55
Ambient temperature	from -40 °C to 70 °C
Dimensions W × H × D	112,73 × 150 × 70,2 mm
Weight	300 g
Weight Detector mounting bracket	70 g
Colour	grey white
RAL colour	grey white, RAL 9002
Approval number CPR	0786-CPR-21344
Approval number VdS	VdS G 213109

243041 Flame Detector/IR3/IP66 20/20-MI-11SF

With three independent infrared sensors for different wavelengths and with an intelligent evaluation logic, the detector can reliably distinguish between alarm situations and deceptive alarms. With the very high immunity to false alarms, the flame detector can be used in a huge number of industrial and commercial facilities, in which there is a danger of fire that is caused by an accidental event which involves hydrocarbon fuels.

The detector complies with EN 54-10 and detects flames up to a distance of 40 m.

The detector has 4 sensitivity ranges that can be selected by the user. For each range there are 2 response levels. The response delay of the detector can be set to one of four values between 5 and 10 s. An alarm and a fault condition is signalled via two dry relay contacts. Conventional technology is used for alarm transmission to the fire detection control panel. Integration into a loop can be achieved by means of a conventional zone module.



Features:

- Very high immunity to deceptive alarms
- Can be used in conventional technology
- Connection to a loop via a conventional zone module
- Integrated optical self test function

Specifications:

Operating voltage	from 18 VDC to 32 VDC
Current consumption typ.	25 mA (at 24 V, quiescent)
Current consumption max.	50 mA (alarm)
Contact rating	2 A / 30 VDC
Connections	by means of connection cable that is 2 m long
Protection class	IP66
Ambient temperature	from -40 °C to 70 °C
Dimensions W × H × D	124 × 123,5 × 62,5 mm
Weight	1.2 kg
Weight Detector mounting bracket	370 g
Approval number CPR	0786-CPR-20916
Approval number VdS	G 207073

Cross-references	Page	Art.No.	Name Type
	407	249160	Mounting Bracket/Stainless Steel 787639
	407	249161	Weather Shield Mini Stainless Steel 20/20 787980-SP
	408	249162	Air Shield Stainless Steel 20/20 787960

243044 Flame Detector/IR3/IP66 20/20-MI-12SF

With three independent infrared sensors for different wavelengths and with an intelligent evaluation logic, the detector can reliably distinguish between alarm situations and deceptive alarms. With the very high immunity to false alarms, the flame detector can be used in a huge number of industrial and commercial facilities, in which there is a danger of fire that is caused by an accidental event which involves hydrocarbon fuels.

The detector complies with EN 54-10 and detects flames up to a distance of 40 m.

The detector has 4 sensitivity ranges that can be selected by the user. For each range there are 2 response levels. The response delay of the detector can be set to one of four values between 5 and 10 s. An alarm and a fault condition is signalled via two dry relay contacts. Conventional technology is used for alarm transmission to the fire detection control panel. Integration into a loop can be achieved by means of a conventional zone module.



Features:

- Very high immunity to deceptive alarms
- Can be used in conventional technology
- Connection to a loop via a conventional zone module
- Integrated optical self test function
- Unsurpassed reliability – 100,000 hours MTBF

Specifications:

Operating voltage	from 18 VDC to 32 VDC
Current consumption typ.	25 mA (at 24 V, quiescent)
Current consumption max.	50 mA (alarm)
Contact rating	2 A / 30 VDC
Connections	Required counter plug is included
Protection class	IP66
Ambient temperature	from -40 °C to 70 °C
Dimensions W × H × D	124 × 118,5 × 62,5 mm
Weight	1.2 kg
Weight Detector mounting bracket	370 g
Approval number CPR	0786-CPR-20916
Approval number VdS	G 207073

249160 Mounting Bracket/Stainless Steel 787639

The stainless steel mounting bracket is used for mounting a Flame Detector 20/20MI as well as for the stepless horizontal and vertical adjustment to the monitoring area. By means of the fastening device, the detector can be rotated by up to 60° in all directions.

Specifications:

Dimensions L × W × H	120 × 92 × 90 mm
Weight	450 g



249161 Weather Shield Mini Stainless Steel 20/20 787980-SP

The weather shield is made of stainless steel and provides additional protection for the Flame Detector 20/20MI against moisture caused by raining water and snow. The weather shield is easily mounted on the front of the flame detector.

Specifications:

Dimensions W × H × D	287 × 267 × 55 mm
Weight	90 g



249162 Air Shield Stainless Steel 20/20 787960

The special air shield, which has been developed for the optical flame detectors 20/20MI, allows installation under difficult environmental conditions, where they may be exposed to oil vapours, sand, dust and other particles.

Specifications:

Dimensions L × W × H	120 × 66 × 90 mm
Weight	1 kg



243045 Flame Detector/IR3/IP66/EX 40/40-D-I-6-31-AC-N

With three independent infrared sensors for different wavelengths and with an intelligent evaluation logic, the detector can reliably distinguish between alarm situations and deceptive alarms. With the very high immunity to false alarms, the flame detector can be used in a huge number of industrial and commercial facilities, in which there is a danger of fire that is caused by an accidental event which involves hydrocarbon fuels.

The detector complies with EN 54-10 and detects flames up to a distance of 90 m.

The detector has 6 sensitivity levels that can be selected by the user. The response delay of the detector depends on the distance and is between 50 ms at 0.30 m and 10 s at 90 m. An alarm and a fault condition is signalled via two dry relay contacts. Conventional technology is used for alarm transmission to the fire detection control panel. Integration into a loop can be achieved by means of a conventional zone module.



Features:

- Ultra-fast alarm detection
- Very high immunity to deceptive alarms
- Can be used in conventional technology
- Connection to a loop via a conventional zone module
- Intelligent field of view integrity test
- Innovative integrated infrared test
- Unsurpassed reliability – 150,000 hours MTBF

Specifications:

Operating voltage	from 18 VDC to 32 VDC
Current consumption typ.	125 mA (at 24 V, quiescent)
Current consumption max.	175 mA (alarm)
Contact rating	2 A / 30 VDC
Connections	Terminals
Relative humidity (no condensation)	from 0 % to 100 %
Protection class	IP66
Ambient temperature	from -60 °C to 85 °C
Dimensions W × H × D	100,6 × 117 × 155 mm
Weight	1.3 kg
Weight Detector mounting bracket	1.1 kg
Casing material	Aluminium, polyurethane paint
Colour	red
Approval number ATEX	CSANe 20ATEX1249X

Cross-references	Page	Art.No.	Name Type
	354	249168	Weather Shield Stainless Steel 40/40 877163
	354	249167	Mounting Bracket/Stainless Steel 877090
	353	243046	Flame Detector/IR3/IP66/EX 40/40-D-I-6-31-SC-N

243046 Flame Detector/IR3/IP66/EX 40/40-D-I-6-31-SC-N

With three independent infrared sensors for different wavelengths and with an intelligent evaluation logic, the detector can reliably distinguish between alarm situations and deceptive alarms. With the very high immunity to false alarms, the flame detector can be used in a huge number of industrial and commercial facilities, in which there is a danger of fire that is caused by an accidental event which involves hydrocarbon fuels.

The detector complies with EN 54-10 and detects flames up to a distance of 90 m.

The detector has 6 sensitivity levels that can be selected by the user. The response delay of the detector depends on the distance and is between 50 ms at 0.30 m and 10 s at 90 m. An alarm and a fault condition is signalled via two dry relay contacts. Conventional technology is used for alarm transmission to the fire detection control panel. Integration into a loop can be achieved by means of a conventional zone module.



Features:

- Ultra-fast alarm detection
- Very high immunity to deceptive alarms
- Can be used in conventional technology
- Connection to a loop via a conventional zone module
- Intelligent field of view integrity test
- Innovative integrated infrared test
- Unsurpassed reliability – 150,000 hours MTBF

Specifications:

Operating voltage	from 18 VDC to 32 VDC
Current consumption typ.	125 mA (at 24 V, quiescent)
Current consumption max.	175 mA (alarm)
Contact rating	2 A / 30 VDC
Connections	Terminals
Relative humidity (no condensation)	from 0 % to 100 %
Protection class	IP66
Ambient temperature	from -60 °C to 85 °C
Dimensions W × H × D	100,6 × 117 × 155 mm
Weight	2.9 kg
Weight Detector mounting bracket	1.1 kg
Casing material	stainless steel
Approval number ATEX	CSANe 20ATEX1249X

Cross-references	Page	Art.No.	Name Type
	354	249168	Weather Shield Stainless Steel 40/40 877163
	354	249167	Mounting Bracket/Stainless Steel 877090
	353	243045	Flame Detector/IR3/IP66/EX 40/40-D-I-6-31-AC-N

249167 Mounting Bracket/Stainless Steel 877090

The tiltable support allows the detector to be mounted on flat wall surfaces. The horizontal and vertical locking screws allow the detector to be rotated by up to 60° in all directions, which ensures maximum effectiveness and precise adjustment of the area that is protected by the detector.

Specifications:

Dimensions W × H × D	76 × 91 × 143 mm
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249168 Weather Shield Stainless Steel 40/40 877163

The weather shield is made of stainless steel and protects the detector from extreme weather conditions such as heavy snow and rain as well as from extreme temperatures caused by the sun.

Specifications:

Dimensions Ø × H	120 × 106 mm
Weight	0.7 kg



243010 Flame Detector/IR2 16581

The flame detector responds to the flickering infrared radiation of open flames and is, therefore, ideally suited for the detection of fires with low smoke development – for example, alcoholic fires or gas flames. By means of two independent infrared sensors for different wavelengths, the detector can safely distinguish between fire situations and deceptive variables. Therefore, it is insensitive to disturbance sources such as sunlight, fluorescent lamps or electric arcs. The detector complies with EN 54-10, Class 1, which means it is suitable for applications with a range of up to 25 m.

The response delay can be selected in 4 steps between 1 and 8 s. The alarm and the fault condition are signalled via two dry relay contacts. The functioning of the detector can be checked by means of the integrated self test function. Here the detector is activated by a built-in source of infrared light.



Features:

- High immunity to deceptive alarms
- Can be used in conventional technology
- Connection to a loop via a conventional zone module
- Integrated optical self test function

Specifications:

Operating voltage	from 14 VDC to 30 VDC
Current consumption typ.	8 mA (at 24 V, quiescent)
Current consumption max.	14 mA (alarm)
Contact rating	1 A / 50 VDC
Protection class	IP65
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	108 × 142 × 82 mm
Weight	2 kg
RAL colour	sky blue, RAL 5015
Approval number CPR	2831-CPR-F0582
Approval number LPCB	1204a/10

Cross-references	Page	Art.No.	Name Type
	412	249141	Mounting Bracket/Flame Detector 07127
	412	249154	Weather Shield Stainless Steel for Flame Detectors 16xxx 12545

243011 Flame Detector/IR3 16589

The flame detector responds to the flickering infrared radiation of open flames and is, therefore, ideally suited for the detection of fires with low smoke development – for example, alcoholic fires or gas flames. By means of three independent infrared sensors for different wavelengths, the detector can safely distinguish between fire situations and deceptive variables. Therefore, it is particularly insensitive to disturbance sources such as sunlight, fluorescent lamps or electric arcs. The detector complies with EN 54-10, Class 1, which means it is suitable for applications with a range of up to 25 m.

The response delay can be selected in 4 steps between 1 and 8 s. The alarm and the fault condition are signalled via two dry relay contacts. The functioning of the detector can be checked by means of the integrated self test function. Here the detector is activated by a built-in source of infrared light.



Features:

- Very high immunity to deceptive alarms
- Can be used in conventional technology
- Connection to a loop via a conventional zone module
- Integrated optical self test function

Specifications:

Operating voltage	from 14 VDC to 30 VDC
Current consumption typ.	8 mA (at 24 V, quiescent)
Current consumption max.	14 mA (alarm)
Contact rating	1 A / 50 VDC
Protection class	IP65
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	108 × 142 × 82 mm
Weight	2 kg
RAL colour	sky blue, RAL 5015
Approval number CPR	2831-CPR-F0583
Approval number VdS	G 212189
Approval number LPCB	1204a/11

Cross-references	Page	Art.No.	Name Type
	412	249141	Mounting Bracket/Flame Detector 07127
	412	249154	Weather Shield Stainless Steel for Flame Detectors 16xxx 12545

243012 Flame Detector/UVIR2 16591

The flame detector responds to the flickering infrared radiation of open flames and is, therefore, ideally suited for the detection of fires with low smoke development – for example, alcoholic fires or gas flames. Thanks to the combination of two independent infrared sensors for different wavelengths and an UV sensor, the detector can particularly safely distinguish between fire situations and deceptive variables. Therefore, it is extremely insensitive to disturbance sources such as sunlight, fluorescent lamps or electric arcs. The detector complies with EN 54-10, Class 1, which means it is suitable for applications with a range of up to 25 m.

The response delay can be selected in 4 steps between 1 and 8 s. The alarm and the fault condition are signalled via two dry relay contacts. The functioning of the detector can be checked by means of the integrated self test function. Here the detector is activated by a built-in source of infrared and UV light.



Features:

- Highest immunity to deceptive alarms
- Can be used in conventional technology
- Connection to a loop via a conventional zone module
- Integrated optical self test function

Specifications:

Operating voltage	from 14 VDC to 30 VDC
Current consumption typ.	8 mA (at 24 V, quiescent)
Current consumption max.	14 mA (alarm)
Contact rating	1 A / 50 VDC
Protection class	IP65
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	108 × 142 × 82 mm
Weight	2 kg
RAL colour	sky blue, RAL 5015
Approval number CPR	2831-CPR-F0584
Approval number VdS	G 212190
Approval number LPCB	1204a/12

Cross-references	Page	Art.No.	Name Type
	412	249141	Mounting Bracket/Flame Detector 07127
	412	249154	Weather Shield Stainless Steel for Flame Detectors 16xxx 12545

249141 Mounting Bracket/Flame Detector 07127

The stainless steel mounting bracket is used for mounting a Flame Detector Series 16000 and for the stepless horizontal and vertical adjustment to the monitoring area. The vertical adjustment range is 0 to -45° and the horizontal one is ±45°.



Specifications:

Dimensions L × W × H	82 × 98 × 90 mm
Pivoting range	from -45 ° to 45 °
Inclination angle	from 0 ° to -45 °
Weight	650 g

249154 Weather Shield Stainless Steel for Flame Detectors 16xxx 12545

The weather shield is made of V4A stainless steel and provides Flame Detectors Series 16xxx with additional protection against moisture and sunlight. The Mounting Bracket 07127 can still be used if the weather shield is used.



Specifications:

Dimensions W × H × D	122 × 156 × 131 mm
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243020 Flame Detector UV/Conventional 800/24-VST-K-N

The Flame Detector 800/24-VST-K-N responds to the UV components of open flames and is, therefore, extremely well suitable for the detection of fires with low smoke development – for example, alcoholic fires or gas flames. The detector is insensitive to disturbance sources such as sunlight or fluorescent lamps. The detector complies with EN 54-10, Class 1, which means it is suitable for applications with a range of up to 25 m.

The alarm and the fault condition are signalled via two dry relay contacts. The functioning of the detector can be checked by means of an external test source of UV light.



Features:

- Can be used in conventional technology
- Connection to a loop via a conventional zone module
- Red status LED indicates activation
- Wall mounting by means of Mounting Bracket MW-800/24

Specifications:

Operating voltage	from 20 VDC to 28 VDC
Current consumption typ.	26 mA (at 24 V, quiescent)
Current consumption max.	46 mA (alarm)
Contact rating	1 A / 30 VDC
Protection class	IP54
Ambient temperature	from -25 °C to 70 °C
Dimensions W × H × D	120 × 200 × 105 mm
Weight	0.8 kg
Colour	light grey
Approval number VdS	G 208143

Cross-references	Page	Art.No.	Name Type
	413	249151	Mounting Bracket/Flame Detector MW-800/24

249151 Mounting Bracket/Flame Detector MW-800/24

The stainless steel mounting bracket is used for mounting a Flame Detector 800/24-VST-K-N as well as for the stepless horizontal and vertical adjustment to the monitoring area. The vertical adjustment range is $\pm 70^\circ$ and the horizontal one is $\pm 60^\circ$.



Specifications:

Dimensions W × H × D	150 × 200 × 117 mm
Pivoting range	from -60 ° to 60 °
Inclination angle	from -70 ° to 70 °
Weight	1.3 kg

13.3 Battery Smoke Detectors

241153 Optical Battery Smoke Detector LM-107A

The battery-powered optical smoke detector is intended for monitoring of private living quarters and therefore is suitable for use in single-family houses, flats and multi-family houses, especially in living rooms and bedrooms as well as in corridors. The detector contains a permanently installed lithium battery with a lifespan of 10 years.



Features:

- Integrated 85 dB(A) sounder
- Test button for checking the detector
- Red status LED for the indication of activation and for the periodical function check
- Green status LED indicates alarm that has been stored while the user was absent
- Warning signal „Replace detector“

Specifications:

Energy supply	lithium battery 3 V, permanently installed
Battery type	CR123A
Battery lifespan	10 years
Relative humidity (no condensation) max.	95 %
Ambient temperature	from -10 °C to 40 °C
Sound level typ.	85 dB(A)/3 m
Dimensions Ø × H	102 × 35 mm
Weight	120 g
Colour	white
Approval number CPR	2831-CPR-F0913
Approval number VdS	G 216009

241150 Optical Battery Smoke Detector/9V FH20/O/9

Not for new systems

The battery-powered optical smoke detector is suitable for use in single-family homes and apartments, especially in living rooms and bedrooms as well as in corridors. The mounting base and a battery are included in the delivery.

Up to 38 detectors of the same type can be networked with each other. In the event of an alarm, the acoustical signalling devices of all detectors are activated together. In this way, the affected area is alarmed selectively and a timely escape from the endangered area is made possible.



Features:

- Integrated 85 dB(A) sounder
- Test button for checking the battery
- Red status LED for the indication of activation and for the periodical function check
- Protection against mounting the detector without battery
- Warning signal „Replace battery“
- Installation on flush-mount installation box

Specifications:

Energy supply	Block battery 9 V
Battery type	GP # 1604G Duracell # MN1604
Battery lifespan	3 years
Relative humidity (no condensation)	from 10 % to 85 %
Ambient temperature	from 0 °C to 55 °C
Sound level typ.	85 dB(A)/3 m

Dimensions Ø × H	110 × 35 mm
Weight	125 g
Colour	white
Approval number CPR	0786-CPD-21036

Cross-references	Page	Art.No.	Name Type
	415	246169	Surface Mounting Box FH20/AP-1

241151 Optical Battery Smoke Detector/9/230V FH20/O/9/230

The optical smoke detector for battery and mains operation is suitable for use in single-family homes and apartments, especially in living rooms and bedrooms as well as in corridors. The mounting base and a battery are included in the delivery.

Up to 38 detectors of the same type can be networked with each other. In the event of an alarm, the acoustical signalling devices of all detectors are activated together. In this way, the affected area is alarmed selectively and a timely escape from the endangered area is made possible.



Features:

- Integrated 85 dB(A) sounder
- Test button for checking the battery
- Red status LED for the indication of activation and for the periodical function check
- Green status LED indicates mains supply
- Protection against mounting the detector without battery
- Warning signal „Replace battery“
- Installation on flush-mount installation box

Specifications:

Energy supply	Block battery 9 V
Mains voltage	100 - 240 VAC / 50 - 60 Hz
Battery type	GP # 1604G Duracell # MN1604
Battery lifespan	5 years (if permanently mains-powered)
Relative humidity (no condensation)	from 10 % to 85 %
Ambient temperature	from 0 °C to 55 °C
Sound level typ.	85 dB(A)/3 m
Dimensions Ø × H	110 × 35 mm
Weight	125 g
Colour	white
Approval number CPR	0786-CPD-21036

Cross-references	Page	Art.No.	Name Type
	415	246169	Surface Mounting Box FH20/AP-1

246169 Surface Mounting Box FH20/AP-1

The installation box is used for surface mounting of an Optical Battery Smoke Detector Series FH20 which is networked with other detectors or which is mains powered.

Specifications:

Dimensions Ø × H	92 × 26 mm
Weight	30 g



14 Beam Smoke Detectors



244490 Beam Smoke Detector/Conventional OSI-RE-SS

The beam smoke detector is used for monitoring open areas with a range of 5 m to 100 m. It consists of a combined transmitter/receiver unit which is integrated in a plastic housing. The detector is designed for applications using conventional technology and is suitable for indoor mounting. The transmitter/receiver unit projects an infrared light beam through the area to be protected towards a (reflector) mirror, which returns the light beam. This reflected signal is analysed by means of a high-speed CCD sensor. The smoke detection is based on the attenuation of the light beam by means of smoke. Since the CCD technology is used in the receiver, natural building movements of up to 0.8°, sunlight, strongly fluctuating lighting conditions as well as sudden obstructions will be recognised and will not result in false alarms of the detector. Lasting obstructions will be evaluated as fault. The transmitter/receiver unit is provided with an integrated heating which, if necessary, can be activated by means of a jumper. The detector can be activated by covering the reflector with the Test Filter OSP-004.



The response sensitivity of the detector can be set to 4 different levels.

The detector comes with a reflector, which can be used for the complete range from 5 to 100 m.

Features:

- Detection of clear and dark smoke
- Transmitter and receiver integrated in a single housing
- Exact analysis and alarm evaluation through CCD sensor technology
- LED displays on the receiver for alarm, fault and power, and for the indication of the set values and as commissioning support
- Detector can be easily aligned by means of a movable „eyeball“

Specifications:

Operating voltage	from 10.2 VDC to 32 VDC
Current consumption typ.	11 mA (quiescent, at 24 VDC)
Current consumption max.	15 mA (alarm, at 24 VDC)
Current consumption	0.5 A (heating, at 24 VDC)
Relative humidity (no condensation) max.	95 %
Protection class	IP44
Ambient temperature	from -20 °C to 55 °C
Dimensions W × H × D	254 × 152,4 × 114,3 mm
Dimensions Reflector W × H × D	200 × 230 × 10 mm
Weight	1.12 kg
Colour	white
Approval number CPR	0333-CPR-075624
Approval number VdS	G 222028

Cross-references	Page	Art.No.	Name Type
	420	244492	Protection Grille for OSI Detector OSI-RWG(9846)
	420	244495	Key Switch Test/Reset RTS151KEY
	420	244036	Surface Mounting Box for RTS151KEY WM2348E
	419	244493	Laser Alignment Tool OSP-002
	419	244494	Test Filter for OSI Detectors OSP-004-1

244491 Beam Smoke Detector/200API OSI-RIE-00

The beam smoke detector is used for monitoring open areas with a range of 5 m to 100 m. It consists of a combined transmitter/receiver unit which is integrated in a plastic housing. The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting. The transmitter/receiver unit projects an infrared light beam through the area to be protected towards a reflector (mirror), which returns the light beam. This reflected signal is analysed by means of a high-speed CCD sensor. The smoke detection is based on the attenuation of the light beam by means of smoke. Since the CCD technology is used in the receiver, natural building movements of up to 0.8°,



sunlight, strongly fluctuating lighting conditions as well as sudden obstructions will be recognised and will not result in false alarms of the detector. Lasting obstructions will be evaluated as fault. The transmitter/receiver unit is provided with an integrated heating which, if necessary, can be activated by means of a jumper. If the heating is to be used, an external power supply is required. The detector can be activated by covering the reflector with the Test Filter OSP-004. The response sensitivity of the detector can be set to 4 different levels. The detector comes with a reflector, which can be used for the complete range from 5 to 100 m.

Features:

- Detection of clear and dark smoke
- Transmitter and receiver integrated in a single housing
- Exact analysis and alarm evaluation through CCD sensor technology
- LED displays on the receiver for alarm, fault and power, and for the indication of the set values and as commissioning support
- Detector can be easily aligned by means of a movable „eyeball“

Specifications:

Supply voltage Heating	from 15 VDC to 32 VDC
Current consumption max.	500 mA (ext. supply for heating)
Current consumption loop typ.	20 mA (quiescent, at 15 VDC)
Current consumption loop max.	22 mA (alarm, at 15 VDC)
Relative humidity (no condensation) max.	95 %
Protection class	IP44
Ambient temperature	from -20 °C to 55 °C
Dimensions W × H × D	254 × 152,4 × 114,3 mm
Dimensions Reflector W × H × D	200 × 230 × 10 mm
Weight	1.12 kg
Colour	white
Approval number CPR	0333-CPR-075625
Approval number VdS	G 222041

Cross-references	Page	Art.No.	Name Type
	420	244492	Protection Grille for OSI Detector OSI-RWG(9846)
	420	244495	Key Switch Test/Reset RTS151KEY
	420	244036	Surface Mounting Box for RTS151KEY WM2348E
	419	244493	Laser Alignment Tool OSP-002
	419	244494	Test Filter for OSI Detectors OSP-004-1

244493 Laser Alignment Tool OSP-002

For easier alignment of the beam smoke detector, the laser alignment tool is attached to the transmitter/receiver unit. The laser beam is activated for the duration of the alignment by means of a switch. The device complies with laser class 2. The required batteries (three LR44 batteries) are inserted in the alignment tool and are included in the delivery scope.



244494 Test Filter for OSI Detectors OSP-004-1

Due to the alarm evaluation by means of the CCD sensor technology that has been integrated into the OSI-xx detectors, the detector can only be activated by means of a special filter that has been tuned to the internal evaluation. The filter comes with a protective cover.

Specifications:

Dimensions W × H	254 × 254 mm
Colour	transparent

244495 Key Switch Test/Reset RTS151KEY

The key switch with the switch positions „Test“ and „Reset“ is integrated in a white plastic case. By means of the switch, the Beam Smoke Detectors OSI-RE-SS, OSI-RIE-SS, 6500RSE and 6500SE can be activated or reset. Furthermore there is a red LED which is intended to indicate the alarm condition of the detector. The key switch is designed for indoor flush mounting. If a Surface Mounting Box WM2348E is used, the key switch can also be used in applications for surface mounting.



Features:

- 3 positions, key can be withdrawn in the centre position
- 2 keys included in the delivery

Specifications:

Current consumption max.	12 mA
Relative humidity (no condensation) max.	95 %
Ambient temperature	from -10 °C to 60 °C
Dimensions W × H × D	70 × 121 × 46 mm
Weight	125 g
Colour	white

244036 Surface Mounting Box for RTS151KEY WM2348E

By using the surface mounting box, the key switch RTS151KEY can also be used in applications for surface mounting.



Specifications:

Dimensions W × H × D	78 × 122 × 45 mm
Colour	white

244492 Protection Grille for OSI Detector OSI-RWG(9846)

The protective cage is made of solid steel wire and is designed for the protection of the transmitter/receiver unit of the Beam Smoke Detector OSI-xx.



Specifications:

Colour	white
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244077 Beam Smoke Detector/Conventional FR-ONE-50M

The beam smoke detector is used for monitoring open areas with a range of 5 m to 50 m (with accessories up to 120 m). It consists of a combined transmitter-receiver unit which is integrated into a plastic housing. The detector is designed for applications using conventional technology and is suitable for indoor mounting. A pulsed infrared beam emitted from the transmitter-receiver unit is reflected by a reflector (mirror). Alarm evaluation is achieved by detection of the reduction of the intensity of the light beam. Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – an effective measure for preventing false alarms. The response sensitivity of the detector can be set to 4 different levels. The detector comes with a reflector, which can be used for ranges from 5 to 50 m. A three-part reflector set



is available as accessory and allows you to extend the range of the detector from 50 to 120 m. By means of the patented „Light Cancellation Technology“, possible sources of interference like sunlight, sodium lamps or fluorescent light are effectively filtered out.

Features:

- Detection of clear and dark smoke
- Transmitter and receiver integrated in a single housing
- EASIFIT system for easy mounting of the detector
- Quick alignment of the infrared beam by means of integrated laser
- AUTO-ALIGN function for the automatic alignment of the beam
- AUTO-OPTIMISE function for the compensation of movements of the building and of contamination
- Sealed detector housing
- LED displays on the receiver for alarm and fault as well as display for indication of the set values and as commissioning support

Specifications:

Operating voltage	from 14 VDC to 36 VDC
Current consumption typ.	5 mA (quiescent)
Current consumption max.	35 mA (alignment mode)
Relative humidity (no condensation) max.	93 %
Protection class	IP55
Ambient temperature	from -20 °C to 55 °C
Dimensions W × H × D	134 × 182 × 151 mm
Dimensions Reflector W × H × D	100 × 100 × 10 mm
Weight	0.7 kg
Colour	white
Approval number CPR	2831-CPR-F2237
Approval number VdS	G 218070

Cross-references	Page	Art.No.	Name Type
	426	244703	Reflector Extension 1010-000
	422	244482	Protection Grille for FR-ONE Detector 1100-000
	421	244480	Heater Kit for Beam unit FR-ONE 1060-000
	427	244706	Heater Kit for Reflector 5000-205
	423	244076	Mounting Bracket/Swivel FR-ONE, FR5000, FR3000 1170-000
	427	244669	Mounting Plate for 50M Reflector FR5000-008
	427	244668	Mounting Plate for 100m Reflector FR5000-007
	428	244481	Ceiling Mounting Bracket for Detectors FR-ONE, FR5000 1140-000
	422	244483	Testfilter-kit for FR-ONE, FR5000, FR3000 1150-000

244480 Heater Kit for Beam unit FR-ONE 1060-000

The heating with integrated fan for the Beam Smoke Detector FR-ONE is used to avoid condensation water on the optics of the transmitter/receiver unit if it is mounted in areas with low temperatures. The heating raises the temperature on the optics by 10°C. By using the heating, false activations and faults of the beam smoke detector due to condensation are effectively avoided.

An external 24 V power supply which powers the heating is required.

Specifications:

Operating voltage typ.	24 VAC/DC
Current consumption max.	3 A (inrush current)
Power consumption	20 W
Ambient temperature min.	-10 °C

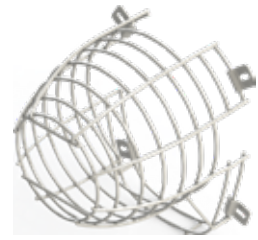


244482 Protection Grille for FR-ONE Detector 1100-000

The protective cage is made of solid steel wire and is designed for the protection of the Beam Smoke Detector FR-ONE.

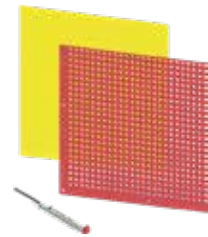
Specifications:

Colour white



244483 Testfilter-kit for FR-ONE, FR5000, FR3000 1150-000

The commissioning set includes the alarm filter for testing the Series Fireray beam smoke detectors after commissioning or cleaning. This alarm filter allows the alarm thresholds 25% and 35% according to EN 54-12 as well as 55% to be tested.



244070 Beam Smoke Detector/Conventional FR3000

The beam smoke detector is used for the smoke detection by means of an infrared light beam and has a range of 5 m to 120 m. Therefore, the detector is very well suited for the monitoring of free areas, high rooms, halls or domes. The smoke detector consists of separate transmitter and receiver units as well as a system control unit. There must be a line-of-sight connection between transmitter and receiver unit with a minimum width of 60 cm. If necessary, an additional transmitter/receiver pair can be connected to the control unit. The detector is adjusted by means of 2 adjusting wheels with an adjustment range of 10° each in horizontal and vertical direction. A laser-assisted adjustment aid with signal strength indication on the receiver unit and on the control unit makes it easier to precisely align the detector during commissioning.



By means of the patented „Light Cancellation Technology“, possible sources of interference like sunlight, sodium lamps or fluorescent light are effectively filtered out. Slow changes of the operating conditions (e.g., contamination of the optics) are compensated by the automatic drift compensation and therefore do not result in false alarms. For the connection in conventional technology there are terminals inside the control unit. Connection to a loop is achieved via auxiliary modules. A separate power supply is required for the detector.

The beam smoke detector is designed for indoor mounting. Transmitter unit, receiver unit and system control unit are integrated into plastic housings. For the wall mounting, a mounting plate as well as a continuously adjustable mounting joint with a swivel range of 180° are available as accessories.

Features:

- Detection of clear and dark smoke
- Integrated laser-assisted adjustment aid
- Two-wire connection between control unit and transmitter and receiver
- As an option, additional transmitter and receiver unit can be connected
- Separate alarm and fault outputs per transmitter/receiver pair
- Liquid crystal display on the system control unit
- Adjustable sensitivity and alarm threshold
- Adjustable delay times for alarm and fault
- Automatic readjustment of the sensitivity in case of aging or contamination
- Easy cabling thanks to knock-out cable entries

Specifications:

Operating voltage from 10.8 VDC to 39.6 VDC

Current consumption typ.	22 mA (at 24 V, control unit with 1 transmitter/receiver pair)
Contact rating	2 A / 30 VDC
Protection class	IP54
Ambient temperature	from -10 °C to 55 °C
Dimensions system control unit W × H × D	203 × 124 × 72 mm
Dimensions transmitter, receiver Ø × L	78 × 161 mm
Weight system control unit	720 g
Weight transmitter, receiver, each	230 g
Approval number CPR	0786-CPD-21162
Approval number VdS	G 212034

Cross-references	Page	Art.No.	Name Type
	428	244664	Protection Grille for FR5000 Controller 1000-019(9841)
	423	244071	Detector for Beam Smoke Detector/Conv FR3000-DETECTOR
	424	244074	Heater Kit for Beam unit 3000-204
	423	244076	Mounting Bracket/Swivel FR-ONE, FR5000, FR3000 1170-000
	424	244073	Flush Mounting Plate FR3000-202
	422	244483	Testfilter-kit for FR-ONE, FR5000, FR3000 1150-000

244071 Detector for Beam Smoke Detector/Conv FR3000-DETECTOR

The additional pair of transmitter and receiver units is used for the expansion of a Beam Smoke Detector FR3000 and is connected to the existing system control unit of the detector.

Specifications:

Operating voltage	from 10.8 VDC to 39.6 VDC
Current consumption typ.	8 mA (at 24 V, 1 transmitter)
Protection class	IP54
Ambient temperature	from -10 °C to 55 °C
Dimensions transmitter, receiver Ø × L	78 × 161 mm
Weight transmitter, receiver	230 g
Approval number CPR	0786-CPD-21162
Approval number VdS	G 212034



Cross-references	Page	Art.No.	Name Type
	423	244076	Mounting Bracket/Swivel FR-ONE, FR5000, FR3000 1170-000
	424	244073	Flush Mounting Plate FR3000-202
	424	244074	Heater Kit for Beam unit 3000-204

244076 Mounting Bracket/Swivel FR-ONE, FR5000, FR3000 1170-000

The mounting joint is used for the wall mounting as well as for the stepless horizontal and vertical alignment of the transmitter or receiver unit of a Beam Smoke Detector FR-ONE, FR5000 or FR3000. All necessary screws are included in the package accompanying the mounting accessory.

Specifications:

Dimensions Ø × D	100 × 98 mm
Pivoting range	from -90 ° to 90 °
Weight	290 g
Rotation angle	360 °



244073 Flush Mounting Plate FR3000-202

The mounting plate is used to mount the transmitter or receiver unit of a Beam Smoke Detector FR3000 on a wall, on a 60 mm flush-mount installation box.

Specifications:

Dimensions Ø × D	100 × 12 mm
Weight	38 g



244074 Heater Kit for Beam unit 3000-204

The heating for the Beam Smoke Detector FR3000 is used to avoid condensation water on the optics of the transmitter or of the receiver if they are mounted in areas with low temperatures. The heating raises the temperature on the optics by 10°C with the help of the built-in fan. By using the heating, false activations and faults of the beam smoke detector due to condensation are effectively avoided.

An external 24 V power supply which powers the heating is required.

Note: For one transmitter/receiver pair, two heater kits are needed.

Specifications:

Operating voltage typ.	24 VAC/DC
Current consumption typ.	0.8 A
Current consumption max.	3 A (inrush current)
Power consumption (at 24 V)	20 W
Ambient temperature min.	-10 °C



244660 Beam Smoke Detector/Conventional FR5000-50M

The beam smoke detector operates on the infrared principle and is used for the monitoring of open areas. The smoke detector set consists of a combined transmitter/receiver unit, a reflector for a range of 8 m to 50 m, as well as a system control unit. A system control unit allows connection of 2 transmitter/receiver units.

The transmitter unit emits an infrared light beam which is reflected by a prism mirror and which is evaluated in the receiver unit. If the light beam is attenuated by smoke, an alarm is activated. Slow changes of the operating conditions, such as the contamination of the optics, are compensated by the automatic drift compensation and do not result in false alarms.

For the connection to a conventional line, the system control unit offers one dry relay contact each for the alarm condition and the fault condition. Connection to a loop is achieved via auxiliary modules. An external power supply is required for the detector. The transmitter/receiver unit and the system control unit are designed for indoor mounting.

Features:

- Detection of clear and dark smoke
- EASIFIT system for easy mounting of the detector
- Quick alignment of the infrared beam by means of integrated laser
- AUTO-ALIGN function for the automatic alignment of the beam
- AUTO-OPTIMISE function for the compensation of movements of the building and of contamination
- Two-coloured LEDs on the transmitter/receiver unit indicate the condition
- 2-wire interface between system control unit and detector
- Wide range of mounting accessories available

Specifications:

Operating voltage	from 14 VDC to 28 VDC
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Current consumption typ.	10 mA (at 24 V, operating mode „LO-Power“)
Current consumption max.	50 mA (at 24 V, operating mode „HI-Power“)
Contact rating	0.1 A / 30 VDC
Protection class	IP54
Ambient temperature	from -10 °C to 55 °C
Dimensions W × H × D	202 × 230 × 81 mm
Dimensions Transmitter-receiver Ø × D	135 × 135 mm
Dimensions Reflector W × H × D	100 × 100 × 10 mm
Weight system control unit	1 kg
Weight Transmitter-receiver	500 g
Approval number CPR	2831-CPR-F0390
Approval number VdS	G 208017

Cross-references	Page	Art.No.	Name Type
	426	244662	Detector for Beam Smoke Detector/Conv FR5000-DET-50M
	426	244663	Detector for Beam Smoke Detector/Conv FR5000-DET-100M
	426	244703	Reflector Extension 1010-000
	428	244664	Protection Grille for FR5000 Controller 1000-019(9841)
	428	244665	Protection Grille for FR5000 Detector 1000-018(9840)
	427	244705	Heater Kit for Beam unit 5000-204
	427	244706	Heater Kit for Reflector 5000-205
	423	244076	Mounting Bracket/Swivel FR-ONE, FR5000, FR3000 1170-000
	427	244669	Mounting Plate for 50M Reflector FR5000-008
	427	244668	Mounting Plate for 100m Reflector FR5000-007
	428	244481	Ceiling Mounting Bracket for Detectors FR-ONE, FR5000 1140-000
	422	244483	Testfilter-kit for FR-ONE, FR5000, FR3000 1150-000

244661 Beam Smoke Detector/Conventional FR5000-100M

The beam smoke detector set FR5000-100M is identical to the beam smoke detector set FR5000-50M, but thanks to the larger reflector (4 reflector units are mounted in the form of a square), the beam smoke detector can be used for the monitoring of open areas with a range of 50 m to 100 m.

Features:

- Detection of clear and dark smoke
- EASIFIT system for easy mounting of the detector
- Quick alignment of the infrared beam by means of integrated laser
- AUTO-ALIGN function for the automatic alignment of the beam
- AUTO-OPTIMISE function for the compensation of movements of the building and of contamination
- Two-coloured LEDs on the transmitter/receiver unit indicate the condition
- 2-wire interface between system control unit and detector
- Wide range of mounting accessories available



Specifications:

Current consumption typ.	10 mA (at 24 V, operating mode „LO-Power“)
Current consumption max.	50 mA (at 24 V, operating mode „HI-Power“)
Dimensions W × H × D	202 × 230 × 81 mm
Weight system control unit	1 kg
Approval number CPR	2831-CPR-F0390
Approval number VdS	G 208017

244662 Detector for Beam Smoke Detector/Conv FR5000-DET-50M

The additional transmitter/receiver unit can be connected to an existing system control unit FR5000. The detector comes with the necessary reflector for a range of 8 m to 50 m.



Features:

- Detection of clear and dark smoke
- EASIFIT system for easy mounting of the detector
- Quick alignment of the infrared beam by means of integrated laser
- AUTO-ALIGN function for the automatic alignment of the beam
- AUTO-OPTIMISE function for the compensation of movements of the building and of contamination
- Two-coloured LEDs on the transmitter/receiver unit indicate the condition
- 2-wire interface between system control unit and detector
- Wide range of mounting accessories available

Specifications:

Weight Transmitter-receiver	500 g
Approval number CPR	2831-CPR-F0390
Approval number VdS	G 208017

244663 Detector for Beam Smoke Detector/Conv FR5000-DET-100M

The additional transmitter/receiver unit can be connected to an existing system control unit FR5000. The detector comes with the necessary reflector for a range of 50 m to 100 m.



Features:

- Detection of clear and dark smoke
- EASIFIT system for easy mounting of the detector
- Quick alignment of the infrared beam by means of integrated laser
- AUTO-ALIGN function for the automatic alignment of the beam
- AUTO-OPTIMISE function for the compensation of movements of the building and of contamination
- Two-coloured LEDs on the transmitter/receiver unit indicate the condition
- 2-wire interface between system control unit and detector
- Wide range of mounting accessories available

Specifications:

Weight Transmitter-receiver	500 g
Approval number CPR	2831-CPR-F0390
Approval number VdS	G 208017

244703 Reflector Extension 1010-000

The reflector set contains 3 reflectors and is used as supplement to a single reflector of a Beam Smoke Detector FR5000-50M or FR-ONE-50M. The 4 reflectors are assembled so as to form a square unit, thereby increasing the range of the FR5000 to up to 100 m, or the range of the FR-ONE to up to 120 m.



Specifications:

Dimensions W × H × D	200 × 200 × 10 mm
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Cross-references	Page	Art.No.	Name Type
	427	244668	Mounting Plate for 100m Reflector FR5000-007

244668 Mounting Plate for 100m Reflector FR5000-007

The mounting plate can accommodate 4 prism reflectors for the Beam Smoke Detectors FR-ONE and FR5000. Therefore the FR-ONE has a maximum range of 120 metres and the FR5000 has a maximum range of 100 metres. The reflector is mounted on the wall and aligned by means of the universal joint FR5000-005 or the mounting joint 1170-000.



Cross-references	Page	Art.No.	Name Type
	423	244076	Mounting Bracket/Swivel FR-ONE, FR5000, FR3000 1170-000

244669 Mounting Plate for 50M Reflector FR5000-008

The mounting plate can accommodate a prism reflector of the Beam Smoke Detectors FR-ONE and FR5000. This means that the reflector has a maximum range of 50 metres. The reflector is mounted on the wall and aligned by means of the universal joint FR5000-005 or the mounting joint 1170-000.



Cross-references	Page	Art.No.	Name Type
	423	244076	Mounting Bracket/Swivel FR-ONE, FR5000, FR3000 1170-000

244705 Heater Kit for Beam unit 5000-204

The heating for the Beam Smoke Detector FR5000 is used to avoid condensation water on the optics of the transmitter/receiver unit if it is mounted in areas with low temperatures. The heating raises the temperature on the optics by 10°C with the help of the built-in fan. By using the heating, false activations and faults of the beam smoke detector due to condensation are effectively avoided. An external 24 V power supply which powers the heating is required.



Specifications:

Operating voltage typ.	24 VAC/DC
Current consumption typ.	0.8 A
Current consumption max.	3 A (inrush current)
Power consumption	20 W
Ambient temperature min.	-10 °C

244706 Heater Kit for Reflector 5000-205

The heating for the reflector of the Beam Smoke Detector FR-ONE and FR5000 is used to avoid condensation water on the reflector if it is mounted in areas with low temperatures. The heating raises the temperature on the optics by 10°C. By using the heating, false activations and faults of the beam smoke detector due to condensation are effectively avoided.

The heating is mounted on the wall and can accommodate either one reflector (range 50 metres) or four reflectors (range 50 to 100 metres, 120 metres with FR-ONE). An external 24 V power supply which powers the heating is required.



Specifications:

Operating voltage typ.	24 VAC/DC
Current consumption typ.	0.8 A
Current consumption max.	3 A (inrush current)
Power consumption	20 W
Ambient temperature min.	-10 °C
Dimensions W × H	284 × 284 mm

244481 Ceiling Mounting Bracket for Detectors FR-ONE, FR5000 1140-000

The ceiling mounting bracket is designed for mounting the Beam Smoke Detector FR-ONE or FR5000 or the reflector, for application under difficult conditions or when an area must be monitored by cascading several segments.

Specifications:

Dimensions W × H × D	101 × 387 × 36 mm
Weight	1.45 kg

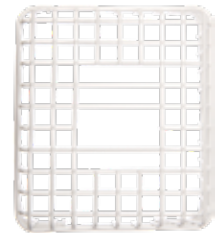


244664 Protection Grille for FR5000 Controller 1000-019(9841)

The protective cage is made of solid steel wire and is designed for the protection of the system control unit of the Beam Smoke Detectors FR3000 and FR5000.

Specifications:

Colour	white
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244665 Protection Grille for FR5000 Detector 1000-018(9840)

The protective cage is made of solid steel wire and is designed for the protection of the transmitter/receiver unit of the Beam Smoke Detectors FR3000 and FR5000.

Specifications:

Colour	white
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244075 Beam Smoke Detector/CoreI/50m SA7100-100

The beam smoke detector set SA7100-100 corresponds to the smoke detector set FR5000-50M, but a loop module for the Apollo protocol is integrated in the system control unit. Therefore the smoke detector can be connected directly to a loop with Apollo protocol. For expanding and mounting the detector, the Series FR5000 system accessories are used.

Features:

- Detection of clear and dark smoke
- EASIFIT system for easy mounting of the detector
- Quick alignment of the infrared beam by means of integrated laser
- AUTO-ALIGN function for the automatic alignment of the beam
- AUTO-OPTIMISE function for the compensation of movements of the building and of contamination
- Two-coloured LEDs on the transmitter/receiver unit indicate the condition
- 2-wire interface between system control unit and detector
- Wide range of mounting accessories available

Specifications:

Current consumption typ.	10 mA (at 24 V, operating mode „LO-Power“)
Current consumption max.	50 mA (at 24 V, operating mode „HI-Power“)
Dimensions W × H × D	202 × 230 × 81 mm
Weight system control unit	1 kg
Approval number CPR	2531-CPR-CSP11008
Approval number VdS	G 217042



15 Linear Heat Detectors



15.1 Linear Heat Detectors ProReact

244440 Control Unit linear heat detection A1388

Together with the sensor cable and the termination box, the control unit forms a linear thermal detection system. The system has been tested and certified according to EN 54-22:2015 and allows reliable detection of maximum temperature exceedances over the entire length of the sensor cable. The alarm threshold of the temperature can be set according to the classes A1I, A2I and BI of EN 54-22:2015, as well as to further levels in the range of 54 ... 100 °C. In the classes A1I and A2I, the system reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 57 °C. In the control unit there are dry change-over contacts for pre-alarm and alarm, as well as an opto-coupled fault output. If appropriate modules are used, connection in intelligent loop technology is also possible.



The linear heat detector allows early fire detection in far-flung facilities such as underground car parks, tunnels, cable trays or conveyor belts.

The sensor cable consists of 4 copper wires, which are insulated with a material with a negative temperature coefficient. Through permanent monitoring of the resistance of the sensor cable, a rise in temperature at any point of the cable can be detected. In addition to the temperature change monitoring, the control unit also checks the sensor cable for wire breakage and short circuit in order to be able to report any damage immediately.

Pre-alarm and alarm thresholds can be set in the control unit by means of simple menu options or through a PC software. Four LEDs indicate the status of the control unit. The programming software is available in the download area of the LST website.

Note: The termination box A1470 is included in the delivery scope of the control unit.

Features:

- Sensor cables up to a length of 500 m can be connected
- Detects temperature exceedance at any point of the sensor cable
- High security against false alarms, even under unfavourable environmental conditions
- 100 °C temperature monitor installed in housing
- Easy mounting, commissioning and maintenance

Specifications:

Operating voltage	from 20 VDC to 30 VDC
Current consumption typ.	31 mA at 20 VDC (quiescent)
Current consumption max.	85 mA (alarm, with LCD backlight)
Protection class	IP65
Ambient temperature	from -20 °C to 50 °C
Dimensions W × H × D	182 × 180 × 90 mm
Weight	860 g
Colour	light grey
Approval number VdS	G 220006

Cross-references	Page	Art.No.	Name Type
	432	244454	Sensor Cable red PVC/per metre F3050-1M
	431	244451	Sensor Cable red PVC/Metre/100m coil F3050-100M
	432	244452	Sensor Cable red PVC/Metre/250m coil F3050-250M
	432	244453	Sensor Cable red PVC/Metre/500m coil F3050-500M
	433	244458	Sensor Cable black Nylon/per metre F3051-1M
	432	244455	Sensor Cable black Nylon/Metre/100m coil F3051-100M
	433	244456	Sensor Cable black Nylon/Metre/250m coil F3051-250M
	433	244457	Sensor Cable black Nylon/Metre/500m coil F3051-500M
	434	244462	Sensor Cable Stainless Steel/per metre F3052-1M
	433	244459	Sensor Cable Stainless Steel/Metre/100m coil F3052-100M
	434	244460	Sensor Cable Stainless Steel/Metre/250m coil F3052-250M
	434	244461	Sensor Cable Stainless Steel/Metre/500m coil F3052-500M
	431	244441	Junction Box linear heat detection A1471

Cross-references	Page	Art.No.	Name Type
	435	244466	Leader Cable gray LSZH/per metre F2990-1M
	434	244465	Leader Cable gray LSZH/Metre/100m coil F2990-100M
	436	244468	Leader Cable Stainless Steel/per metre F2991-1M
	435	244467	Leader Cable Stainless Steel/Metre/100m coil F2991-100M

244441 Junction Box linear heat detection A1471

The junction box allows you to connect two cable ends to each other, thereby extending the sensor cable. The cable ends are inserted through threaded cable glands and are interconnected by means of the terminals inside the box.



Specifications:

Protection class	IP65
Dimensions W × H × D	94 × 94 × 57 mm
Material	plastics

Cross-references	Page	Art.No.	Name Type
	430	244440	Control Unit linear heat detection A1388

244442 End of line Unit linear heat detection A1470

The termination box is connected to the open end of the sensor cable. Thanks to the termination, the cable can be checked for short circuit and wire breakage. The cable end is inserted through a threaded cable gland and is connected to the terminals of the end-of-line printed circuit board.

The termination box A1470 is included in the delivery scope of the control unit, it is only needed as replacement part.

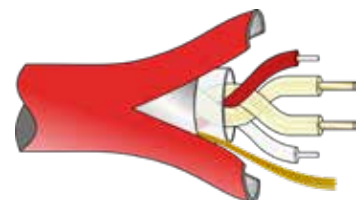


Specifications:

Protection class	IP65
Ambient temperature	from -40 °C to 125 °C
Dimensions W × H × D	60 × 75 × 30 mm
Material	die-cast aluminium, grey

244451 Sensor Cable red PVC/Metre/100m coil F3050-100M

The red sensor cable consists of four copper wires, each of which is insulated with a colour-coded material with a negative temperature coefficient. The wires are twisted and insulated with a covering made of temperature-resistant and flame-retardant plastic.



Features:

- Detects temperature exceedances at any point of the sensor cable
- Resistant to dust and moisture, not UV-resistant
- Easy installation

Specifications:

Bending radius min.	60 mm
Ambient temperature	from -40 °C to 150 °C up to 65 °C in Class BI
Application temperature max.	125 °C
Sensor length	Class A1I, A2I: 50 to 500 m Class BI: 30 to 500 m
Weight per metre	25.6 g

Cross-references	Page	Art.No.	Name Type
	436	244718	Fixing base 20mm/Pkg. 200Pcs. 22-11800-110/200STK
	436	244719	Dowel Collar 6-20mm/Pack 200Pcs. 22-11800-111/200STK

Cross-references	Page	Art.No.	Name Type
436		244472	J-Clip Stainless Steel L=50mm/Pack 100Pcs. A1149/100STK
436		244746	Cable ties black 100Pcs. A1175

244452 Sensor Cable red PVC/Metre/250m coil F3050-250M

Corresponds to the red sensor cable F3050-100 for the heat detector A1388, but comes in a roll with a length of 250 m.

Specifications:

Application temperature max.	125 °C
Sensor length	Class A1I, A2I: 50 to 500 m Class BI: 30 to 500 m
Weight per metre	25.6 g

244453 Sensor Cable red PVC/Metre/500m coil F3050-500M

Corresponds to the red sensor cable F3050-100 for the heat detector A1388, but comes in a roll with a length of 500 m.

Specifications:

Application temperature max.	125 °C
Sensor length	Class A1I, A2I: 50 to 500 m Class BI: 30 to 500 m
Weight per metre	25.6 g

244454 Sensor Cable red PVC/per metre F3050-1M

Corresponds to the red sensor cable F3050-100 for the heat detector A1388, but can be ordered in any length from 10 m to 500 m, in multiples of 10 m.

Specifications:

Application temperature max.	125 °C
Sensor length	Class A1I, A2I: 50 to 500 m Class BI: 30 to 500 m
Weight per metre	25.6 g

244455 Sensor Cable black Nylon/Metre/100m coil F3051-100M

The black sensor cable consists of four copper wires, each of which is insulated with a colour-coded material with a negative temperature coefficient. The wires are twisted and insulated with a covering made of temperature-resistant and flame-retardant plastic.



Features:

- Detects temperature exceedances at any point of the sensor cable
- Resistant to dust and moisture
- UV-resistant
- Easy installation

Specifications:

Bending radius min.	100 mm
Ambient temperature	from -40 °C to 150 °C up to 65 °C in Class BI
Application temperature max.	125 °C
Sensor length	Class A1I, A2I: 50 to 500 m Class BI: 30 to 500 m

Weight per metre 36.3 g

Cross-references	Page	Art.No.	Name Type
	436	244718	Fixing base 20mm/Pkg. 200Pcs. 22-11800-110/200STK
	436	244719	Dowel Collar 6-20mm/Pack 200Pcs. 22-11800-111/200STK
	436	244472	J-Clip Stainless Steel L=50mm/Pack 100Pcs. A1149/100STK
	436	244746	Cable ties black 100Pcs. A1175

244456 Sensor Cable black Nylon/Metre/250m coil F3051-250M

Corresponds to the black sensor cable F3051-100 for the heat detector A1388, but comes in a roll with a length of 250 m.

Specifications:

Application temperature max. 125 °C
 Sensor length Class A1I, A2I: 50 to 500 m
 Class BI: 30 to 500 m
 Weight per metre 36.3 g

244457 Sensor Cable black Nylon/Metre/500m coil F3051-500M

Corresponds to the black sensor cable F3051-100 for the heat detector A1388, but comes in a roll with a length of 500 m.

Specifications:

Application temperature max. 125 °C
 Sensor length Class A1I, A2I: 50 to 500 m
 Class BI: 30 to 500 m
 Weight per metre 36.3 g

244458 Sensor Cable black Nylon/per metre F3051-1M

Corresponds to the black sensor cable F3051-100 for the heat detector A1388, but can be ordered in any length from 10 m to 500 m, in multiples of 10 m.

Specifications:

Application temperature max. 125 °C
 Sensor length Class A1I, A2I: 50 to 500 m
 Class BI: 30 to 500 m
 Weight per metre 36.3 g

244459 Sensor Cable Stainless Steel/Metre/100m coil F3052-100M

The stainless steel sensor cable consists of four copper wires, each of which is insulated with a colour-coded material with a negative temperature coefficient. The wires are twisted and insulated with a covering made of temperature-resistant and flame-retardant plastic.



Features:

- Resistant to dust and moisture, limited UV resistance
- Resistant to high mechanical stress
- Easy installation

Specifications:

Bending radius min. 75 mm
 Ambient temperature from -40 °C to 150 °C up to 65 °C in Class BI
 Application temperature max. 125 °C

Sensor length	Class A1I, A2I: 50 to 500 m Class BI: 30 to 500 m
Weight per metre	39.3 g

Cross-references	Page	Art.No.	Name Type
	436	244718	Fixing base 20mm/Pkg. 200Pcs. 22-11800-110/200STK
	436	244719	Dowel Collar 6-20mm/Pack 200Pcs. 22-11800-111/200STK
	436	244472	J-Clip Stainless Steel L=50mm/Pack 100Pcs. A1149/100STK
	436	244746	Cable ties black 100Pcs. A1175

244460 Sensor Cable Stainless Steel/Metre/250m coil F3052-250M

Corresponds to the stainless steel sensor cable F3052-100 for the heat detector A1388, but comes in a roll with a length of 250 m.

Specifications:

Application temperature max.	125 °C
Sensor length	Class A1I, A2I: 50 to 500 m Class BI: 30 to 500 m
Weight per metre	39.3 g

244461 Sensor Cable Stainless Steel/Metre/500m coil F3052-500M

Corresponds to the stainless steel sensor cable F3052-100 for the heat detector A1388, but comes in a roll with a length of 500 m.

Specifications:

Application temperature max.	125 °C
Sensor length	Class A1I, A2I: 50 to 500 m Class BI: 30 to 500 m
Weight per metre	39.3 g

244462 Sensor Cable Stainless Steel/per metre F3052-1M

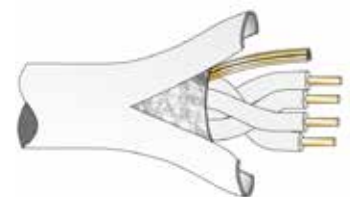
Corresponds to the stainless steel sensor cable F3052-100 for the heat detector A1388, but can be ordered in any length from 10 m to 500 m, in multiples of 10 m

Specifications:

Application temperature max.	125 °C
Sensor length	Class A1I, A2I: 50 to 500 m Class BI: 30 to 500 m
Weight per metre	39.3 g

244465 Leader Cable gray LSZH/Metre/100m coil F2990-100M

The connection cable consists of four copper wires, the wires are twisted and insulated with a covering made of temperature-resistant, UV-resistant and oil-resistant plastic.



Features:

- Resistant to dust and moisture
- Easy installation

Specifications:

Bending radius min.	100 mm
Ambient temperature	from -40 °C to 90 °C
Dimensions Ø × L	6,6 × 100 mm

Weight per metre	28 g
Material	LZH
Colour	white

Cross-references	Page	Art.No.	Name Type
	436	244718	Fixing base 20mm/Pkg. 200Pcs. 22-11800-110/200STK
	436	244719	Dowel Collar 6-20mm/Pack 200Pcs. 22-11800-111/200STK

244466 Leader Cable gray LSZH/per metre F2990-1M

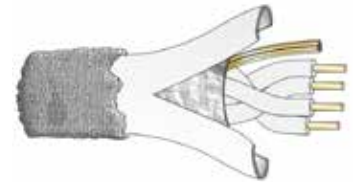
Corresponds to the connection cable F2990-100M, but can be ordered in any length from 10 m to 100 m, in multiples of 10 m.

Specifications:

Weight per metre	28 g
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244467 Leader Cable Stainless Steel/Metre/100m coil F2991-100M

The connection cable consists of four copper wires, the wires are twisted and insulated with a covering made of temperature-resistant, UV-resistant and oil-resistant plastic. In addition, the cable sheath is covered with a stainless steel meshwork.



Features:

- Resistant to dust and moisture, limited UV resistance
- Resistant to high mechanical stress
- Easy installation

Specifications:

Bending radius min.	100 mm
Ambient temperature	from -40 °C to 90 °C
Weight per metre	38 g

Cross-references	Page	Art.No.	Name Type
	436	244718	Fixing base 20mm/Pkg. 200Pcs. 22-11800-110/200STK
	436	244719	Dowel Collar 6-20mm/Pack 200Pcs. 22-11800-111/200STK

244468 Leader Cable Stainless Steel/per metre F2991-1M

Corresponds to the connection cable F2991-100M, but can be ordered in any length from 10 m to 100 m, in multiples of 10 m.

Specifications:

Weight per metre 38 g

244469 J-Clip Stainless Steel L=50mm/Piece A1149/STK

New

The stainless steel mounting bracket with an arm length of 50 mm allows you to easily mount the sensor cable on the ceiling or on the wall. Each bracket comes with one black silicone grommet for the cable protection, a suitable cable tie has to be provided by the customer.



Cross-references	Page	Art.No.	Name Type
	436	244746	Cable ties black 100Pcs. A1175

244472 J-Clip Stainless Steel L=50mm/Pack 100Pcs. A1149/100STK

New

The packing unit contains 100 units of the stainless steel mounting bracket A1149.

244718 Fixing base 20mm/Pkg. 200Pcs. 22-11800-110/200STK

The fixing base is designed for securing a sensor cable when the Dowel Collar 22-11800-111 is used. The base ensures that the cable is positioned at a distance of approx. 20 mm from the ceiling.

One packing unit contains 200 pieces.



244719 Dowel Collar 6-20mm/Pack 200Pcs. 22-11800-111/200STK

The dowel collar is designed for securing a sensor cable when the Fixing Base 22-11800-110 is used. Thanks to the barbs, neither a screw nor an extra dowel is needed. The dowel collar can be used for ceilings made of concrete or bricks, but is not suitable for mounting on ceilings made of sheet metal. One packing unit contains 200 pieces.



Specifications:

Drilling diameter 6 mm

Cross-references	Page	Art.No.	Name Type
	436	244718	Fixing base 20mm/Pkg. 200Pcs. 22-11800-110/200STK

244746 Cable ties black 100Pcs. A1175

These cable ties have a high tensile strength and are heat-resistant up to 110 °C and UV-resistant.

Specifications:

Dimensions L × W 100 × 2,5 mm
 Material Polyamid 6.6 (PA66)



15.2 Linear Heat Detectors SecuriSens

244690 Linear Heat Detector Single Tube ADW535-1

Through the connected sensor pipe, the linear heat detector can monitor the temperature of large areas. The sensor pipe can be laid with a maximum length of 115 metres and is insensitive to environmental influences such as extreme temperatures, humidity, movement of the air, or dust. Therefore the detector is ideally suited for monitoring of multi-storey or underground car parks, tunnels, loading bays, industrial plants or production halls.

The mode of operation of the heat detector is based on the expansion of gases with rising temperatures and the associated change in pressure in the sensor pipe. By means of electronic pressure sensors and a microprocessor-controlled combination of the measured value, the response behaviour of the detector can be precisely programmed for the system-specific application requirements. Thanks to an integrated alarm verification, deceptive alarms are virtually ruled out. Together with the optional Relay Interface Module RIM36, the heat detector can be used as rate-of-rise or maximum heat detector, depending on the application.

The system is provided with an automatic sensor pipe monitoring which indicates a deviation of the pressure in the system, for example due to a leak or a squashed pipe, as fault.



Features:

- Connection in conventional technology, via dry contacts
- Additional modules allow connection to a loop
- Automatic self tests of the pneumatic system
- Optical indication of alarm, fault and operation

Specifications:

Operating voltage	from 9 VDC to 30 VDC
Current consumption typ.	35 mA (at 24 V, quiescent)
Current consumption max.	210 mA (at 24 V, self test)
Current consumption	42 mA (at 24 V, alarm)
Protection class	IP65
Ambient temperature	from -30 °C to 70 °C (evaluation unit)
Ambient temperature	from -40 °C to 800 °C (sensor pipe)
Dimensions W × H × D	250 × 212 × 134 mm
Weight full expansion	1.5 kg
Material	ABS-Blend, UL 94-V0
Colour	light grey
Approval number VdS	G 214076 (EN 54-22)

Cross-references	Page	Art.No.	Name Type
	441	244179	Sensor Tube Teflon de=6/4 VE=50m TU-6/4-PTFE
	438	244692	External Temperature Sensor for ADW535 ART535-10
	438	244693	Relay Interface Module RIM36
	439	244178	Flexible Hose PA d=5/3 FH-5/3-PA
	439	244682	Sensor Tube/Cu/with accessories/piece 5.5m TU-5/4-CU
	441	244761	Transition piece teflon tube d=6/4 AD-TU-6/4-CuZn

244691 Linear Heat Detector Double Tube ADW535-2

The Linear Heat Detector ADW535-2 is identical with the Linear Heat Detector ADW535-1, but the ADW535-2 is suitable for the connection of 2 independent sensor pipes. Both sensor pipes can be laid with a maximum length of 115 m each. The two sensor circuits are independently evaluated and monitored, and their condition is transmitted independently. The conditions alarm and fault are individually indicated for the two circuits.



Specifications:

Current consumption typ.	43 mA (at 24 V, quiescent)
Current consumption max.	230 mA (at 24 V, self test)
Current consumption	57 mA (at 24 V, alarm)
Dimensions W × H × D	250 × 212 × 134 mm
Weight full expansion	2 kg
Approval number VdS	G 214076 (EN 54-22)

244692 External Temperature Sensor for ADW535 ART535-10

The external temperature sensor is used for the temperature compensation of the rate-of-rise temperature detection system ADW535. The temperature sensor is to be used



- for applications according to EN 54-22, response classes CI through GI
- for applications according to all EN 54-22 response classes if the application temperature in the monitored area differs from the temperature near the evaluation unit by more than 20 °C.

Specifications:

Cable length	10 m
Protection class	IP65
Ambient temperature	from -50 °C to 200 °C
Weight	370 g
Approval number VdS	G 214076 (EN 54-22)

244693 Relay Interface Module RIM36

The relay interface module is designed for the expansion of a Linear Heat Detector ADW535 or of an aspirating smoke detector ASD532. The module has 5 relays with one dry change-over contact each for transmitting status information (e.g., alarm, advance signal alarm) to the fire detection control panel. The function of each relay has been predefined in the thermal detection system or in the aspirating smoke detector, but it can be freely programmed by means of the configuration software ADWConfig.



Specifications:

Operating voltage	from 9 VDC to 30 VDC
Current consumption typ.	48 mA
Contact rating	1 A / 50 VDC / 30 W
Relative humidity (no condensation) max.	70 %
Ambient temperature	from -30 °C to 70 °C
Dimensions W × H × D	95 × 58 × 17 mm
Weight	85 g
Approval number CPR	0786-CPR-21483

244682 Sensor Tube/Cu/with accessories/piece 5.5m TU-5/4-CU

The sensor pipe that is made of copper has been checked for inclusions and hairline cracks and is intended for connection to the Linear Heat Detector ADW535.

The screw junctions copper pipe d=5/4 are included in the delivery scope.

Note: The pipe clamps, the end plug for the copper pipe d=5/4 as well as connecting pieces that may be needed in addition have to be ordered separately.



Specifications:

Ambient temperature	from -40 °C to 800 °C
Outer diameter	5 mm
Inner diameter	4 mm
Approval number VdS	G 214076

Cross-references	Page	Art.No.	Name Type
	437	244690	Linear Heat Detector Single Tube ADW535-1
	438	244691	Linear Heat Detector Double Tube ADW535-2
	440	244742	End Plug Cu 5 pcs EP-5/4-CuZn
	440	244741	Screw Junction Cu Pipe 10 pcs. SJ-5/4-CuZn
	441	244743	Stiffener Sleeve SS-3-CuZn
	439	244178	Flexible Hose PA d=5/3 FH-5/3-PA
	439	244740	Pipe Clamp Sensor Tube PC-5/6-PP
	439	244745	Pipe Clamp Sensor Tube PC-5/6-STG
	440	244147	T-Junction TJ-5/4-CuZn

244740 Pipe Clamp Sensor Tube PC-5/6-PP

The pipe clamp is made of plastic and is used for mounting the sensor pipe of the Linear Heat Detector ADW535.

Specifications:

Ambient temperature	from -40 °C to 80 °C
Dimensions Ø × H	5,3 × 63 mm
Inner diameter	6 mm
Material	Polypropylene



244745 Pipe Clamp Sensor Tube PC-5/6-STG

The galvanised pipe clamp is used for mounting the sensor pipe of a Linear Heat Detector ADW535 in areas with a higher ambient temperature.

Features:

- Mounting technique: M6 thread
- Clamping range: 8-10 mm

Specifications:

Approval number VdS	G 214076
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244178 Flexible Hose PA d=5/3 FH-5/3-PA

The plastic hose is used as supply line to the monitored area of a Linear Heat Detector ADW535.

Specifications:

Bending radius min.	30 mm
Ambient temperature	from -40 °C to 100 °C
Outer diameter	5 mm
Inner diameter	3 mm



Material Polyamide
 Approval number VdS G 214076

Cross-references	Page	Art.No.	Name Type
	440	244741	Screw Junction Cu Pipe 10 pcs. SJ-5/4-CuZn
	441	244743	Stiffener Sleeve SS-3-CuZn
	439	244682	Sensor Tube/Cu/with accessories/piece 5.5m TU-5/4-CU
	441	244762	Transition set teflon tube d=6/4 AD-5/6-CuZn

244145 Sensing Coil CU SC-5/4-CU-5

The sensing coil is made of copper and allows you to use the Linear Heat Detector ADW535 for monitoring objects and small areas.



Specifications:

Ambient temperature from -40 °C to 800 °C
 Pipe length 5 m
 Material Copper
 Approval number VdS G 214076

244741 Screw Junction Cu Pipe 10 pcs. SJ-5/4-CuZn

This screw joint is made of brass and is used to connect the copper sensor pipe to the plastic hose (d=5/3) for the Linear Heat Detector SecuriHeat ADW 535. For the connection of the plastic hose, a brass stiffener sleeve 5/3 is needed in addition.



Specifications:

Ambient temperature from -40 °C to 800 °C
 Dimensions Ø × H 5 × 22,5 mm
 Weight 14.5 g
 Material Brass CW617N

Cross-references	Page	Art.No.	Name Type
	441	244743	Stiffener Sleeve SS-3-CuZn

244147 T-Junction TJ-5/4-CuZn

This T-joint is made of brass and allows you to create a T-shaped branch in the copper sensor pipe (d=5/4 mm) of a Linear Heat Detector ADW535.



Specifications:

Ambient temperature from -40 °C to 800 °C
 Weight 26.3 g
 Material Brass CW617N
 Approval number VdS G 214076

244742 End Plug Cu 5 pcs EP-5/4-CuZn

The end plug is made of brass and is used as sealing end piece of the copper sensor pipe for the Linear Heat Detector SecuriHeat ADW 535.



Specifications:

Ambient temperature from -40 °C to 800 °C
 Dimensions Ø × H 5 × 8,5 mm
 Weight 1.9 g
 Material Brass CW617N

244743 Stiffener Sleeve SS-3-CuZn

The stiffener sleeve is made of brass and is used for connecting the plastic hose (d=5/3) to the copper sensor pipe for the Linear Heat Detector SecuriHeat ADW 535.



Specifications:

Ambient temperature	from -40 °C to 800 °C
Dimensions outside (Ø × H)	5 × 8 mm
Dimensions inside (Ø × H)	3 × 8 mm
Weight	1.5 g
Material	Brass CW617N

244179 Sensor Tube Teflon de=6/4 VE=50m TU-6/4-PTFE

The Teflon sensor pipe is needed for the Linear Heat Detector ADW535 for use under corrosive environmental conditions. The sensor pipe has already been cleaned with oxygen and has been checked for leaks. If additional connecting pieces or galvanised pipe clamps are needed, they have to be ordered separately.



Specifications:

Ambient temperature	from -40 °C to 200 °C
Outer diameter	6 mm
Inner diameter	4 mm
Weight	2 kg
Material	Teflon

Cross-references	Page	Art.No.	Name Type
	442	244195	Screw Connection Teflon Tube d=6/4 SJ-6/4-PVDF
	442	244196	T-Junction Teflon Tube d=6/4 TJ-6/4-PVDF
	442	244197	End Spigot Teflon Tube d=6/4 EP-6/4-PVDF
	439	244740	Pipe Clamp Sensor Tube PC-5/6-PP
	441	244762	Transition set teflon tube d=6/4 AD-5/6-CuZn

244761 Transition piece teflon tube d=6/4 AD-TU-6/4-CuZn

New

The brass adapter is used for directly connecting the Teflon sensor pipe d=6/4 to a Linear Heat Detector ADW535. The adapter is suitable for use under corrosive environmental conditions.



Specifications:

Ambient temperature	from -40 °C to 200 °C
Outer diameter	6 mm
Inner diameter	4 mm
Weight	25 g
Material	Brass CW617N
Approval number VdS	G 214076

244762 Transition set teflon tube d=6/4 AD-5/6-CuZn

New

The brass adapter set is used as adapter between a plastic hose, d=5/3 to a Teflon tube, d=6/4, for the Linear Heat Detector ADW535.

The adapter set is suitable for use under corrosive environmental conditions, and for use in hazardous areas of zone 1 (category 2G) or zone 21 (category 2D) as directed, according to the Directive 2014/34/EU.



Specifications:

Ambient temperature	from -40 °C to 260 °C
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Weight	28 g
Material	Brass CW617N
Approval number VdS	G 214076

244195 Screw Connection Teflon Tube d=6/4 SJ-6/4-PVDF

The screw joint is used for connecting two Teflon sensor pipes of a Linear Heat Detector ADW535. The screw joint is suitable for use under corrosive environmental conditions.



Specifications:

Ambient temperature	from -50 °C to 140 °C
Outer diameter	6 mm
Inner diameter	4 mm
Material	Polyvinylidene difluoride
Approval number VdS	G 214076

244196 T-Junction Teflon Tube d=6/4 TJ-6/4-PVDF

The T-joint allows you to create a T-shaped branch of the Teflon sensor pipe of a Linear Heat Detector ADW535. The screw joint is suitable for use under corrosive environmental conditions.



Specifications:

Ambient temperature	from -50 °C to 140 °C
Outer diameter	6 mm
Inner diameter	4 mm
Material	Polyvinylidene difluoride
Approval number VdS	G 214076

244197 End Spigot Teflon Tube d=6/4 EP-6/4-PVDF

The end plug is used as sealing end piece for the Teflon sensor pipe of a Linear Heat Detector ADW535. The end plug is suitable for use under corrosive environmental conditions.



Specifications:

Ambient temperature	from -50 °C to 140 °C
Outer diameter	6 mm
Inner diameter	4 mm
Material	Polyvinylidene difluoride
Approval number VdS	G 214076

16 Smoke Aspiration Systems



16.1 Series FFAST

244392 Smoke Aspiration System FLX-010

The smoke aspiration system from the Series FFAST FLEX has connections for 1 pipe network, contains a highly sensitive smoke detector and is connected to the fire detection control panel via the integrated dry relay contacts. The system has been certified according to the EN 54-20 Classes A, B and C. It is especially intended for Class B and C applications, however it is also very well suited for small systems according to Class A.

Via the connected sensor pipe network, air is aspirated from the monitored room and directed to the detector. The integrated evaluation logic evaluates the smoke concentration and when the threshold value is reached, it activates an alarm or pre-alarm. Thanks to the high response sensitivity of the detector, the system is ideal for early fire detection in sensitive areas.

At the front of the device, light emitting diodes indicate the conditions operation, alarm and pre-alarm as well as a fault. The revolutions per minute of the smoke aspiration system's integrated fan is set according to the length of the pipe. By means of a modern ultrasonic technique, a precise and temperature-independent monitoring of the air flow is achieved. The failure of the fan, a blockage of the aspiration holes or a pipe rupture are detected and output on the device as fault message. The integrated event memory can hold 2100 entries and facilitates the evaluation of fire events and fault causes. The integrated Bluetooth interface is designed for communication with a smartphone. The APP is freely available at no cost. In addition, the PC software FFAST FLEX ASPIRE is available for the graphical creation of the pipe network. By means of the software, parameters of the smoke aspiration system can be configured. For the project planning of the smoke aspiration system, the layout of the piping can be graphically designed and the sensitivities and transport times for the aspiration holes can be calculated. The resulting parameters can be set on the device either by means of a DIL switch or the APP. In the course of maintenance, the current parameters of the smoke aspiration system, such as smoke density, the absolute air flow, etc., as well as the events can be transferred to a USB stick and can be read out. In parallel, the smoke density, the absolute air flow, etc., can also be shown graphically on the APP.

For maintenance purposes, the installed air filter can be easily removed and cleaned or replaced. For maintenance purposes, the detector and the fan can be removed and cleaned, and they are fixed in position by means of a snapping mechanism. The smoke aspiration system comes with the detector and the accessories. The housing is designed for wall mounting. For this purpose, the detector and the fan are removed and are reinstalled after the device has been mounted.

The smoke aspiration system is provided with the entire evaluation electronics and the smoke detector, but **without the sensor pipe network**.



Features:

- Air flow monitoring by means of ultrasound
- Bluetooth interface and APP
- Very quiet operation – 30 dB at low revolutions per minute
- Wide operating temperature range
- Easy commissioning by means of DIL switch

Specifications:

Operating voltage	from 18 VDC to 30 VDC
Current consumption typ.	200 mA (at 24 V)
Contact rating	2 A / 30 VDC or 0.5 A / 30 VAC
Relative humidity (no condensation) max.	93 %
Protection class	IP40
Ambient temperature	from -40 °C to 55 °C
Sensitivity opt. sensor	0.046 %/m - 0.328 %/m, 3 levels
Pipe length	I: 80 m, U: 129 m (max. Class C)
Dimensions W × H × D	205 × 280 × 80,5 mm
Weight	1.7 kg
Approval number CPR	0786-CPR-21734
Approval number VdS	G 221059

Cross-references	Page	Art.No.	Name Type
	445	244396	Optical Smoke Detector/FLX-0x0 FLX-SP-01
	446	244397	Replacement Filter intern. for FLX PU=6pcs. FLX-SP-02

244393 Smoke Aspiration System FLX-020

The Smoke Aspiration System FLX-020 is identical to the system FLX-010, but the FLX-020 has connections for 2 separate pipe networks, contains 2 separate highly sensitive smoke detectors and therefore can monitor 2 independent areas. In order to minimise the danger of false alarms, a single pipe network can be routed past both smoke detectors by means of a T-piece, and the two channels are to be operated in interdependence of two detectors.

At the front of the device, light emitting diodes indicate the conditions operation, alarm and pre-alarm as well as a fault separately for each of the two detectors.



Specifications:

Current consumption typ.	220 mA (at 24 V)
Sensitivity opt. sensor	0.046 %/m - 0.328 %/m, 3 levels
Pipe length	I: 2 × 65 m, U: 2 × 128 m (max. Class C)
Dimensions W × H × D	205 × 280 × 80,5 mm
Weight	1.7 kg
Approval number CPR	0786-CPR-21734
Approval number VdS	G 221059

244396 Optical Smoke Detector/FLX-0x0 FLX-SP-01

The detector is used for analysis and evaluation of air, which is sampled from the monitored area by the Smoke Aspiration System Housing FFAST FLEX. The detector measures the light obscuration. The response threshold for the light obscuration can be set by selecting one of three levels. Dry contacts in the evaluation electronics of the smoke aspiration system housing signal the exceeding of alarm and fault thresholds. The detector is included in the delivery scope of the smoke aspiration systems and therefore is only needed as replacement part.



Specifications:

Sensitivity opt. sensor	0.046 %/m - 0.328 %/m, 3 levels
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244284 Air Filter for Smoke Aspir. System F-INF-25

The air filter is placed in the sensor pipe network outside the smoke aspiration system housing, to protect the detector against rapid contamination. The filter consists of 3 layers (a coarse filter mat, a medium filter mat and a fine one), which ensure reliable cleaning of the aspirated air, but at the same time allow smoke particles to pass in case of fire. The filter is provided with 2 pipe fittings for direct insertion into the sensor pipe network.



Specifications:

Dimensions L × W × H	294 × 44 × 60 mm
Weight	225 g
Colour	grey

Cross-references	Page	Art.No.	Name Type
	446	244285	Replacement Filter F-INF-25-RF

244285 Replacement Filter F-INF-25-RF

The packing unit contains 1 coarse, 1 medium and 1 fine replacement filter mat for the Air Filter F-INF-25.

**244397 Replacement Filter intern. for FLX PU=6pcs. FLX-SP-02**

The filter insert FLX-SP-02 is used as replacement for the dirty internal air filters of a Smoke Aspiration System Series FAAST FLEX. For the FLX-010, two filter inserts are needed; for the FLX-020, 3 filter inserts are needed as replacement. The product is only available as a packing unit that contains 6 pieces.



16.2 Accessories and Installation Material

222053 Automatic Purging Unit/3500L/IP54 AFE70-2/IP54

By means of the Automatic Purging Unit Series AFE70, contamination of the pipe system and of the aspiration holes of a smoke aspiration system is prevented and dirt is removed. Pipe systems and filters are periodically „purged“ with compressed air. In contrast to conventional systems, the Automatic Purging Unit Series AFE70 only needs one solenoid valve. Through this valve, the evaluation unit is isolated from the pipe network in order to protect the evaluation unit against damage caused by the compressed air, but at the same time the valve is also used to introduce the compressed air into the pipe network. The thoughtful and patented design of the valve ensures completely unhindered air flow from the sensor pipe network through the purging unit to the evaluation unit of the smoke aspiration system. The solenoid valve is actuated by a control board that is integrated into the housing.



Thanks to the compact structure of the Automatic Purging Units Series AFE70 and the integration of all components in a housing, the extensive mechanical installations and electrical control devices required for conventional purging systems as well as the piping and cabling needed for this can be saved.

Features:

- Fully integrated compact system
- Patented design without air resistance as defined by EN 54-20
- 6 purging programs, each with short or long purging cycle
- Can be manually controlled by means of external push-button
- Internal clock for up to 6 daily timed, preventive purging processes
- Automatic start if fault message is received from smoke aspiration system
- If several AFE70's are fed by the same compressed-air supply pipe, a time delay can be used to avoid simultaneous consumption of large quantities of compressed air
- Several systems can be coupled in master-slave mode
- **Prepared for connection to all usual fire detection control panels and smoke aspiration systems**
- Easy commissioning without software tools
- Multicoloured LED indicates the system conditions

Specifications:

Operating voltage	from 21.6 VDC to 30 VDC
Current consumption typ.	8 mA at 24 V (normal condition)
Current consumption max.	300 mA at 24 V (solenoid valve energised)
Protection class	IP20D (expertly installed)
Protection class	IP54 (control electronics)
Ambient temperature	from 5 °C to 50 °C
Dimensions W × H × D	204 × 68 × 160 mm
Dimensions W × H × D	204 × 201 × 160 mm (with push-in fittings)
Weight	3.2 kg
RAL colour	grey white, RAL 9002
Compressed air connection	max. permissible overpressure 0.7 MPa (7.0 bar) recommended min. overpressure 0.2 MPa (2.0 bar)
Flow rate solenoid valve	0.2 MPa: typ. 1,300 l/min 0.4 MPa: typ. 2,300 l/min 0.6 MPa: typ. 3,200 l/min 0.7 MPa: typ. 3,700 l/min

222054 Automatic Purging Unit/5000L/DF/IP54 AFE70-3/IP54

The structure of the Automatic Purging Unit AFE70-3/IP54 is basically the same as that of the Automatic Purging Unit AFE70-2/IP54, but the AFE70-3/IP54 is designed for an air flow rate of up to 7500 l/min and for low ambient temperatures. Therefore the AFE70-3/IP54 is especially suitable for larger pipe networks in smoke aspiration systems as well as for deep-freeze areas.

Features:

- Designed for deep-freeze areas

Specifications:

Protection class	IP20D (expertly installed)
Dimensions W × H × D	204 × 68 × 160 mm
Weight	3.2 kg



244133 Sampling Pipe PVC. d=25/per metre/5m Piece 1M-ROHR-PVC/5M

The grey PVC tube with a nominal width of 20 mm and an outer diameter of 25 mm is used as sensor pipe for a smoke aspiration system. All joints of the piping system need to be glued together. The pipe is supplied in the form of poles with a length of 5 m.



244248 Sensing Hose/PVC/25mm SCHL-PVC/25

The flexible grey PVC tube has a smooth inner wall with a nominal diameter of 20 mm and an outer diameter of 25 mm. It is used for installing sections of the sensor pipe network of a smoke aspiration system under difficult conditions. The connection with the sensor duct is made via bushings. The sensor tube can be used in all systems, which have an individual setting for the actual air flow conditions. The desired length has to be specified in the order.



244112 Pipe-Fitting-Bend/90 BOGEN-90

Pipe elbow (long radius) made of grey PVC (nominal width = 20 mm), with a bending radius of 90°, designed for sensor pipes of smoke aspiration systems.



244113 Pipe-Fitting-Knee/90 WINKEL-90

Pipe elbow (short radius) made of grey PVC (nominal width = 20 mm), with a bending radius of 90°, designed for sensor pipes of smoke aspiration systems.



244114 Pipe-Fitting-Knee/45 WINKEL-45

Pipe elbow (short radius) made of grey PVC (nominal width = 20 mm), with a bending radius of 45°, designed for sensor pipes of smoke aspiration systems.



244115 Pipe-Fitting-T-Junction Joint/90 T-STÜCK-90

Pipe T-piece made of grey PVC (nominal width = 20 mm), for a 90° junction, designed for sensor pipes of smoke aspiration systems.



244116 Pipe-Fitting-T-Junction Joint/45 T-STÜCK-45

Pipe T-piece made of grey PVC (nominal width = 20 mm), for a 45° junction, designed for sensor pipes of smoke aspiration systems.



244118 Pipe-Fitting-Faucet MUFFE

Pipe adapter made of grey PVC (nominal width = 20 mm), for the connection of sensor pipes of smoke aspiration systems.



244119 Pipe-Fitting-End KAPPE

Pipe end cap made of grey PVC (nominal width = 20 mm), for sensor pipes of smoke aspiration systems.



244125 Pipe Clamp/25 RKL25-2

The pipe clamp that is made of light grey PVC is used for fixation of rigid sensor pipes of smoke aspiration systems.



244132 Pipe Clamp RKL25-1

The pipe clamp that is made of grey plastic is used for fixation of rigid sensor pipes of smoke aspiration systems.



244235 Non-Return Spring Valve RVFED-25

The check valve is a safety device to protect the sensor pipe network and reduction foils during cleaning. During the purging process, the check valve keeps the pressure constant in the entire pipe network, thereby ensuring that all aspiration holes are cleaned equally. The check valve is installed at the end of the sensor pipe network.



244240 Ceiling Lead-Through Set DDF-KOMPL

The ceiling duct enables a barely noticeable integration of aspiration holes in areas with inserted ceilings and in special applications, when air has to be sampled from closed rooms (e.g., 19" cabinets). The ceiling duct consists of an aspiration element including knurled nut for easy installation and a duct reducer. The flexible aspiration tube, the Tube Fitting/T90 and the required reduction foil have to be ordered separately.

The ceiling duct is designed for use with the smoke aspiration systems TP-1, TP-4, TT-1 and T-SS.



244201 Sensing Hose DN12X9 DN-12X9

The aspiration tube DN-12x9 is used for the connection of the system components of the ceiling duct. Thanks to the flexible aspiration tube, aspiration elements can be precisely fit in the false ceiling and can be connected with the sensor pipe network. The desired length has to be specified in the order.



244254 3 Way Ball Valve PVC 3PKH-DN20

The three-way ball valve is intended for manually switching over the sensor pipe of a smoke aspiration system in order to draw air through the aspiration holes, thereby picking up dirt. During the change from normal mode to the mode in which the aspiration holes are vacuumed, the destruction of the smoke aspiration system is prevented thanks to the leak-proof centre position.

The three-way ball valve is not suitable for the connection of compressed air. Connection: 3 × PVC DN20/DA25



Specifications:

Ambient temperature
Weight

from 0 °C to 50 °C
380 g

244237 3 Way Ball Valve Metal 3MKH

The three-way ball valve enables the manual supply of compressed air to the sensor pipe network. During the change from normal mode to purging mode, the destruction of the smoke aspiration system is prevented, thanks to the leak-proof centre position.

For connection to the PVC piping, Screw Joints ÜVS-25X3/4 are needed.
Connection: 3 × 3/4".



Specifications:

Weight 450 g

Cross-references	Page	Art.No.	Name Type
	451	244242	Screw Joint PVC-Brass ÜVS-25X3/4

244242 Screw Joint PVC-Brass ÜVS-25X3/4

The screw joint with 3/4" male thread is used as adapter between a PVC sensor pipe with a diameter of 25 mm and a fitting with a 3/4" female thread.



244250 Screw Joint PVC-PVC ÜVS-PVC-PVC

The screw joint is used as screwable connecting piece between two PVC sensor pipes with a diameter of 25 mm. The two parts are glued together with the sensing pipes; if necessary, the screw joint itself can be opened. The screw joint is also suitable for the junction between sensor pipe and sensing hose.



244255 Dual Screw Joint 25mm DV-25-25

The dual screw joint provides a separable connection between two PVC sensor tubes with a diameter of 25 mm. The sensor pipes are only screwed to the dual screw joint and not glued to it. The dual screw joint is also suitable for the junction between sensor pipe and sensing hose.



244256 Connect. Exhaust Equipment Aspir. Pipe ABSAUG-RED-25-40

By means of the reduction coupler, a commercially available vacuum cleaner with a 40 mm suction tube can be attached to the sensor pipe of a smoke aspiration system for cleaning purposes. The reduction coupler is glued to the sensor pipe on the side which has a diameter of 25 mm.



Cross-references	Page	Art.No.	Name Type
	450	244254	3 Way Ball Valve PVC 3PKH-DN20

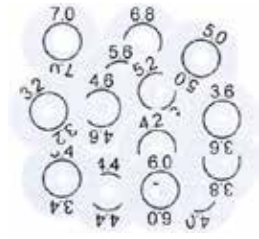
244243 Quick Connector Bushing SSKMU

The quick connector bushing is to be attached to the end of a PVC sensor pipe with a diameter of 25 mm. The built-in coupling sleeve of type SSK-M/F is intended for easy connection of compressed-air for purging processes.



244999 Aspiration Hole Reduction Foil, Overview

Aspiration hole reduction foils are used for a precise design of aspiration holes on the sensor pipe network of a smoke aspiration system. A separate version is available for deep-freezing areas.



Hole diameter	Standard version		Version for deep-freezing areas	
	Article number	Type	Article number	Type
2.0mm	244244	AREDF-2,0	244246	AREDF-2,0TK
2.5mm	244245	AREDF-2,5	244247	AREDF-2,5TK
3.0mm	244202	AREDF-3,0	244217	AREDF-3,0TK
3.2mm	244203	AREDF-3,2	244218	AREDF-3,2TK
3.4mm	244204	AREDF-3,4	244219	AREDF-3,4TK
3.6mm	244205	AREDF-3,6	244220	AREDF-3,6TK
3.8mm	244206	AREDF-3,8	244221	AREDF-3,8TK
4.0mm	244207	AREDF-4,0	244222	AREDF-4,0TK
4.2mm	244208	AREDF-4,2	244223	AREDF-4,2TK
4.4mm	244209	AREDF-4,4	244224	AREDF-4,4TK
4.6mm	244210	AREDF-4,6	244225	AREDF-4,6TK
5.0mm	244211	AREDF-5,0	244226	AREDF-5,0TK
5.2mm	244212	AREDF-5,2	244227	AREDF-5,2TK
5.6mm	244213	AREDF-5,6	244228	AREDF-5,6TK
6.0mm	244214	AREDF-6,0	244229	AREDF-6,0TK
6.8mm	244215	AREDF-6,8	244230	AREDF-6,8TK
7.0mm	244216	AREDF-7,0	244231	AREDF-7,0TK

244233 Sleeve for Reduction Foil BA-AREDF

The banderole is used for reliable fixation of an aspiration hole reduction foil to the sensor pipe network of a smoke aspiration system.



244234 Plastic Clip for Reduction Foil/Low-temp KC-AREDF-TK

The plastic clip is used for reliable fixation of an aspiration hole reduction foil for deep-freezing areas to the sensor pipe network of a smoke aspiration system.



244128 Adhesive/Tangit/0.12kg KLEB-RAS-01

The glue is used for the connection of individual components of a PVC sensor pipe network. One packing unit contains 125 g, which is sufficient for approx. 50 junctions.



244129 Adhesive/Tangit/0.25kg KLEB-RAS-02

The glue is used for the connection of individual components of a PVC sensor pipe network. One packing unit contains 0.25 kg, which is sufficient for approx. 100 junctions.



244130 Adhesive/Tangit/0.5kg KLEB/RAS-05

The glue is used for the connection of individual components of a PVC sensor pipe network. One packing unit contains 0.5 kg, which is sufficient for approx. 200 junctions.



244126 Adhesive/Tangit/1kg KLEB/RAS

The glue is used for the connection of individual components of a PVC sensor pipe network. One packing unit contains 1 kg, which is sufficient for approx. 400 junctions.



244131 Cleaner/Tangit/0,12L REIN-RAS-01

The cleaning liquid is used for removal of dirt, residual fat, etc., which is used before gluing individual components of a sensor pipe network. One packing unit contains 0.125 litre.

**244127 Cleaner/Tangit/1L REIN/RAS**

The cleaning liquid is used for removal of dirt, residual fat, etc., which is used before gluing individual components of a sensor pipe network. One packing unit contains 1 litre.



17 Door Fixing Systems



17.1 Smoke Switches

217004 Smoke Switch RS70-1

By means of the Smoke Switch RS70-1, the fire controls of doors which are open during normal operation can be actuated. But at the same time, the fire protection strategy of closed fire areas is fulfilled in spite of doors that are held open. In the event of a fire, the smoke switch recognises the alarm of the connected automatic fire detector and interrupts the current flow to the fire controls. As a result, the fire doors close automatically, thereby preventing the further spread of fire and smoke. Alternatively, the smoke switch can be actuated by a fire detection control panel. The activation of the output for the fire control can be delayed by an adjustable time.



By means of the „Close door“ key at the front side or an optionally connected external key, the doors can also be closed without alarm condition, if necessary. The integrated buzzer is silenced with a further key. By means of the „RESET“ key, an automatic fire detector that is in the alarm condition is reset.

Light emitting diodes indicate the system conditions „Power“, „Fire alarm“, „Output active“ and „Fault“. The control inputs can be used for various auxiliary functions – for example for a safety device which prevents or delays the closing of the door.

By means of the optional lithium-ion stand-by battery, a failure of the mains voltage can be bridged for up to 4 hours.

Features:

- Detector line with monitored quiescent current for automatic conventional detectors
- Keys on the device for activation, resetting and for silencing of the buzzer
- Input for external key „Reset“ or „Close door“
- Control input for the connection of a contact detector
- Potential-free control input with optocoupler
- Output for fire control - holding magnet
- Output for alarming device - sounder / strobe
- Dry relay change-over contact for alarm transmission
- Delay time for activation can be set (in steps of 5 s from 0 to 75 s)
- Optional stand-by battery

Specifications:

Mains voltage	110 VAC - 240 VAC +10/-15 %, 50/60 Hz
Output current siren outputs	150 mA
Output voltage typ.	24 VDC (magnetic clamp / alarming device)
Output current max. magnetic clamp	300 mA
Contact rating	max. 8 A / 24 VDC resistive max. 1 A / 230 VAC inductive
Protection class	IP66
Ambient temperature	from 5 °C to 40 °C
Dimensions W × H × D	180 × 150 × 60 mm
RAL colour	light grey, RAL 7035
Weight (without batteries)	570 g
Approval number DIBt	Z-6.500-2426 Z-6.510-2404

Cross-references	Page	Art.No.	Name Type
	457	310022	Lithium Standby Battery 22,2V/2,2Ah

310022 Lithium Standby Battery 22,2V/2,2Ah

The maintenance-free accumulator in lithium-ion technology is intended for the emergency power supply of the Smoke Switch RS70-1. The accumulator is attached on the inside of the door of the housing of the smoke switch.



Specifications:

Nominal voltage	22.2 V
Capacity (20 h discharge)	2.2 Ah
Dimensions W × H × D	115 × 70 × 20 mm
Weight	290 g

17.2 Magnetic Clamps

261003 Magnetic Clamp/500N UTKFM05F(1330)

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate for wall mounting as well as an armature plate with a tilt joint as counterpart. The connection box is prepared for use of cable glands.



Specifications:

Operating voltage typ.	24 VDC
Current consumption typ.	60 mA
Power consumption	1.44 W
Protection class	IP40
Ambient temperature	from -20 °C to 50 °C
Dimensions W × H × D	95 × 70 × 39 mm
Dimensions armature plate W × H × D	65 × 65 × 53 mm
Weight	375 g
Weight armature plate	170 g
Adhesive force	500 N
Approval number CPR	0407-CPD-056

261004 Magnetic Clamp/Reset/500N UTKFB05(1350)

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet that is fitted into a surface wall-mount housing as well as an armature plate as counterpart. An interrupt button is located on the side of the housing.



Specifications:

Operating voltage typ.	24 VDC
Current consumption typ.	60 mA
Power consumption	1.44 W
Protection class	IP40
Ambient temperature	from -20 °C to 50 °C
Dimensions W × H × D	90 × 90 × 36 mm
Dimensions armature plate W × H × D	65 × 65 × 23 mm
Weight	380 g
Weight armature plate	140 g
Adhesive force	500 N
Approval number CPR	0407-CPD-056

261005 Magnetic Clamp/Reset/150mm/500N UTKFZ05C(1370/15)

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate and an arm, as well as an armature plate with a tilt joint as counterpart. The magnetic clamp is suitable for mounting on the floor or on the ceiling. For mounting on the wall the magnetic head can be turned by 90°. Release is possible via the integrated interrupt button.



Specifications:

Operating voltage typ.	24 VDC
Current consumption typ.	60 mA
Power consumption	1.44 W
Protection class	IP40

Ambient temperature	from -20 °C to 50 °C
Dimensions W × H × D	90 × 143 × 100 mm
Dimensions armature plate W × H × D	65 × 65 × 53 mm
Weight	950 g
Weight armature plate	170 g
Adhesive force	500 N
Approval number CPR	0407-CPD-056

Cross-references	Page	Art.No.	Name Type
	461	261030	Cover black for Magnetic Clamp with arm/UTKFZ UTKFZ-ABD-1

261006 Magnetic Clamp/Reset/300mm/500N UTKFZ05L(1370/30)

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate and an arm, as well as an armature plate with a tilt joint as counterpart. The magnetic clamp is suitable for mounting on the floor or on the ceiling. For mounting on the wall the magnetic head can be turned by 90°. Release is possible via the integrated interrupt button.



Specifications:

Operating voltage typ.	24 VDC
Current consumption typ.	60 mA
Power consumption	1.44 W
Protection class	IP40
Ambient temperature	from -20 °C to 50 °C
Dimensions W × H × D	90 × 292 × 100 mm
Dimensions armature plate W × H × D	65 × 65 × 53 mm
Weight	1.3 kg
Weight armature plate	170 g
Adhesive force	500 N
Approval number CPR	0407-CPD-056

Cross-references	Page	Art.No.	Name Type
	461	261030	Cover black for Magnetic Clamp with arm/UTKFZ UTKFZ-ABD-1

261008 Magnetic Clamp/1000N UTKFM10F(1340)

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate for wall mounting as well as an armature plate with a tilt joint as counterpart. The connection box is prepared for use of cable glands.



Specifications:

Operating voltage typ.	24 VDC
Current consumption typ.	100 mA
Power consumption	2.4 W
Protection class	IP40
Ambient temperature	from -20 °C to 50 °C
Dimensions W × H × D	95 × 70 × 43 mm
Dimensions armature plate W × H × D	65 × 65 × 53 mm
Weight	585 g
Weight armature plate	210 g
Adhesive force	1000 N
Approval number CPR	0407-CPD-056

261009 Magnetic Clamp/Reset/1000N UTKFM10(1360)

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate for wall mounting as well as an armature plate with a tilt joint as counterpart. The connection box contains an interrupt button and is prepared for use of cable glands.



Specifications:

Operating voltage typ.	24 VDC
Current consumption typ.	100 mA
Power consumption	2.4 W
Protection class	IP40
Ambient temperature	from -20 °C to 50 °C
Dimensions W × H × D	95 × 70 × 43 mm
Dimensions armature plate W × H × D	65 × 65 × 53 mm
Weight	590 g
Weight armature plate	210 g
Adhesive force	1000 N
Approval number CPR	0407-CPD-056

261010 Magnetic Clamp/Reset/150mm/1000N UTKFZ10C(1380/15)

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate and an arm, as well as an armature plate with a tilt joint as counterpart. The magnetic clamp is suitable for mounting on the floor or on the ceiling. For mounting on the wall the magnetic head can be turned by 90°. Release is possible via the integrated interrupt button.



Specifications:

Operating voltage typ.	24 VDC
Current consumption typ.	100 mA
Power consumption	2.4 W
Protection class	IP40
Ambient temperature	from -20 °C to 50 °C
Dimensions W × H × D	90 × 147 × 105 mm
Dimensions armature plate W × H × D	65 × 65 × 53 mm
Weight	1.2 kg
Weight armature plate	210 g
Adhesive force	1000 N
Approval number CPR	0407-CPD-056

Cross-references	Page	Art.No.	Name Type
	461	261030	Cover black for Magnetic Clamp with arm/UTKFZ UTKFZ-ABD-1

261011 Magnetic Clamp/Reset/300mm/1000N UTKFZ10L(1380/30)

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate and an arm, as well as an armature plate with a tilt joint as counterpart. The magnetic clamp is suitable for mounting on the floor or on the ceiling. For mounting on the wall the magnetic head can be turned by 90°. Release is possible via the integrated interrupt button.

Specifications:

Operating voltage typ.	24 VDC
Current consumption typ.	100 mA
Power consumption	2.4 W
Protection class	IP40
Ambient temperature	from -20 °C to 50 °C
Dimensions W × H × D	90 × 292 × 105 mm
Dimensions armature plate W × H × D	65 × 65 × 53 mm
Weight	1.5 kg
Weight armature plate	210 g
Adhesive force	1000 N
Approval number CPR	0407-CPD-056



261030 Cover black for Magnetic Clamp with arm/UTKFZ UTKFZ-ABD-1

The black plastic cover is used to protect the flange plate of a Magnetic Clamp UTKFZ and to cover it in an optically pleasing way.

Specifications:

Dimensions W × H × D	95 × 95 × 27 mm
Weight	25 g
Colour	black



18 Test Devices



219017 Loop Tester LTG30-1

The Loop Tester LTG30-1 helps both in commissioning and in maintenance of fire detection systems in loop technology. In this way, completed loop lines can be checked for possible installation errors – without a fire detection control panel. After the start of the test, the device automatically carries out a series of measurements, thereby determining the essential electrical parameters of the loop lines. For the indication of the results and any error messages, the device has 8 light emitting diodes and an display.

The Loop Tester LTG30-1 supports the three detector brands:

- Labor Strauss (Detector Series FI700, FI750)
- System Sensor (Detector Series 200, 200AP)
- Apollo (Detector Series XP95, Discovery, Soteria)



The loop tester is delivered with two 3-wire measuring lines with alligator clips for the connection to loop start and loop end, one measuring line with alligator clip for the connection to the equipotential busbar, a 24 VDC power adapter as well as a user manual.

Features:

- 3 green light emitting diodes for the indication of the correct condition of the circular line
- 5 yellow light emitting diodes for the indication of insulation faults of the loop lines
- display for the indication of the resistance values of the loop lines L+ and L- and of error messages

Specifications:

Operating voltage	from 11 VDC to 30 VDC
Current consumption max.	1 A (at 24 V)
Ambient temperature	from -5 °C to 50 °C
Dimensions L × W × H	210 × 110 × 35 mm
Weight	400 g

249220 Detector Test Kit Smoke/Thermo 1001-101

Discontinued

The detector tester 1000 is used to check the correct activation of smoke detectors, thermal detectors or optical-thermal detectors. For testing a smoke sensor, smoke is generated inside the tester. For this purpose, a replaceable capsule is inserted into the device. The function of a thermal detector is tested by means of an integrated heating element.

The desired test mode is selected through the menu of the detector tester. If multi-criteria detectors are tested, combined tests can also be carried out, and the menu allows you to determine whether the individual tests – by means of smoke or heat – are to be carried out simultaneously or one after the other. Two multicoloured LEDs indicate the execution of a test as well as the condition of the test device.

The detector tester can be used together with the Telescopic Poles SOLO100 and SOLO108 as well as with the Extension Pole SOLO101. The delivery scope of the Detector Test Kit 1001-101 includes the test device, 2 batteries, a charging device, a smoke capsule, a USB cable and the user manual on CD. Power is supplied by an NiMH battery 7.2 V / 2.2 Ah.



Specifications:

Energy supply	NiMH battery
Battery voltage	7.2 VDC
Battery capacity	2 Ah
Relative humidity (no condensation)	from 0 % to 85 %
Ambient temperature	from 5 °C to 45 °C
Dimensions Ø × H	153 × 224 mm
Weight	750 g

Cross-references	Page	Art.No.	Name Type
	468	249053	Telescopic Pole SOLO100

Cross-references	Page	Art.No.	Name Type
	469	249054	Extension Pole SOLO101
	472	249222	Replacement Smoke Capsule TS3-001
	469	249226	Carrying bag for test equipment SOLO610-001
	468	249227	Telescopic Pole 2.2m SOLO108-001
	469	249231	Battery for Detector Tester SOLO770-001

249221 Detector Test Kit Smoke/Thermo/CO 2001-101

The detector tester 2000 is used to check the correct activation of smoke detectors, thermal detectors, carbon monoxide detectors, or of multi-criteria detectors which respond to one of these three characteristics of fire. For testing a smoke or CO sensor, smoke or carbon monoxide, respectively, is generated inside the tester. For that purpose, one replaceable capsule per characteristic of fire is placed in the tester. The function of a thermal detector is tested by means of an integrated heating element.

The desired test mode is selected through the menu of the detector tester. If multi-criteria detectors are tested, combined tests can also be carried out, and the menu allows you to determine whether the individual tests – by means of smoke, CO or heat – are to be carried out simultaneously or one after the other.

Two multicoloured LEDs indicate the execution of a test as well as the condition of the test device.

The detector tester can be used together with the Telescopic Poles SOLO100 and SOLO108 as well as with the Extension Pole SOLO101. The delivery scope of the Detector Test Kit 2001-101 includes the test device, 2 batteries, a charging device, a smoke capsule, a CO capsule, a USB cable and the user manual on CD. Power is supplied by an NiMH battery 7.2 V / 2.2 Ah.



Specifications:

Energy supply	NiMH battery
Battery voltage	7.2 VDC
Battery capacity	2 Ah
Relative humidity (no condensation)	from 0 % to 85 %
Ambient temperature	from 5 °C to 45 °C
Dimensions Ø × H	153 × 273 mm
Weight	900 g

Cross-references	Page	Art.No.	Name Type
	468	249053	Telescopic Pole SOLO100
	469	249054	Extension Pole SOLO101
	472	249222	Replacement Smoke Capsule TS3-001
	472	249223	Replacement CO Capsule TC3-001
	469	249226	Carrying bag for test equipment SOLO610-001
	468	249227	Telescopic Pole 2.2m SOLO108-001
	469	249231	Battery for Detector Tester SOLO770-001

249143 Smoke Detector Test Set SOLO808

The Smoke Detector Test Set SOLO808 is the ideal initial equipment for checking the functionality of automatic smoke detectors. The set includes the Detector Test Tool SOLO330 and a Telescopic Pole SOLO108. By means of the two-part telescopic pole, which can be set to lengths of between 1.2 m and 2.2 m, detectors can be tested up to a room height of approx. 3.5 m.



Cross-references	Page	Art.No.	Name Type
	473	249140	Test Gas Can SOLOC3-001
	469	249226	Carrying bag for test equipment SOLO610-001
	473	249360	Test Gas Can SOLOA5-001
	473	249361	Test Gas Can SOLOA10-001

249051 Smoke Detector Test Tool SOLO330

The smoke detector test tool is used for checking automatic smoke detectors by means of non-polluting test gas. The transparent head of the test tool provides intervisibility with the detector activation LED indicator and thus saves test gas. The construction of the test tool, thanks to its pivoting head, allows reaching even mounting places which can be accessed only with difficulty.

With the optional Telescopic Poles SOLO100 and SOLO108 as well as up to 3 Extension Poles SOLO101, it is possible to check detectors which are mounted in rooms of up to approx. 9 m height.



Cross-references	Page	Art.No.	Name Type
	468	249053	Telescopic Pole SOLO100
	469	249054	Extension Pole SOLO101
	473	249140	Test Gas Can SOLOC3-001
	469	249226	Carrying bag for test equipment SOLO610-001
	468	249227	Telescopic Pole 2.2m SOLO108-001
	473	249360	Test Gas Can SOLOA5-001
	473	249361	Test Gas Can SOLOA10-001

249067 Smoke Detector Test Tool large Detector SOLO332

The structure of the detector tester is similar to that of the Smoke Detector Test Tool SOLO330. However, due to the larger construction, the detector tester is especially suitable for large smoke detectors with a diameter of up to 130 mm.



249232 Smoke Detector Test Tool SOLO365-001

New

The detector test tool is used for checking the function of automatic smoke detectors and smoke aspiration systems. To perform the test, smoke is generated inside the test tool. For this purpose, a replaceable capsule is inserted into the device.

The transparent test head provides unimpeded view to the test object. An integrated lamp automatically lights up when the lighting conditions are poor and allows easy alignment. The construction of the test tool, thanks to its pivoting head and the slim design, allows reaching even mounting places which can be accessed only with difficulty.

The adapter SOLO372 allows the function of smoke aspiration systems and of the low-profile flush-mount smoke detectors Soteria Dimension FL5100-600APO and FL6100-600APO to be checked. For this purpose, the transparent test cup must be replaced by the adapter SOLO372, and the test mode must be activated on the device.

The detector tester can be used together with the Telescopic Poles SOLO100 and SOLO108 as well as with the Extension Pole SOLO101. The delivery scope of the detector test tool includes the test device, a battery, a charging device, a smoke capsule, a smoke generator and a USB charging device. Power is supplied by a lithium-ion battery 3.63 V / 3 Ah.



Specifications:

Energy supply	Lithium-ion battery
Battery voltage	3.63 VDC
Battery capacity	3 Ah
Relative humidity (no condensation)	from 0 % to 85 %
Ambient temperature	from 5 °C to 45 °C
Dimensions Ø × H	190 × 295 mm
Weight	860 g

Cross-references	Page	Art.No.	Name Type
	467	249235	ASD Test Adapter for Detector Tester SOLO372-001
	473	249236	Replacement Smoke Capsule ES3-001

Cross-references	Page	Art.No.	Name Type
	467	249234	Replacement Smoke Generator for Detector Tester SOLO371-001
	468	249053	Telescopic Pole SOLO100
	469	249054	Extension Pole SOLO101
	468	249227	Telescopic Pole 2.2m SOLO108-001
	469	249233	Battery for Detector Tester SOLO370-001
	470	249237	Replacement-Charger for Detector Test Tool SPARE1060-001
	469	249226	Carrying bag for test equipment SOLO610-001

249234 Replacement Smoke Generator for Detector Tester SOLO371-001

New

The replacement smoke generator is needed as replacement part for the detector tester SOLO365.



249235 ASD Test Adapter for Detector Tester SOLO372-001

New

The SOLO372 adaptor replaces the standard test cup on SOLO365 to enable functional testing of aspirating smoke detection systems. The adaptor can also be used to test detectors such as the Soteria Dimension FL5100 and FL6100.



249068 Heat Detector Test Tool Battery SOLO461-101

The heat detector test tool is used for checking thermal fire detectors with rate-of-rise, maximum or combi characteristic up to an alarm temperature of 90 °C (EN 54-5 classes A and B). The unique arrangement of the heat source ensures direct supply of heated air to the temperature sensor of the detector. As a result, the detector housing is only heated up slightly and time as well as energy is saved. The transparent test head provides unimpeded view to the detector activation LED. The construction of the test tool, thanks to its pivoting head, allows reaching even mounting places which can be accessed only with difficulty. With the optional Telescopic Poles SOLO100 and SOLO108 as well as up to 3 Extension Poles SOLO101, it is possible to check detectors which are mounted in rooms of up to approx. 9 m height.



The heat detector test tool is delivered with 2 batteries SOLO770 and a battery charger SOLO727.

Cross-references	Page	Art.No.	Name Type
	468	249053	Telescopic Pole SOLO100
	469	249054	Extension Pole SOLO101
	469	249226	Carrying bag for test equipment SOLO610-001
	468	249227	Telescopic Pole 2.2m SOLO108-001
	469	249231	Battery for Detector Tester SOLO770-001

249228 Heat Detector Test Tool Mains SOLO424-101

The heat detector test tool is used for checking thermal fire detectors with rate-of-rise, maximum or combi characteristic up to an alarm temperature of 100 °C (EN 54-5 classes A, B and C). The unique arrangement of the heat source ensures direct supply of heated air to the temperature sensor of the detector. As a result, the detector housing is only heated up slightly and time is saved.

The transparent test head provides unimpeded view to the detector activation LED. The construction of the test tool, thanks to its pivoting head, allows reaching even mounting places which can be accessed only with difficulty. With the optional Telescopic Poles SOLO100 and SOLO108 as well as up to 3 Extension Poles SOLO101, it is possible to check detectors which are mounted in rooms of up to approx. 9 m height.

The heat detector test tool is operated with 230 VAC mains voltage and comes with a mains cable with a length of 5 m.



Cross-references	Page	Art.No.	Name Type
	468	249053	Telescopic Pole SOLO100
	469	249054	Extension Pole SOLO101
	469	249226	Carrying bag for test equipment SOLO610-001
	468	249227	Telescopic Pole 2.2m SOLO108-001

249052 Detector Removal Tool SOLO200

The universal detector removal tool is used for removing and reinstalling punctiform automatic fire detectors with a diameter of 65 - 110 mm. The clamping mechanism is flexibly mounted on a pole of 0.65 m length and can, therefore, be used even for mounting places that are difficult to access. With the optional Telescopic Poles SOLO100 and SOLO108 as well as up to 3 Extension Poles SOLO101, it is possible to reach detectors which are mounted in rooms of up to approx. 9 m height.



Cross-references	Page	Art.No.	Name Type
	468	249053	Telescopic Pole SOLO100
	469	249054	Extension Pole SOLO101
	468	249227	Telescopic Pole 2.2m SOLO108-001

249053 Telescopic Pole SOLO100

The fibreglass telescopic pole is needed to adjust the detector tester as well as the Detector Removal Tool SOLO200 to the individual room height. The pole measures 1.2 m in retracted condition. The total length in extracted condition is 4.5 m, you can, therefore, reach detectors mounted at a height of up to approx. 6 m.

In combination with up to 3 Extension Poles SOLO101, it is possible to reach detectors which are mounted in rooms of up to approx. 9 m height.



249227 Telescopic Pole 2.2m SOLO108-001

The fibreglass telescopic pole is needed to adjust the detector tester as well as the Detector Removal Tool SOLO200 to the individual room height. The pole measures 1.2 m in retracted condition. The total length in extracted condition is 2.2 m, you can, therefore, reach detectors mounted at a height of up to approx. 4 m.

In combination with up to 3 Extension Poles SOLO101, it is possible to reach detectors which are mounted in rooms of up to approx. 7 m height.



Cross-references	Page	Art.No.	Name Type
	469	249054	Extension Pole SOLO101

249054 Extension Pole SOLO101

The fibreglass extension pole with a length of 1.2 m is needed for using a detector tester or the Detector Removal Tool SOLO200 at room heights of up to 2.5 m.

By connecting up to 3 extension poles to each other, the maximum room height can be increased to approx. 4.5 m. In combination with the Telescopic Poles SOLO100 and SOLO108-001, it is possible to reach detectors which are mounted in rooms of up to approx. 9 m height.



Cross-references	Page	Art.No.	Name Type
	468	249053	Telescopic Pole SOLO100

249226 Carrying bag for test equipment SOLO610-001

By means of the carrying bag, detector testers SOLO330, SOLO332, SOLO461, SOLO424, 1000 and 2000, the poles, spare batteries and other accessories can be safely stored and conveniently carried.



249231 Battery for Detector Tester SOLO770-001

The spare battery in rechargeable NiMH technology with a capacity of 3000 mAh is used to power the detector testers SOLO461, 1000 and 2000 as well as the detector test units Series SCORPION.



Cross-references	Page	Art.No.	Name Type
	469	249230	Charger for Detector Test Tool SOLO727-101

249233 Battery for Detector Tester SOLO370-001

New

The spare battery in rechargeable lithium-ion technology is used to power the detector testers SOLO365.

Specifications:

Energy supply	Lithium-ion battery
Battery voltage	3.63 VDC
Battery capacity	3 Ah



Cross-references	Page	Art.No.	Name Type
	470	249237	Replacement-Charger for Detector Test Tool SPARE1060-001

249230 Charger for Detector Test Tool SOLO727-101

By means of the quick charger SOLO727-101, the rechargeable NiMH batteries SOLO760-001 and SOLO770-001 can be charged within 60 to 90 minutes. The batteries are used to power the detector testers SOLO461, 1000 and 2000 as well as the detector test units Series SCORPION.

The delivery scope includes adapter cables by means of which the charger can be connected to the mains voltage or to the 12 V on-board voltage of a vehicle.



249237 Replacement-Charger for Detector Test Tool SPARE1060-001

New

The replacement charger is used for the Detector Tester SOLO 365. The charger also comes with a USB cable for connecting the charger to the battery.



249225 Silicone Membrane/Solo Detector Tester SPARE-1005-001

The silicone sealing ring is used as replacement part for the detector testers SOLO330 and SOLO461.



249370 Test Unit/Point Detector SCORP1001-001

By means of the test unit, a punctual detector that is mounted in a place that can only be accessed with difficulty can be conveniently tested from afar. The test unit is mounted next to the detector on the ceiling. For this purpose, the mounting plate of the test unit is wedged under the detector base.



The test unit is remote-controlled either through the Portable Controller SCORP7000-001 or through the Control Panel SCORP8000-001. In order to activate the smoke detector, smoke is generated inside the test unit and is blown into the smoke entry port of the detector. After completion of the test, the smoke tube is purged by means of the cleaning function, thereby feeding air into the detector in order to prevent another activation. The test unit contains enough smoke agent for more than 240 tests.

Specifications:

Energy supply	supplied through the controller
Relative humidity (no condensation)	from 0 % to 95 %
Protection class	IP20
Ambient temperature	from 0 °C to 60 °C
Dimensions L × W × H	155 × 54 × 34 mm
Weight	200 g
Colour	white

249371 Test Unit/Aspiration System SCORP2001-001

By means of the test unit, a smoke aspiration system whose sensor pipe is mounted in a place that can only be accessed with difficulty can be conveniently tested from afar. At the end of the sensor pipe, the test unit is snapped onto the pipe by means of clips.



The test unit is remote-controlled either through the Portable Controller SCORP7000-001 or through the Control Panel SCORP8000-001. In order to activate the smoke aspiration system, smoke is generated inside the test unit and is passed into the sensor pipe. After completion of the test, the smoke tube is purged by means of the cleaning function in order to prevent another activation. The test unit contains enough smoke agent for more than 240 tests. Power is supplied via the controller.

Specifications:

Energy supply	supplied through the controller
Relative humidity (no condensation)	from 0 % to 95 %

Protection class	IP20
Ambient temperature	from 0 °C to 60 °C
Dimensions L × W × H	155 × 54 × 34 mm
Weight	200 g
Colour	red

249372 Access Point/Test Unit SCORP25-001

The Access Point SCORP25-001 is mounted in a place on the wall that is readily accessible, and is connected to a Test Unit SCORP1001-001 or SCORP2001-001 through a cable. For the activation of the test unit, the Portable Controller SCORP7000-001 is plugged into the access point. The access point is designed for surface mounting on the supplied plastic box. Alternatively, flush mounting on a 60 mm flush-mount installation box is possible.



Note: Each test unit has to be equipped with its own access point.

Specifications:

Line length max.	100 m
Colour	white

Cross-references	Page	Art.No.	Name Type
	470	249370	Test Unit/Point Detector SCORP1001-001
	470	249371	Test Unit/Aspiration System SCORP2001-001

249373 Portable Controller SCORP7000-001

The portable controller allows you to operate the Test Units SCORP1001-001 and SCORP2001-001. For this purpose, the controller is plugged into the access point of the test unit that belongs to it. The activation of the test unit or the cleaning function is started with buttons. The controller and the test unit are powered by connecting the cylindrical battery SOLO770-001 of a SOLO detector tester to the controller. The connection cable for the battery is included in the delivery scope. Power is supplied by a battery SOLO770-001.



Specifications:

Energy supply	SOLO770-001 battery
Relative humidity (no condensation)	from 0 % to 85 %
Protection class	IP20
Ambient temperature	from 5 °C to 45 °C
Dimensions L × W × H	220 × 95 × 40 mm
Weight	500 g

Cross-references	Page	Art.No.	Name Type
	469	249231	Battery for Detector Tester SOLO770-001
	470	249370	Test Unit/Point Detector SCORP1001-001
	470	249371	Test Unit/Aspiration System SCORP2001-001
	471	249372	Access Point/Test Unit SCORP25-001

249374 Control Panel SCORP8000-001

The control panel allows the connection of up to 8 Test Units SCORP1001-001 or SCORP2001-001. The desired test unit is selected with buttons. After that, the activation of the test unit or the cleaning function can be started.

The control panel and the test unit are powered by connecting the cylindrical battery SOLO770-001 of a SOLO detector tester to the control panel. For the connection of the battery, the optional cable SCORP60-001 is needed. Power is supplied by a battery SOLO770-001.



Specifications:

Energy supply	SOLO770-001 battery
Line length max.	100 m
Relative humidity (no condensation)	from 0 % to 85 %
Protection class	IP40
Ambient temperature	from 5 °C to 45 °C
Dimensions W × H × D	155 × 150 × 37 mm
Weight	500 g

Cross-references	Page	Art.No.	Name Type
	469	249231	Battery for Detector Tester SOLO770-001
	470	249370	Test Unit/Point Detector SCORP1001-001
	470	249371	Test Unit/Aspiration System SCORP2001-001

249375 Battery Connection Cable SCORP60-001

The cable is used to connect the cylindrical battery SOLO770-001 of a SOLO detector tester to a Portable Controller SCORP7000-001 or to the Control Panel SCORP8000-001.

The cable is already included in the delivery scope of the portable controller.



Cross-references	Page	Art.No.	Name Type
	469	249231	Battery for Detector Tester SOLO770-001
	471	249373	Portable Controller SCORP7000-001
	472	249374	Control Panel SCORP8000-001

249222 Replacement Smoke Capsule TS3-001

The replacement capsule is put into a detector tester 1000 or 2000 for generating smoke.



249223 Replacement CO Capsule TC3-001

The replacement capsule is put into a detector tester 2000 for generating carbon monoxide.



249236 Replacement Smoke Capsule ES3-001

New

The replacement capsule is put into a detector tester SOLO365 for generating smoke.



249144 Pen with 6 pcs. Smoke Sticks RE6-SET

The set consists of the smoke pen and 6 smoke elements. With the smoke pen, automatic smoke detectors or smoke aspiration systems can be tested easily and quickly. To do so, the smoke element is lit up, after which it will create a visible smoke trail. The smoke is environmentally compatible and does not contain any harmful or corroding substances.

One smoke element will burn for some 30 minutes and will last for up to 60 detector tests.



249157 Smoke Sticks Pack 6 pcs. RE6

New

The refill pack contains 6 smoke elements for the smoke pen.

249360 Test Gas Can SOLOA5-001

The test gas can contains a non-polluting test gas for checking the function of automatic smoke detectors. The can is suitable for use with Smoke Detector Test Tools SOLO330 and SOLO332.

Note: Since the test gas SOLOA5 is flammable, using it in rooms with ignition sources can be dangerous. Always check the local conditions before using this product.

Specifications:

Filling volume 250 ml



249361 Test Gas Can SOLOA10-001

The test gas can contains a non-flammable test gas for checking the function of automatic smoke detectors. The test gas is free of hydrofluorocarbon and therefore is especially environment-friendly. The can is suitable for use with Smoke Detector Test Tools SOLO330 and SOLO332.

Specifications:

Filling volume 150 ml



249140 Test Gas Can SOLOC3-001

The test gas can with a capacity of 250 ml contains a test gas for checking the function of carbon monoxide fire detectors. The can is suitable for use with Smoke Detector Test Tools SOLO330 and SOLO332.

Specifications:

Filling volume 250 ml



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General Terms of Delivery

issued by the Association of the Austrian Electrical and Electronics Industries (FEEI)
with individual additions by LST

1 Scope

These general terms apply to legal transactions between companies with regard to the delivery of movable physical goods together with the associated firmware and documentation and, analogously, also to the provision of services together with the associated documentation.

2 Offer

2.1 Unless otherwise specified in the offer, offers of the seller shall be considered non-binding.

2.2 The buyer's general terms and conditions shall not apply under any circumstances.

2.3 Any documentation regarding offers and projects must neither be reproduced nor made available to third parties without the seller's consent. The return of such documents may be requested at any time and they shall be returned to the seller immediately.

3 Contract conclusion, amendment and interpretation

3.1 The contract is deemed concluded once the seller has sent a written order confirmation or a delivery or once it has started to perform the service after receipt of the order.

3.2 No warranty claims may be derived nor liabilities established from information provided in catalogues, brochures, advertising material, and written or oral statements by the seller or third parties not included in the contract.

3.3 Any subsequent amendments and/or supplements to the contract (including an amendment of the following formal requirements), its termination as well as all (other) unilateral declarations of intent provided for in the contract or these provisions or in connection therewith shall be made in writing to be valid.

3.4 Unless otherwise agreed, each party shall bear its own costs associated with the execution, performance and termination of the contract.

3.5 For the purposes of interpretation of the contract and in the absence of any express agreement to the contrary in individual cases it is expressly understood that the seller is an independent contractor and that the seller or its owners, partners, employees, consultants or sub-contractors are not or shall not be deemed to be agents, adjuncts, partners, joint ventures or employees of the buyer.

4 Delivery

4.1 Unless otherwise agreed, the delivery period shall commence on the latest of the following dates:

- a) Date of order confirmation;
- b) Date of fulfilment of all technical, commercial and other requirements incumbent upon the buyer;
- c) Date on which the seller receives an advance payment or security that needs to be provided before delivery of the goods.

4.2 Official permits, approvals or certifications by third parties („permits“) that might be required for executing installations shall be obtained by the buyer. Technical preparations, clearing work for construction, provision and inspection of the preliminary work („preliminary services“) shall also be carried out by the buyer to the contractually agreed extent and quality. If such permits or preliminary services are not obtained in time, the delivery period shall be extended accordingly.

4.3 The seller shall be entitled to effect and charge partial or advance deliveries. If delivery on call has been agreed, the goods shall be deemed called up 1 year after the order was placed at the latest.

4.4 In case any unforeseeable circumstances or circumstances outside the parties' sphere of influence such as, for example, all instances of force majeure, occur, which prevent compliance with the delivery period agreed upon, the latter shall be extended by the duration of such impediment in any case; these include, in particular, natural disasters, armed conflicts and terrorist attacks, cyber-attacks, the outbreak and spread of large-scale diseases, endemics, epidemics, pandemics, official interventions and bans, energy and raw material shortages, labour disputes, embargoes and sanctions whose noncompliance with may expose the seller to penalties or other disadvantages, transport and customs clearance delays, delivery stoppages and bottlenecks, transport damage, non-availability of a major supplier who is difficult to replace and other problems along the supply chain. Circumstances such as the aforementioned shall also allow an extension of the delivery period if they occur at the seller's suppliers and/or subcontractors. If the impediment lasts longer than 6 months, the seller shall be entitled, after an unsuccessful attempt to reach an amicable settlement and according to the regulation in item 8.5, to rescind the contract with regard to the parts of the contract that have not yet been performed or the performance of which has not yet commenced.

4.5 If, upon conclusion of the contract, a contractual penalty for default in delivery has been agreed and no deviating provision has been agreed, such penalty shall be paid in compliance with the following provision and, for the rest, any deviation from this provision in individual respects shall not affect its applicability: In case of a delay in performance that has demonstrably occurred solely through the fault of the seller, the buyer shall be entitled to claim, for every full week of delay, a contractual penalty of no more than 0.5 %, up to a maximum of 5 %, of the value of that part of the overall delivery which cannot be used due to the delay in delivery of an essential part, provided a loss was incurred by the buyer in that amount. Any further claims for damages from the delay are excluded if a contractual penalty is agreed upon.

4.6 In the cases described in item 4.4 a contractual penalty is not applicable.

4.7 If acceptance has been agreed, the goods or services shall be deemed fully accepted upon commencement of their use within the scope of the buyer's business or commercial activities at the latest.

4.8 The seller shall be entitled to use subcontractors with regard to all deliveries and services, provided the seller informs the buyer accordingly.

5 Transfer of risk and place of performance

5.1 Unless otherwise agreed, the delivery of the goods shall be deemed sold EXW acc. to INCOTERMS® 2020 – ICC.

5.2 The place of performance of services is primarily the place specified in the written order confirmation, secondarily it is the place where the service is actually performed by the seller. The risk of a performance or partial performance agreed shall vest in the buyer upon performance being effected.

6 Payment

6.1 If no terms of payment have been agreed, 1/3 of the price shall be due upon receipt of the order confirmation, 1/3 after expiry of half the delivery period, and the rest upon delivery. Notwithstanding the above, the VAT included in the invoice shall be paid no later than 30 days following invoicing in each case.

6.2 In case of partial invoices, the partial payments shall be due upon receipt of the relevant invoice. This shall also apply to settlement amounts arising due to subsequent deliveries or other agreements beyond the original final amount, notwithstanding the terms of payment agreed for the main delivery.

6.3 Payments shall be made in the currency agreed to the seller's paying office without any deductions or charges. Any cheques or bills of exchange shall only be accepted as an undertaking to pay. All associated interest and expenses (such as debiting and discount charges) shall be borne by the buyer.

6.4 The buyer shall not be entitled to retain or offset payments on account of warranty claims or other counterclaims. Any discounts, bonuses or other rebates granted are subject to the timely payment in full by the buyer.

6.5 A payment shall be deemed made on the date the seller is able to dispose of the amount paid.

6.6 If the buyer is in default of any agreed payment or other performance from this or any other legal transactions, the seller may – unless otherwise agreed – without prejudice to any other rights the seller may have,

a) postpone fulfilment of its own obligations until said payment or other performance has been effected, and claim an appropriate extension of the delivery period,

b) demand payment of all outstanding receivables from this or other legal transactions and charge statutory default interest for these amounts, with effect from the respective due date, unless the seller is able to provide proof of any additional costs,

c) in the event of qualified insolvency of the seller, i.e. after two instances of default, perform this and other legal transactions only against cash in advance.

At any rate, the seller shall be entitled to invoice pre-trial expenses, in particular dunning expenses and lawyers' fees, according to applicable statutory provisions.

6.7 The seller shall retain title to all goods delivered until full payment of the amounts invoiced plus interest and costs. To secure the seller's purchase price claim, the buyer hereby assigns to the seller its claims from reselling goods subject to retention of title, even after they have been further processed, transformed or mixed. The buyer shall be authorised to dispose of the goods subject to retention of title in case of reselling with payment of the purchase price being deferred, on the condition that the buyer informs the secondary buyer about the assignment for security, concurrently with the resale, or notes down the assignment in its books. Upon request, the buyer shall inform the seller about the claim assigned and the relevant debtor and provide all information and documents required for collection of the claim and to notify the third-party debtor about the assignment. In case of seizure or other claims being made, the buyer shall be obliged to refer to the seller's title and to notify the latter immediately.

6.8 The seller shall be entitled to submit the invoice electronically.

7 Warranty

7.1 In case the terms of payment agreed are complied with, the seller shall be obliged, under the following provisions, to eliminate any defect existing at the time of handover that is detrimental to functionality and based on faulty design or material or poor workmanship.

7.2 Unless otherwise agreed, the statutory period of warranty shall apply. This shall also apply to objects of delivery and performance that are firmly attached to a building structure or to the ground. The warranty period shall commence at the time the risk is transferred under item 5. The limitation period shall commence immediately at the end of the warranty period.

7.3 If delivery or performance is delayed for reasons outside the sphere of influence of the seller, the warranty period shall commence two weeks after the latter's willingness to delivery and/or perform.

7.4 The warranty claim is contingent upon the prerequisite that the buyer has reported any defects that have occurred in writing in due time and that the seller receives this report. The buyer shall provide evidence that the defect exists within an appropriate period of time, in particular by providing to the seller the documents and/or data available on the buyer's premises. In the event of a defect covered by warranty, the seller may first rectify or replace the goods at his discretion. If this is not possible or involves disproportionate costs and effort, buyer and seller may agree on a price reduction. A rescission from the contract on the grounds of warranty is excluded in any case.

7.5 For rectified or replaced parts of the delivery or service, the warranty period starts anew, but ends in any case no longer than 6 months after the end of the initial warranty period.

7.6 Any supporting staff, lifting devices, scaffolding and incidentals required for performing warranty work on the buyer's premises shall be provided to the seller free of charge. Materials and parts replaced by the seller within the scope of the warranty work shall pass into the seller's ownership free of charge.

7.7 If goods are manufactured by the seller based on design descriptions, drawings, models or other specifications provided by the buyer, the seller's liability shall only extend to execution as agreed.

7.8 Unless otherwise agreed, the warranty shall not include any defects that result from arrangement and assembly not effected by the seller, insufficient adjustment, non-compliance with installation requirements and conditions of use, excessive stress on parts beyond the performance specified by the seller, negligent or incorrect treatment and use of inappropriate operating material; this shall also apply to defects resulting from material provided by the buyer. Nor shall the seller be liable for damage resulting from acts by third parties, atmospheric discharges, overvoltage and exposure to chemicals. The warranty shall not cover the replacement of parts that are subject to natural wear.

7.9 The warranty shall lapse immediately once the buyer itself or a third party not explicitly authorised by the seller effects any modifications or repairs to the goods or services without written consent by the seller.

7.10 Items 7.1 to 7.9 shall apply accordingly to every instance of assuming responsibility for defects on other legal grounds.

7.11 Unless otherwise agreed, a statutory updating obligation covered by Directive (EU) 2019/771 is excluded for goods with digital elements and for digital services.

8 Rescission of the contract

8.1 Unless any more specific provision was agreed, the buyer shall be entitled to rescind the contract for default in delivery resulting from gross negligence on the part of the seller and the unsuccessful expiry of a reasonable period of grace granted.

8.2 Notwithstanding its other rights, the seller shall be entitled to rescind the contract

a) if the delivery of the goods and/or commencement or continuation of the performance becomes impossible for reasons within the sphere of responsibility of the buyer or is delayed despite an appropriate period of grace being granted,

b) if concerns with regard to the solvency of the buyer have been raised and the latter does neither make an advance payment upon request by the seller nor provide suitable security before delivery, or

c) if the buyer does not or not duly meet the obligations imposed upon it under item 14.

8.3 Rescission may also be declared with regard to an outstanding part of the delivery or performance for the reasons listed above.

8.4 If insolvency proceedings are opened with respect to the buyer's assets or a request for initiation of insolvency proceedings is rejected for lack of sufficient assets, the seller shall be entitled to rescind the contract without granting a period of grace. If such rescission is declared, it shall become effective immediately once the decision is made not to continue the company. If the company is continued, the rescission shall become effective only 6 months after opening of insolvency proceedings or after rejection of the request for initiation for lack of assets. In any case, the contract shall be terminated with immediate effect, provided that the insolvency law governing the buyer does not provide for otherwise or if termination of the contract is essential to avoid serious financial disadvantages for the seller.

8.5 Notwithstanding the seller's compensation claims including pre-trial costs, in the event of rescission, every performance or partial performance already effected shall be settled and paid as contractually agreed. This shall also apply to any delivery or performance not yet accepted by the buyer as well as for any preparatory measures effected by the seller. The seller shall also be entitled to request the return of products already delivered instead.

8.6 The rescission must be declared by registered letter. Any other consequences of rescission are excluded.

8.7 Any claims asserted by the buyer for *laesio enormis*, error and frustration of contract shall be excluded.

9 Disposal of waste electrical and electronic equipment

The buyer domiciled in Austria shall ensure that the seller is provided with all relevant information enabling it to meet its obligations as a manufacturer/importer according to applicable statutory provisions.

10 Seller's liability

10.1 Unless otherwise agreed, the seller shall be liable for damage outside the sphere of the *Produkthaftungsgesetz* [Austrian product liability act] – in line with statutory regulations – only if its intent or gross negligence is proven. Unless otherwise agreed, the seller's total liability in the event of gross negligence shall be limited to the total net price.

10.2 Unless otherwise agreed, any liability for slight negligence, with the exception of personal injury, and compensation for consequential damage, pure financial loss, indirect loss, production downtime, cost of financing, cost of substitute power, loss of power, data or information, lost profit, savings not achieved, interest losses and losses from third-party claims asserted against the buyer shall be excluded.

10.3 Unless otherwise agreed, all forms of compensation shall be excluded in case of non-compliance with any requirements for assembly, commissioning and use (such as those included in operating instructions) or required permits.

10.4 If contractual penalties have been agreed, any further claims for damages shall be excluded.

10.5 Unless otherwise agreed, the provisions of item 10 shall apply to all liability claims of the buyer vis-à-vis the seller, on any legal ground and title whatsoever, and shall also apply to all staff members, subcontractors and suppliers of the seller.

11 Industrial property rights and copyright

11.1 If a product is manufactured or a service rendered by the seller based on design descriptions, drawings, models or other specifications provided by the buyer, the buyer shall fully indemnify the seller in the event of any violation of property rights.

11.2 Unless otherwise agreed, final planning documents such as plans, drawings and other technical documentation shall remain the intellectual property of the seller at all times, as shall samples, catalogues, brochures, images and the like, and shall be subject to the relevant statutory provisions, inter alia, with regard to reproduction, imitation and competition. Item 2.3 shall also apply to final planning documents.

11.3 For the intellectual property granted for the use of firmware, the seller hereby grants to the buyer the non-exclusive, non-transferable and non-sublicensable right to use this intellectual property at the contractually agreed location in accordance with the contractual specification and for the purposes underlying the contract. All other intellectual property rights are reserved to the seller and its licensors.

12 Assertion of claims

All claims of the buyer shall be asserted in court within 3 years from the time the risk is transferred under item 5, otherwise they shall be forfeited, unless other deadlines are provided for by mandatory statutory provisions.

13 Data protection

13.1 The parties undertake to comply with the provisions and requirements of data protection law, in particular Regulation (EU) 2016/679 („GDPR“) and the *Datenschutzgesetz* (DSG) [Austrian Data Protection Act], in their up-to-date versions, in the course of the execution of the present legal transaction.

13.2 If, in compliance with the aforementioned provisions, further data protection agreements should become necessary for the execution of the legal transaction, the parties shall agree on these separately in writing.

13.3 The seller works with various credit agencies in Austria and Germany to determine the creditworthiness of the buyer. For this purpose, personal data collected as part of this contractual relationship (full name and address) as well as information on any missed payments will be forwarded to one or more of these credit agencies within the framework of the General Data Protection Regulation (GDPR). The credit agencies process and store the data received and also use it for the purpose of profiling. Upon request, the seller

shall inform the buyer of the name and address of the credit agency to which the data is to be transmitted or has already been transmitted.

14 Compliance with export regulations

14.1 The buyer shall comply with the applicable provisions of national and international export control law when passing on the goods delivered or the services rendered, including pertinent documents and technical support of any kind. In any case, the buyer shall comply with the export control regulations of the country from which it exports the goods or services, the EU, the USA and/or the United Nations.

14.2 Prior to passing on the goods or services, the buyer shall verify and take appropriate measures to ensure that a) it does not violate any embargo of the EU, the USA and/or the United Nations – also taking into account any prohibitions of circumvention (e.g. through an unauthorized detour) – by such a passing on, by brokering contracts for such goods or services, or by providing other economic resources in connection with such goods or services; b) such goods or services are not intended for any prohibited or arms-related, nuclear or weapons-related uses that require a permit, unless any required permits have been obtained; c) the provisions of all relevant EU and U.S. sanctions lists concerning business transactions with the above-mentioned companies, persons or entities are complied with; or d) the goods and services mentioned by the respective current versions of the annexes of the applicable EU regulations, such as No. 833/2014 and No. 765/2006 or Annex I of the Dual-Use Regulation (EU) No. 2021/821 are not, in violation of EU law, (i) exported directly or indirectly – e.g. via countries of the Eurasian Economic Union (EAEU) – to Russia or Belarus or (ii) resold to a third party business partner who has not committed in advance not to export the goods or services to Russia or Belarus.

14.3 If required to comply with export regulations, the buyer shall immediately provide to the seller upon request all information regarding the final recipient, the intended use of the goods delivered or services rendered, and any export control restrictions applicable in this respect.

14.4 The buyer shall fully indemnify and hold the seller harmless from and against any and all claims asserted against the seller by authorities or other third parties due to the buyer's or its business partners' failure to comply with the aforementioned obligations due to re-export in violation of sanctions/embargoes pursuant to item 14.2.

15 General information

15.1 If individual provisions of the contract or of these terms & conditions should be invalid, this shall not affect the validity of the remaining provisions. The invalid provision shall be replaced with a valid provision that approximates the intended objective as closely as possible.

15.2 The German-language version shall be deemed the authentic version of the terms & conditions and shall be used to interpret the contract.

16 Place of jurisdiction and applicable law

The exclusive place of jurisdiction for resolving all disputes arising from the contract – including those regarding its existence or non-existence – shall be the court with subject matter jurisdiction at the seller's head office; in Vienna, this shall be the court located in the district of the Local Court of Innere Stadt. The contract shall be governed by Austrian law to the exclusion of conflict of law rules. Application of the UNCITRAL UN Convention on Contracts for the International Sale of Goods shall be excluded.

17 Reservation clause

Performance of the contract on the part of the seller shall be subject to the reservation that no obstacles exist under national or international (re-)export regulations, in particular no embargoes and/or other sanctions.

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