Table of contents

SECURITON

SecuriFire 500/1000/2000/3000

Product Catalogue 2020

Content

1. Introduction

Twice the design, twice as safe.

A fire at a company destroys far more than just property:
It also puts human life at risk and can threaten the economic existence of any business. So the quicker it is detected, the less chance it has of triggering a sequence of disastrous events.
With SecuriFire from Securiton you have at your service a fire detection system that frankly leaves all previous systems standing when it comes to high-tech intelligence and reliability. SecuriFire boasts an innovation that is certainly causing a stir. Its fully redundant system architecture provides twice the safety, and that means that a complete system failure can, in all probability, be excluded. All the hardware and software components have been duplicated, operating in parallel in two separate autonomous systems. If the active system fails, the secondary system takes over full operations – seamlessly.

For a safety map that leaves no blanks.

SecuriFire literally grows along with the tasks you set the system. Indeed the fire detection system is simple to expand or to reduce. Once you have defined your needs, the system topology is adapted accordingly. And thanks to SecuriFire's unique flexibility you obtain exactly the level of protection you need for each area of your building: no more, but – more importantly – no less.

All under control at all times – with the SecuriFire Studio programming tool.

What do you need to plan, program and commission your SecuriFire system? It is simple: a laptop computer. The SecuriFire Studio is an amazing piece of programming equipment. The tool guides you step by step until you have found exactly the right solution for your particular fire detection system. You are able intuitively to design the system topology, position the control units and SecuriLines within the building, and select the right detection and peripheral equipment. It goes without saying that you also have the full support of Securiton's own fire detection specialists. Even when you're redesigning or expanding your company, the programming tool helps you save a lot of time and money. All you have to do is to download the planning data via a service interface to a control unit. The data is then distributed throughout the system using the SecuriLan.

Relax – we're with you all the way.

Security professionals want a strong partner. A partner they can trust whatever happens –
Especially when the going gets tough.
A collaboration with Securiton fits the bill perfectly: the combination of personal consultations, unmatched technical know-how and proximity of our services means all you have to do is relax. Welcome to the safe side.

The descriptions and specifications contained in this Product Catalogue are correct at the time of issue.
We reserve the right to make modifications, in particular for technical reasons. In the course of continual development, the products delivered may vary visually from those shown.
The design of this catalogue is protected by copyright law. The printing or copying of texts, figures and photographs from this document - including extracts - in any type of media (e.g. print, CD-ROM, internet etc.) is only permitted with our explicit written consent. We accept no liability for print errors or obvious mistakes.

2. System Overviews
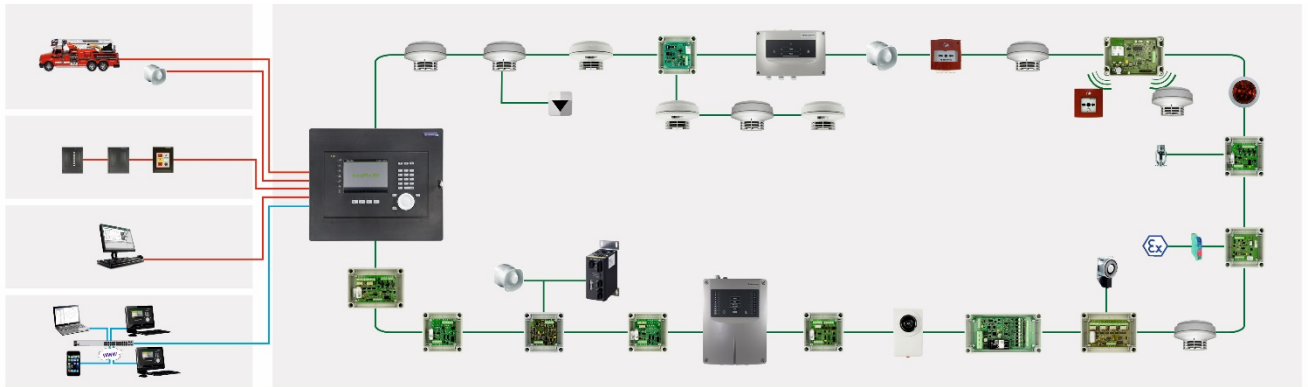
SecuriFire 500
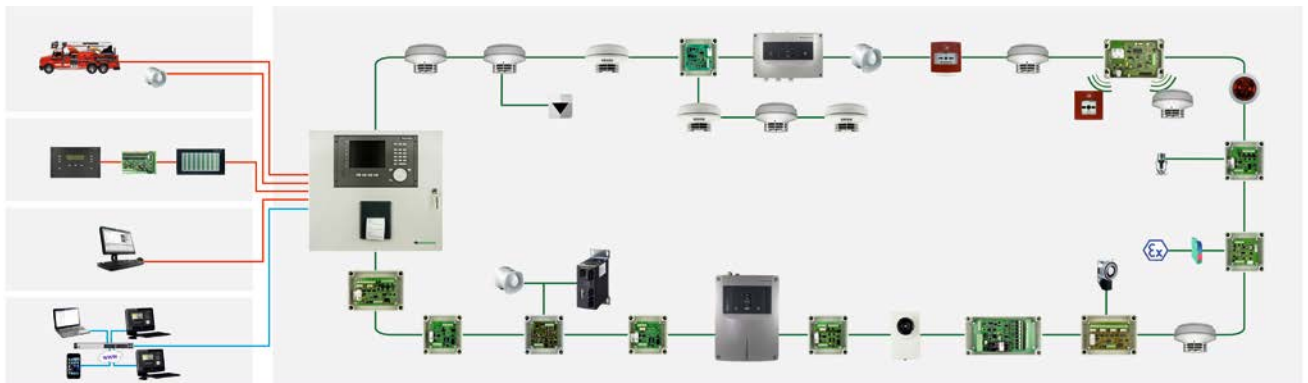
SecuriFire 1000
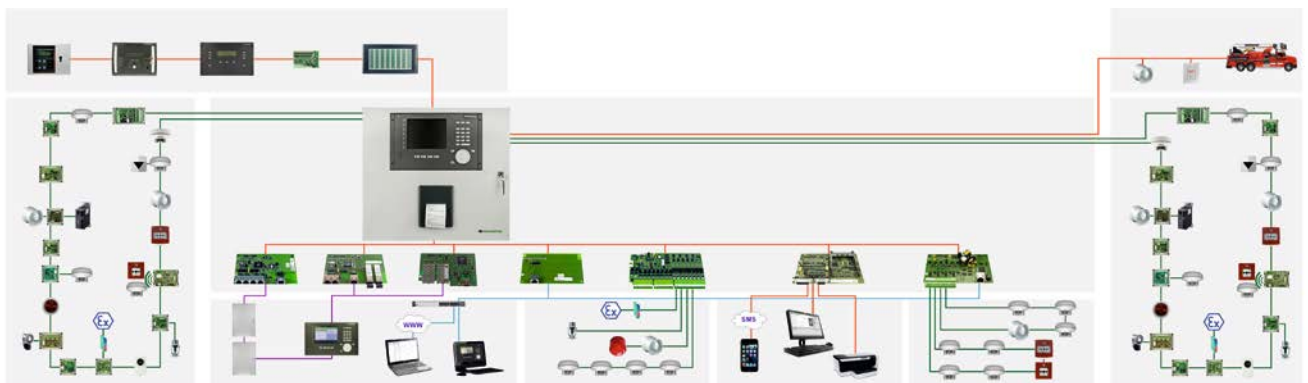
SecuriFire 2000

System Overviews
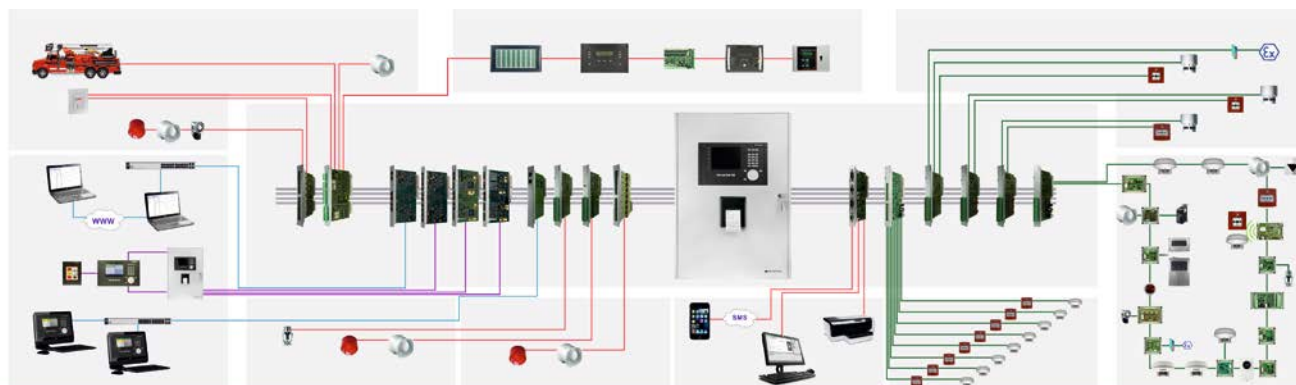
SecuriFire 3000
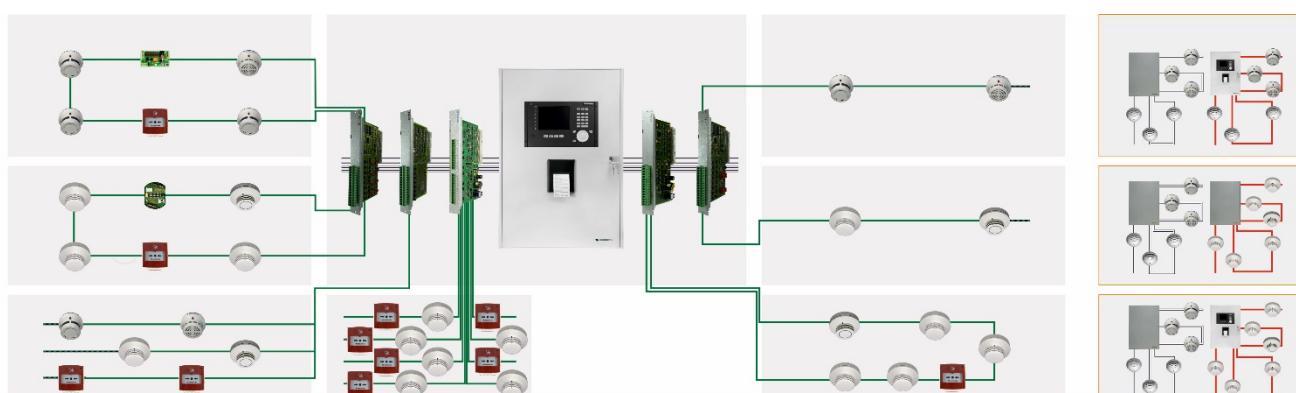
SecuriFire Modernisation

3. SecuriFire System Comparison Chart

	SecuriFire 500	SecuriFire 1000	SecuriFire 2000	SecuriFire 3000
Loops	1	1	Up to 4	Up to 16
Optional: Input / Output	-	X	X	X
Optional: 485/IP Network	-	-	X	X
Optional: Collective detectors	-	-	X	X
Power supply	2,4 A	4 A	4 A	7 A
Extinguishing certified EN12094	-	-	X	X
MMI-BUS	-	X	X	X
EPI-BUS	X	X	X	X
SecuriLan	-	-	X	X
Monitored Input	2	2	2	X
Monitored Output	2	2	2	X
Relay	3	5	5	X

4. Fire Alarm Control Panels

4.1. SecuriFire 500

SCP 500 Cabinet	⚑ DBI	SBSC	VdS	C E

B7-SCP520   SecuriFire 500 Basic Version,   20-1151000-01-03
                        with built-in operating panel

SecuriFire 500 basic version including:
- Polycarbonate cabinet (grey)
- B7-CPB11 Central Processor Unit
- Battery compartment

Mains voltage / Frequency:	
	110/230 VAC +10%-15% 47-63 Hz
Power consumption:	max. 90 W
Output voltage:	26,3 V DC (+50°C) to 28,3 V DC (0°C)
Output current:	2,4 A
Protection class (DIN 40050):	IP30
Operating temperature:	-5°C to +50°C
Weight of basic version:	2,3 kg (without batteries)
Dimensions (HxWxD):	300 x 360 x 80 mm
Cabinet:	Polycarbonate
Color:	anthracite grey (RAL 7016)

Approvals

VdS-Approval:	G 212112
	S 212006
Declaration of Performance (DoP):	CPR-10-18-203

4.2.   SecuriFire 1000

SCP 1000 Cabinet	DBI · SBSC · VdS · CE

B6-SCP1020A   SecuriFire 1000 Basic version,   **20-1150020-01-01**
with built-in operating panel

SecuriFire 1010A basic version including:
- Sheet steel cabinet (grey)
- DOM-cylinder lock
- B6-BCB12A Central processor unit
- B9-PSU Power supply unit (110/230 VAC)
- Power clips and battery cable
- Battery compartment

Mains voltage / Frequency:	
	110/230 VAC + 10% - 15% 47 – 63 Hz
Power consumption:	max. 160 W
Output voltage:	26,3 V DC (+50°C) to 28,3 V DC (0°C)
Output current:	3,9 A
Protection class (DIN 40050):	IP30
Operating temperature:	-5°C to +50°C
Weight of basic version:	8 kg (without batteries)
Dimensions (HxWxD):	445 x 400 x 140 mm
Cabinet:	Sheet steel
Color:	light grey (RAL 7035)

Approvals

VdS-Approval:	G 209049
	S 209049
Declaration of Performance (DoP):	CPR-10-18-201

4.3.   SecuriFire 2000

SCP 2000 Cabinet		DBI SBSC / VdS CE

SCP 2010A

SCP 2020A

SCP 2030A

SCP 2040A

SCP 2050A

B6-SCP2010A	Basic version	**20-1150011-01-01**
B6-SCP2020A	with built-in operating panel	**20-1150012-01-01**
B6-SCP2030A	with built-in operating panel and printer	**20-1150013-01-01**
B6-SCP2040A	with built-in operating panel, printer and cut out for EPI devices or Ext. Zone panel	**20-1150014-01-01**
B6-SCP2050A	with built-in operating panel, and cut out for EPI device	**20-1150015-01-01**

SecuriFire 2010A basic version including:
- Sheet steel cabinet (grey)
- DOM-cylinder lock
- B6-BCB13A Central processor unit
- B9-PSU Power supply unit (110/230 VAC)
- Power clips and battery cable
- Battery compartment

Mains voltage / Frequency:	
	110 / 230 VAC + 10% - 15% 47 - 63 Hz
Power consumption:	max. 160 W
Output voltage:	26,3 V DC (+50°C) to 28,3 V DC (0°C)
Output current:	3,9 A
Protection class (DIN 40050):	IP30
Operating temperature:	-5°C to +50°C
Weight of basic version:	8 kg (without batteries)
Dimensions (HxWxD):	445 x 400 x 140 mm
Cabinet:	Sheet steel
Color:	light grey (RAL 7035)

Approvals

VdS-Approval:	G 209047
	S 209047
Declaration of Performance (DoP):	CPR-10-18-202

Accessories		
SD Card for B5/B6	SD-CARD	FG020325

4.4.   SecuriFire 3000

SCP 3000 Cabinet		🔥DBI SBSC VdS C E

	B5-SCP3010A	Basic version	**20-1050001-01-01**
	B5-SCP3020A	with built-in operating panel	**20-1050002-01-01**
	B5-SCP3030A	with built-in operating panel and printer	**20-1050003-01-01**
	B5-SCP3040A	with built in panel, printer and cut out for EPI-device	**20-1050004-01-01**
	B5-SCP3050A	with built in panel, printer and cut out for MMI-device	**20-1050005-01-01**

SCP 3010A

SecuriFire 3010A basic version including:
- Sheet steel cabinet (grey)
- DOM-cylinder lock
- B5-MCB15A Central Processor Unit
- B8-PSU power supply unit (110/230 VAC)
- Module rack with B8-BUS backplane
- Battery compartment

SCP 3020A

Mains voltage / Frequency:	
	110 / 230 VAC + 10% - 15% 47 - 63 Hz
Power consumption:	max. 280 W
Output voltage:	26,3 V DC (min. At +50°C)
Output current:	7,1 A
Protection class (DIN 40050):	IP30
Operating temperature:	-5°C to +50°C
Weight of basic version:	23,5 kg (without batteries)
Dimensions (HxWxD):	470 x 670 x 230 mm
Cabinet:	Sheet steel
Color:	light grey (RAL 7035)

SCP 3030A

Approvals

VdS-Approval:	G 209045
	S 209045
Declaration of Performance (DoP):	CPR-10-18-200

Accessories		
B5 Advanced Upgrade Kit, SecuriFire	B5-UGKA-SF	20-1050101-01-01
SD Card 1GB for B5/B6	SD-CARD	FG020325

SCP 3040A

SCP 3050A

4.5. SecuriFire Accessories

SecuriFire Control Panel Accessories		
Replacement control boards / indication panels		
Main Indication & Control Panel, non-redundant, for SCP1000A /2000A	B9-MIC11	20-1150200-01-01
Main Indication & Control Panel, redundant, for SCP3000A	B8-MIC11	20-1050200-01-01
Replacement power supply		
Battery cable set for SF500	B7 BATKAB	20-1140000-01-01
Battery cable for SF1000/2000	B6 BATKAB	EI29940
Battery cable set for SF3000	B5 BATKAB1	FG29910
Battery cable set long for SF 3000	B5 BATKAB2	FG29911
Fuse 8A SI for battery cable	ZUB SICH8	IS625040
Battery Extension Box (key lock), max 2 x 12V/45 Ah, size like SecuriFire 3000	B5-ADB 11	10-2000001-01-02
Battery Extension Box, max 2 x 12V/17 Ah, size like SecuriFire 2000	B6-ADB 10	10-2000002-01-02
Connection cabels		
Cable for MMI-BUS with connector (between BAF/PSU and MMI-BUS part.)	B5-STS-MMI-SUB	20-1060040-01-01
Cable for MMI-BUS with connector (between two MMI-BUS part.)	B5-STS-MMI	20-1060041-01-01
Main connection terminals for PSU	B5-STS-KL	20-1060045-01-01
Printer		
Protocol printer device	B5-PDR-DW	FG030550
Internal printer I/F	B5-PIF	EG072906
External printer I/F	B5-PIE-A	EG072914
Various spare parts		
Key for SCP520	DKM SCHL	FG020015
Blind plate for covering free slots	B5-BFP	FG06240-9

4.6. Demo and Test Equipment

SecuriFire 500 Democase

SF 500 DCU   **249706**

The SFD500 is a demonstration case for SecuriFire
Containing B7-SCP520, 1x MCD 573X-SP, 1x CCD 573X,
1x USB 502-20. 1x USB 502-6, 1x RAL 720X and 1x MCP
535X.
For sales demonstration
- Compact Dimension
- Incl. power cable (swiss standard)
- Incl. universal adapter (worldwide)
- Incl. LAN cable to connect the SecuriFire Studio

Power consumption:	max. 75 W
Operating temperature:	-5°C to +50°C
Weight:	9,5 kg
Dimensions (HxWxD):	395 x 422 x 242 mm

5. Software Dongles & Licences

SecuriFire Studio: SecuriFire Studio is the standard PC application complete with all software modules (programs) for project planning, commissioning, maintenance and diagnostics of all control-, indication panels and control maps belonging to the SecuriFire system family and for the detector loop periphery.

Virtual Mic: The virtual control panel SecuriFire VirtualMIC provides a clearly structured, standard-compliant display and control of the fire detection system on a local PC.

Additional Language: Following additional languages are available:
German, English, Czech, Slovak, Hungarian, Italian, Latvian, Croatian, Russian, Swedish, Turkish, Dutch, Romanian, French, Danish, Slovenian, Serbian, Bulgarian, Spanish, Portuguese, Estonian, Bosnian, Arabic, Finnish, Norwegian, Flemish

Detector Stimulation: Alarm stimulation and system check on detector for testing purpose. SecuriFire unit doesn't see stimulation, Alarm looks like a real alarm (Execution of macros, etc.)

SecuriWan: Superordinate, multi-site fire alarm network

Dongle order form available on the Securiton Homepage:

http://www.securiton.com

SecuriFire Studio

License SecuriFire Studio	LIC Studio	VE010962
SecuriFire Virtual MIC simulation on PC (unlimited license)	L MIC Sim	VE010965
Additional Language (check library for availability)	LIC MIC Lang	VE010959
Detector Stimulation (only in combination with SecuriFire available)	LIC Det. Stim	VE010966

SecuriWan

SecuriWan 2.0 normative	SecuriWan 2.0 norm	VE010970

Securiton Dongles

Dongle for Securiton Applications (without license)	ULM-DP	VE100450
Dongle for Securiton Applications (without license) Pack of 5 Dongles	ULM-DP 5	VE100451
Dongle for Securiton Applications (without license) Pack of 10 Dongles	ULM-DP 10	VE100452

6. Indication and Operating Panels

The SecuriFire standard indication and control maps provide well-organized, convenient, standards-compliant display and operation of a SecuriFire system and can be built into an FCP or separately mounted in their own housings.
For VdS approvals please consult the device approvals of the SecuriFire fire alarm control panels.

6.1. Built-in Indication and Operation Panels

Sector extinguisher display	CE

B4-EIP   w/o housing, for panel integration   **FG81624A9K**

Single-zone extinguisher display, for mounting in a SCP 2040/2050.
Internal LED control panel for one extinguishing area,
- Display foil with 12 LEDs for extinguishing area
- Collective display with 9 LEDs
- Key switch for maintenance, extinguishing area in revision
- Labelling is by means of insertion strips

Operating voltage:	22 to 30 V
Current consumption:	2 mA
Operating temperature:	-5°C to +50°C
Dimensions (HxWxD):	145 x 98 x 35 mm

Built in Fire brigade panel CH (for Switzerland)	CE

B5-EPI-FPC-E   w/o housing, for panel integration   **20-1240001-01-02**

Fire brigade panel, for mounting in a SCPxxxx.
Providing an easy man-machine-interface for the fire brigade.
- Language independent application by means of pictograms.
- Connection to EPI-BUS(cable included)

Operating voltage:	22 to 30 V
Current consumption:	2 mA
Operating temperature:	-5°C to +50°C
Dimensions (HxWxD):	145 x 98 x 35 mm

Accessories		
Spare Key for B5-EPI-FPC	Z 12600 SEA	98191
Spare Lock 90° Z12600 for B5-EPI-FPC	SEA ZYL.4.022.2	196282

Indication and Operating Panels

Indication map for 32 alarm lines

VdS CE
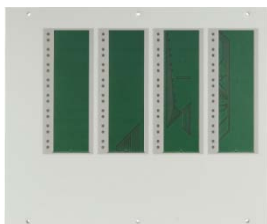
B8-MMI-EAT32 BFE   w/o housing, for panel integration   **20-1240302-01-01**

LED indicator panel for indication of alarm, fault and
disablement states for 32 detector zones.
The labelling uses push-in strips.
Templates for push-in strips available in SecuriFire Studio.
- Connection to EPI-BUS(cable included)

Operating voltage:	10 to 30 V DC
Current consumption:	2 mA per lit LED
Operating temperature:	-5°C to +50°C
Dimensions (HxWxD):	185 x 220 x 35 mm

Panel for 4 extinguishing areas

VdS CE
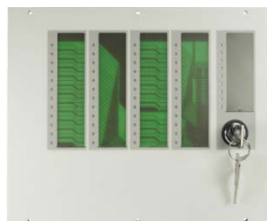
B8-MMI-IPES BFE   w/o housing, for panel integration   **20-1240303-01-02**

LED indicator panel for indication of alarm, fault and
disablement states for 4 extinguish zones.
The labelling uses push-in strips.
Templates for push-in strips available in SecuriFire Studio.
- Connection to MMI-BUS(cable included)

Operating voltage:	10 to 30 V DC
Current consumption:	2 mA per lit LED
Operating temperature:	-5°C to +50°C
Dimensions (HxWxD):	185 x 220 x 35 mm

6.2. External Indication and Operating Panels

The SecuriFire standard indication and control maps provide well-organized, convenient, standards-compliant display and operation of a SecuriFire system and can be built into a FCP or separately mounted in their own housings.

External devices and indication and control maps can be connected to the "EPI-BUS" on each MIC. A maximum of 3 participants can be connected to this data bus at a distance of up to 1 m from the main indication and control map MIC.

Main indication and control map (redundant)	VdS CE

B5-MIC711   20-1230006-01-01

External main indication and control panel for SecuriFire 3000.
User-friendly full operation with "SecuriWheel" and system symbols.

- RS485 interface
- for SecuriFire LAN
- 5.7" TFT-Color Display
- Operation with scroll wheel or functional keys
- 4 different languages changeable online
- Customized menus (optional)
- Up to 1200-m distance between MIC711 and central
- Redundant by double ring crosslinking
- Crosslinking with Ethernet protocol possibly (RX/TX)
- EPI-BUS- Interface
- Interface for external printer B5-MIC-PPE

Operating voltage:	10 to 30 V DC
Current consumption:	213 mA
Protection class:	IP 42
Operating temperature:	-5°C to +50°C
Weight:	1445 g
Dimensions (HxWxD):	276 x 170 x 54 mm
Color:	anthracite grey (RAL 7016)

Indication and Operating Panels

<div style="background-color:green; color:white;">**Main indication and control map (non redundant)**   VdS   C E</div>

B6-MIC711   **20-1230003-01-02**

External non redundant main indication and control panel
for SecuriFire 2000.
User-friendly full operation with "SecuriWheel" and system
symbols.
- RS485 Interface
- for SecuriFire LAN
- 5.7" TFT-Color Display
- Operation with scroll wheel or functional keys
- 4 different languages changeable online
- Customized menus (optional)
- Up to 1200-m distance between MIC711 and central
- Crosslinking with Ethernet protocol possibly (RX/TX)
- EPI-BUS- Interface
- Interface for external printer B5-MIC-PPE

Operating voltage:	10 to 30 V DC
Current consumption:	165 mA
Protection class:	IP42
Operating temperature:	-5°C to +50°C
Weight:	1190 g
Dimensions (HxWxD):	276 x 170 x 54 mm
Color:	anthracite grey (RAL 7016)

Floor indication panel

B5-MMI-FIP   20-1230005-01-01

The SecuriFire floor indication panel provide well organized and convenient announcement of the conditions of the SecuriFire - system.
It contains a monochrome LCD display with 6 lines for the indication of all investment conditions in the clear text.
No inscription on housing front (only announcement elements).

- Connection to MMI-BUS
- LCD display with 6 lines
- Up to 1200-m distance between FIP and central
- EPI-BUS-Interface

Operating voltage:	10 to 30 V DC
Current consumption:	49 mA
Protection class:	IP42
Operating temperature:	-5°C to +50°C
Weight:	775 g
Dimensions (HxWxD):	276 x 170 x 48 mm
Color:	anthracite grey (RAL 7016)

Empty housing with blind cover

EHB 701-1   EPI panel size   12-4400038-01-01

The EHB 701 Empty Housing with Blind cover is for the SecuriFire fire alarm control panel or the SecuriSafe intrusion control panel. It can be used as a distributor box, installation box, or for similar applications.

Protection class:	IP42
Dimensions (HxWxD):	137,5 x 170 x 85 mm
Color:	anthracite grey (RAL 7016)

Universal input-output module
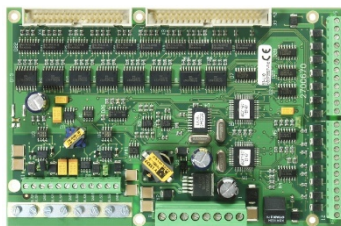
B3-MMI-UIO   EN 54-18   **EG072827**

For controlling the floor plan and parallel display panels or
as a remotely located input/output module for querying
potential-free contacts (sprinkler systems), or also for
controlling non-monitored horns, lamps, relays etc.

- RS485 interface
- Connection to MMI-BUS
- DIN 19244-3 Protocol
- MMI-BUS-Interface
- Cabel length input/output max. 100m

Operating voltage:	10 to 30 V DC
Current consumption:	14 mA
Output voltage:	max. 30 V
Input voltage:	5 V
Operating temperature:	0°C to +50°C
Weight:	150 g
Dimensions (HxWxD):	160 x 105 x 20 mm

Assembly hint:

The box UIO GEH must be ordered separately
See accessories for SecuriFire Units and Boards

External Indicator Panel for 64 DZ
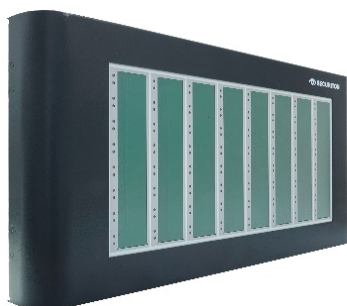
B3-MMI-EAT64-S

20-1230119-01-01

LED indicator panel for indication of alarm, fault and disablement states for 64 detector zones. The labelling uses push-in strips.
Templates for push-in strips available in SecuriFire Studio.
- RS485 interface
- Connection to MMI-BUS
- DIN 19244-3 Protocol
- Up to 1200-m distance between EAT64 and central

Operating voltage:	10 to 30 V
Current consumption:	2 mA per lit LED
Protection class:	IP30
Operating temperature:	0°C to +50°C
Dimensions (HxWxD):	228 x 445 x 48 mm
Color:	anthracite grey (RAL 7016)

External indicator panel for 8 extinguishing zones

B3-MMI-IPEL-S

20-1230120-01-02

External LED indicator panel for eight extinguishing zones (twelve LEDs per extinguishing zone and group indicator with nine LEDs), including case, key switch and controller module. The labelling uses push-in strips.
Templates for push-in strips available in SecuriFire Studio.
- RS485 interface
- Connection to MMI-BUS
- DIN 19244-3 Protocol
- Up to 1200-m distance between IPEL and central

Operating voltage:	10 to 30 V
Current consumption:	2 mA per lit LED
Protection class:	IP30
Operating temperature:	0°C to +50°C
Dimensions (HxWxD):	228 x 445 x 48 mm
Color:	anthracite grey (RAL 7016)

Indication and Operating Panels

Intervention panel SV (for Sweden)

SBSC CE

B5-MMI-IPS-S

20-1230114-01-02

Swedish intervention panel. Displays the relevant operating states to ensure simple operation by the fire brigade. Display message and labels are in Swedish language
- Connection to MMI-BUS
- Up to 1200-m distance between MMI-IPS and central

Operating voltage:	10 to 30 V
Current consumption:	49 mA
Protection class:	IP42
Operating temperature:	-5°C to +50°C
Weight:	500 g
Dimensions (HxWxD):	227 x 170 x 40 mm
Color:	anthracite grey (RAL 7016)

Fire brigade panel SV (for Sweden)

SBSC CE

B5-MMI-FPS-S   MMI-BUS

20-1230117-01-01

B5-EPI-FPS-S   EPI-BUS

20-1230113-01-02

Swedish fire brigade panel. Displays the relevant operating states to ensure simple operation by the fire brigade. Display message and labels are in Swedish language
- B5-MMI-FPS-S connection to MMI-BUS
- B5-EPI-FPS-S connection to EPI-BUS
- Up to 1200-m distance between MMI-FPS / EPI-FPS and central

Operating voltage:	10 to 30 V
Current consumption:	MMI: 49 mA
	EPI: 11 mA
Protection class:	IP42
Operating temperature:	-5°C to +50°C
Weight:	500 g
Dimensions (HxWxD):	227 x 170 x 40 mm
Color:	anthracite grey (RAL 7016)

Fire brigade panel CZ (for Czech Republic)

$C\epsilon$

| **B5-EPI-FPCZ** | EPI-BUS | **20-1240121-01-02** |
| **B5-MMI-FPCZ** | MMI-BUS | **20-1240201-01-01** |

DIN 14662 compliant fire brigade panel indicator panel. Displays the relevant operating states to ensure simple operation by the fire brigade. Provides an interface for extending the installation by a DIN14661 compliant fire brigade control panel. Display message and labels are in Czech language.

- RS485 interface
- Connection to EPI-BUS / MMI-BUS
- DIN 19244-3 Protocol
- Up to 1200-m distance between FPCZ and central

Operating voltage:	10 to 30 V
Current consumption:	MMI: 58 mA EPI: 6 mA
Protection class:	IP30
Operating temperature:	0°C to +50°C
Weight:	2200 g
Dimensions (HxWxD):	185 x 255 x 65 mm
Color:	pebble grey (RAL 7032)

Fire brigade panel CH (for Switzerland)

$C\epsilon$

| **B5-EPI-FPC-GS** | **20-1230001-01-02** |

Fire brigade panel providing an easy man-machine-interface for the fire brigade. Features a language independent application by means of pictograms. Fits neat & nice beside a MIC711 and connects via its EPI bus (cable included).

- Connection to EPI-BUS
- Up to 1200-m distance between EPI-FPC and central

Operating voltage:	22 to 30 V
Current consumption:	2 mA
Protection class:	IP30
Operating temperature:	-5°C to +50°C
Dimensions (HxWxD):	170 x 138 x 48 mm
Color:	anthracite grey (RAL 7016)

Accessories		
Spare Key for B5-EPI-FPC	Z 12600 SEA	98191
Spare Lock 90° Z12600 for B5-EPI-FPC	SEA ZYL.4.022.2	196282

Indication and Operating Panels

Partial Indication and Control Map

VdS CE

B5-EPI-PCM-GS

20-1230111-01-02

For switching and indicating functions in a SecuriFire system. Functions on buttons and LEDs can be configured via software.
- 16 LEDs (8 red and 8 yellow, pair wise)
- 8 push buttons
- Connection to EPI-BUS

Operating voltage:	22 to 30 V
Current consumption:	5 mA
Protection class:	IP42
Operating temperature:	-5°C to +50°C
Dimensions (HxWxD):	170 x 138 x 48 mm
Color:	anthracite grey (RAL 7016)

Partial Indication Map

VdS CE

B5-EPI-PIM-GS

20-1230112-01-02

For status indicaiton of detectors, zones or any other system parts. LEDs can be configured via software.
- 32 LEDs (16 red and 16 yellow, pair wise)
- Connection to EPI-BUS

Operating voltage:	22 to 30 V
Current consumption:	5 mA
Protection class:	IP42
Operating temperature:	-5°C to +50°C
Dimensions (HxWxD):	170 x 138 x 48 mm
Color:	anthracite grey (RAL 7016)

Printer for MIC711

VdS CE

B5-MIC-PPE

20-1230002-01-01

Protocol printer for hard copy documentation of logged events. Comes in a MIC size housing and with the cable to connect it to the MIC711.

Operating voltage:	10 to 30 V
Current consumption:	0 mA
Current consumption (print):	35 mA
Protection class:	IP30
Operating temperature:	0°C to +50°C
Dimensions (with case) (HxWxD):	170 x 138 x 62 mm
Color:	anthracite grey (RAL 7016)

Accessories		
Color cartridge for printer	PD FRB	HG694076
Paper roll for printer	PD PPR	PPF-519057

6.3. Accessories for Indication and Operating Panels

LC-Display for indication panels	CE

CSM 6789   20-1400210-01-01

The LC display CSM 6789 is available as spare part for following indication and control panels
- Firebrigade panel sweden:
  B5-MMI-FPS / B5-EPI-FPS (all versions)
- Intervention panel sweden:
  B5-MMI-IPS (all variations)
- Firebrigade panel finland: B5-MMI-FPF (all variations)
- Floor indication panel SecuriFire: B5-MMI-FIP

Ground connection set for control panels	CE
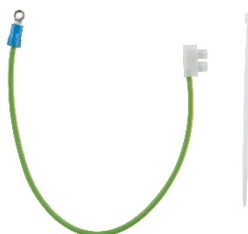
EARTH-SET   20-1400030-01-01

Ground connection set to avoid EMC problems.
When there is no protective conductor (PE) or it is not certain that equipotential bonding is available and the MMI bus is more than 250m away from the control panel.
When powered by an external power supply.
The following products can be grounded using the EARTH-SET:
- B5-MMI-FPS (all versions)
- B5-MMI-IPS (all versions)
- B5-MMI-FPF (all versions)
- B5-MMI-FIP
- B5-MIC711
- B6-MIC711

Indication and Operating Panels Accessories		
Housing parts		
Covering Strip (2 pcs.)	COS701-1	12-4400051-01-01
Back housing part for B5-MIC711	HOP 703-1	10-2300002-01-01
Housing part for EHB 701-1	HOP 701-1	12-4400052-01-01

7. 19'' Cabinet Equipment

Rack Version, incl. B8-PSU, B8-BUS, B8-MCB15, Battery compartment	VdS CE

B5-STS-BGTA-SF   20-1060013-02-01

SecuriFire 3000A B8 Rack for mounting in a 19'' standing cabinet.
Inclusive:
- B8-PSU
- B8-BUS
- B5-MCB15A
- Battery compartment B5-STS-AF

Accessories		
Cable for MMI-BUS	B8-STS-MMI-BAF	20-1060046-01-01

Battery compartment for standing cabinet	VdS

B5-STS-AF   20-1060007-01-01

Battery compartment to store batteries in a 19'' standing cabinet.

Color:	anthracite grey (RAL 7016)

Additional frame 19''

B5-STS-19-ME   **246514**

19" frame for additional SecuriFire 3000A B8 unit racks.

Height units:	5 RU
Material:	Stainless Steel

Front plate for MIC711 or 2 EPI devices	VdS

B5-STS-MIC   20-1060004-01-02

Front plate for MIC711 or 2 EPI devices, for mounting in a 19" standing cabinet.

Height units:	5 RU
Color:	anthracite grey (RAL 7016)

Front plate for MIC711 and EPI device

VdS

B5-STS-MIC2

Mounting frame for 19" standard closet with cut out for one MIC711 and EPI device or 3 EPI devices.

20-1060015-01-01

Height units:	5 RU
Color:	anthracite grey (RAL 7016)

Printer for 19"

VdS CE

B5-STS-PR-2

Front plate for a protocol printer, for mounting in a 19" standing cabinet.

20-1060001-01-02

Height units:	5 RU
Color:	anthracite grey (RAL 7016)

Blind plate small for 19"

VdS

B5-STS-BFP2-2

Blind front plate small, for mounting in a 19" standing cabinet.

20-1060008-01-01

Height units:	1 RU
Color:	anthracite grey (RAL 7016)

Blind plate for 19"

VdS

B5-STS-BFP-2

Blind front plate, for mounting in a 19" standing cabinet.

20-1060003-01-01

Height units:	5 RU
Color:	anthracite grey (RAL 7016)

19'' Cabinet Equipment

External Indicator Panel for 64 DZ 19"

VdS CE
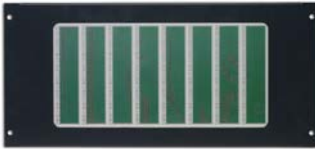
B5-STS-EAT64-2

20-1060011-01-01

LED indicator panel 19'' for indication of alarm, fault and disablement states for 64 detector zones. The labelling uses push-in strips.
Templates for push-in strips available in SecuriFire Studio.
- RS485 interface
- Connection to MMI-BUS
- DIN 19244-3 Protocol
- Up to 1200-m distance between EAT64 and central

Operating voltage:	10 to 30 V
Current consumption:	2 mA per lit LED
Height units:	5 RU
Color:	anthracite grey (RAL 7016)

External Indicator Panel for 8 exting. zones 19"

VdS CE

B5-STS-IPEL-2

20-1060012-01-02

External LED indicator panel 19'' for eight extinguishing zones (twelve LEDs per extinguishing zone and group indicator with nine LEDs), including case, key switch and controller module. The labelling uses push-in strips.
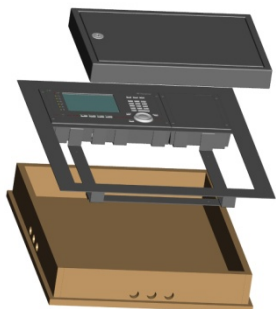Templates for push-in strips available in SecuriFire Studio.
- RS485 interface
- Connection to MMI-BUS
- DIN 19244-3 Protocol
- Up to 1200-m distance between EAT64 and central

Operating voltage:	10 to 30 V
Current consumption:	2 mA per lit LED
Height units:	5 RU
Color:	anthracite grey (RAL 7016)

8. Flush Mounting Frames

FME 70-1	(grey RAL 7016)	**12-4400004-01-01**
FME 70W-11	(white RAL 9016)	**12-4400004-11-01**

Consists from flush mounting case with frame and attachment screw, to SecuriFire indication and control panels. Incl. plan box PLB 70-1/PLB 70W-11
- 1 MIC and 1 small operating device and 1 plan box

Dimensions (HxWxD):	542 x 495 x 90 mm
Color:	anthracite grey (RAL 7016)
	traffic white (RAL 9016)

Accessories		
Frame for flush mounting	FFM 70-1	12-4400002-01-01
Frame for flush mounting white	FFM 70W-11	12-4400002-11-01
Flush mounting case	FMC 70-1	12-4400003-01-01
Plan box	PLB 70-1	12-4400001-01-01
Plan box white	PLB 70W-11	12-4400001-11-01
Spare Key for plan box	Z 12600 SEA	98191

FME 71-1	(grey RAL 7016)	**12-4400013-01-01**

Consists from flush mounting case with frame and attachment screw, to SecuriFire indication and control panels. Incl. plan box PLB 71-1.
- 1 MIC and 1 plan box

Dimensions (HxWxD):	617 x 357 x 90 mm
Color:	anthracite grey (RAL 7016)

Accessories		
Frame for flush mounting	FFM 71-1	12-4400009-01-01
Flush mounting case	FMC 71-1	12-4400005-01-01
Plan box	PLB 71-1	12-4400017-01-01
Spare Key for plan box	Z 12600 SEA	98191

Flush Mounting Frames

Flush mounting kit for MIC711

FME 73-1 (grey RAL 7016) **12-4400015-01-01**

Consists from flush mounting case with frame and attachment screw, to SecuriFire / SecuriSafe indication and control panels.
- 1 MIC or 2 small operating device

Dimensions (HxWxD):	251 x 357 x 90 mm
Color:	anthracite grey (RAL 7016)

Accessories		
Frame for flush mounting	FFM 73-1	12-4400011-01-01
Flush mounting case	FMC 73-1	12-4400007-01-01

Modernisation flush mounting frame
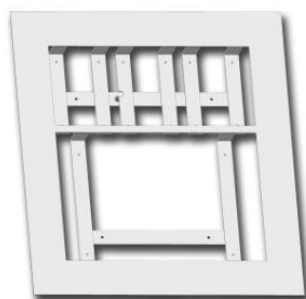
FFM 90-1 (grey RAL 7016) **10-2300001-01-01**

FFM 90W-1 (white RAL 9016) **10-2300001-11-01**

Mounting frame for flush mounting equipment.
The FFM90x-x is a SecuriFire compatible frame and is designed for modernization of flush mounted SecuriPro operating panels.
- 1 MIC, 1 small control map and 1plan box

Dimensions (HxWxD):	620 x 570x 87 mm
Color:	anthracite grey (RAL 7016)
	traffic white (RAL 9016)

9. SecuriFire Units and Boards

9.1. SecuriFire 500 Units

Every basic version of the SecuriFire 500 fire alarm control panel, includes the central processor unit B7-CPB11, there is no additional power supply necessaire as it is included on the main control unit.
The SecuriFire 500 fire control panel is not extendable.
All SecuriFire 500 units are listed in the VdS G 212112 certificate.

Main control unit SF500		VdS CE

B7-CPB11 Repair replacement only **20-1151100-01-04**

The B7-CPB11 main control unit is included in every SecuriFire SCP-520. In conjunction with the B9-PSU power supply unit, it forms the basis for the B6-Advanced SecuriFire SCP 1000A hardware platform. As the main computer board of every SecuriFire SCP 1000A, the B6-BCB13A stores all of the prepared data from the other units.

Mains voltage / Frequency:	
	110/230 V (-15% / +10%) 47 to 63 Hz
Power consumption:	max. 90 W
Output voltage:	26,3 V DC (+50°C) to 28,3 V DC (0°C)
Current consumption:	2,4 A
Weight:	510 g

9.2. SecuriFire 1000 Units

Every basic version of the SecuriFire 1000A fire alarm control panel, includes the central processor unit B6-BCB 12A and the power supply unit B9-PSU.
The SecuriFire 1000A fire control panel is not extendable.
All SecuriFire 1000 units are listed in the VdS G 209049 certificate.

Main control unit 2000A	VdS CE

	B6-BCB12A	Repair replacement only	**20-1150101-01-01**

The B6-BCB12A main control unit is included in the basic configuration of every SecuriFire SCP 1000A. In conjunction with the B9-PSU power supply unit, it forms the basis for the B6-Advanced SecuriFire SCP 1000A hardware platform. As the main computer board of every SecuriFire SCP 1000A, the B6-BCB13A stores all of the prepared data from the other units.

Mains voltage / Frequency:	
	110/230 VAC + 10% - 15% 47 – 63 Hz
Power consumption:	max. 160 W
Output voltage:	26,3 V DC (+50°C) to 28,3 V DC (0°C)
Weight:	373 g

Power supply unit 1000A / 2000A	VdS CE

B9-PSU	Repair replacement only	**20-1100006-01-01**

➔   SecuriFire 2000 Units and Boards

9.3. SecuriFire 2000 Units and Boards

Every basic version of the SecuriFire 2000A fire alarm control panel, includes the central processor unit B6-BCB 13A and the power supply unit B9-PSU.
The expansion boards B4 / B6 / B9-XXX must be equipped on the main unit. All plugs are enclosed.
All SecuriFire 2000 units are listed in the VdS G 209047 certificate.

Main control unit 2000A	VdS CE

B6-BCB13A   Repair replacement only   **20-1150100-01-01**

The B6-BCB13A main control unit is included in the basic configuration of every SecuriFire SCP 2000A. In conjunction with the B9-PSU power supply unit, it forms the basis for the B6-Advanced SecuriFire SCP 2000A hardware platform. As the main computer board of every SecuriFire SCP 2000A, the B6-BCB13A stores all of the prepared data from the other units.

Mains voltage / Frequency:	
	110/230 VAC + 10% - 15% 47 – 63 Hz
Power consumption:	max. 160 W
Output voltage:	26,3 V DC (+50°C) to 28,3 V DC (0°C)
Operating temperature:	0°C to +50°C
Weight:	373 g

Power supply unit 1000A / 2000A	VdS CE

B9-PSU   Repair replacement only   **20-1100006-01-01**

The B9-PSU power supply unit is included in the basic configuration of every SecuriFire SCP 2000A. In conjunction with the B5-BCB13A main control board, it forms the basis for the B5-Advanced SecuriFire SCP 2000A hardware platform.

Mains voltage / Frequency:	
	110/230 VAC + 10% - 15% 47 – 63 Hz
Output voltage:	5 x 27 V DC
Output current:	3,9 A
Operating temperature:	0°C to +50°C
Weight:	1075 g

SecuriFire Units and Boards

SecuiLIne eXtended board

B6-LXI2

20-1100002-01-01

For connecting a further two addressable loops with detectors and modules featuring SecuriLine eXtended addressable loop technology to the SecuriFire 2000. Alternatively one addressable loop and two stub lines or four stub lines can also be connected. The unit also has a LAN interface. This means that all the options of a LAN interface can be used even with 4 loops. The unit is fitted to the main control unit B6-BCB13A.

Power supply:	internal via System-BUS
Current consumption:	31 mA
Output voltage:	30 V DC ±3%
Operating temperature:	-5°C to +50°C
Weight:	140 g

Network interface board

B6-NET2-485

EG072934

For redundant networking of SecuriFire 2000 control panels or for redundant connection of PC applications. The module consists of 2 network connectors (RS485 interface) and one 100Base-TX interfaces. The module is connected to the B6-BCB13A main processor unit.

Power supply:	internal via System-BUS
Current consumption:	53 mA
Operating temperature:	-5°C to +50°C
Weight:	140 g

Serial interface board

B4-USI

EG072834

The B4-USI is a universal communication unit and serves to connect SecuriFire 2000 to management systems and to actuate external printers, pagers, ComBox, telephone servers, etc. The link to management systems is line type. The selection of operation mode of the interface pair parameters is performed by programming.

Power supply:	internal via System-BUS
Current consumption:	21 mA
Operating temperature:	-5°C to +50°C
Weight:	120 g

Network interface board   VdS CE

B6-NET2-FXS

20-1100000-01-01

For redundant networking of SecuriFire 2000A control panels or for redundant connection of PC applications. The module consists of 3 network connectors (1x RS485 interface, 2x FXS) and one 100Base-TX interface. The module is connected to the B6-BCB13A main processor unit.

Power supply:	internal via System-BUS
Current consumption:	99 mA
Operating temperature:	-5°C to +50°C
Weight:	140 g

Network interface board   VdS CE

B6-NET2-FXM

20-1100001-01-01

For redundant networking of SecuriFire 2000 control panels or for redundant connection of PC applications. The module consists of 3 network connectors (1x RS485 interface, 2x FXM) and one 100Base-TX interface. The module is connected to the B6-BCB13 main processor unit.

Power supply:	internal via System-BUS
Current consumption:	122 mA
Operating temperature:	-5°C to +50°C
Weight:	140 g

## Network interface board   VdS CE

B9-NET-FX4

20-1100030-01-01

For redundant networking of SecuriFire 2000 control panels or for redundant connection of PC applications. The module consists of 4 network connectors (4xFX (SM/MM)) and one 100Base-TX interface. The module is connected to the B6-BCB13 main processor unit.

Power supply:	internal via System-BUS
Current consumption:	87 mA + 30 mA for each SFP
Operating temperature:	-5°C to +50°C
Weight:	140 g

SecuriFire Units and Boards

Input/Output board   VdS CE
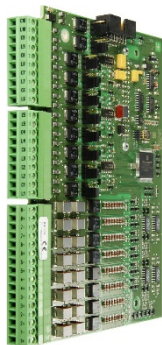
B6-EIO   20-1100003-01-02

The B6-EIO Unit includes 10 monitored inputs and 8
monitored outputs as well as the control electronics for the
LED indication panel, which is built into the door of every
SecuriFire ECP/FEP 2000.
The unit was developed for standards-compliant actuation
of an extinguishing area. However, in accordance with its
features, it can also be used in other ways.

Power supply:	internal via System-BUS
Current consumption:	31 mA
Operating temperature:	0°C to +50°C
Weight:	160 g

Accessories		
Resistor set for B6-EIO	EIO-EXT-RES	20-1140001-01-01

9.4. **SecuriFire 3000 Units and Boards**

Every basic version of the SecuriFire 3000A fire alarm control panel, includes the central processor unit B5-MCB15A and the power supply unit B8-PSU.
All modules and components of the SecuriFire system are redundant for system availability reasons, which also guarantee in the event of a fault that indication information, signal processing and the controlling of all connected fire alarm devices is ensured.
All SecuriFire 3000 units are listed in the VdS G 209045 certificate.

Slot Allocation:

1. Main Control Board B5-MCB15A   in slot 1   Mandatory
2. Power Supply Unit B8-PSU   in slot 10   Mandatory
3. LAN, NET2-485 or NET4-485   in slot 2
4. Relay modules REL10/16/16E   in slot 11 to 13
5. BAF or MRI16   in slot 9
6. Slot 9 needs to be equipped in order to enable slots 11 to 13
7. Slots 3 to 9 are for all other boards.

Main control unit 3000A		VdS	CE

B5-MCB15A   Repair replacement only   **20-1050100-01-01**

The B5-MCB15A main control board is included in the basic configuration of every SecuriFire SCP 3000A. In conjunction with the B8-BUS and the B8-PSU power supply unit, it forms the basis for the B5-Advanced SecuriFire SCP 3000A hardware platform. As the main computer board of every SecuriFire SCP, the B5-MCB15A stores all of the prepared data from the other boards.

Mains voltage / Frequency:	
	110/230 VAC + 10% - 15% 47 – 63 Hz
Power consumption:	max. 280 W
Output voltage:	26,3 V DC (min. at +50°C)
Weight:	210 g

Power supply unit 3000A		VdS	CE

B8-PSU   Repair replacement only   **20-1000008-01-04**

The B8-PSU power supply unit is included in the basic configuration of every SecuriFire SCP 3000A. In conjunction with the B8-BUS and the B5-MCB15A main control board, it forms the basis for the Advanced SecuriFire SCP 3000A hardware platform.

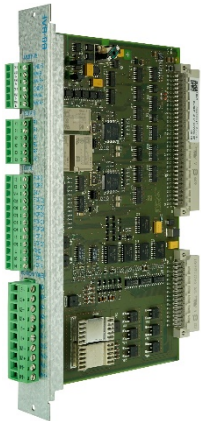|	
Mains voltage / Frequency:	
	110/230 VAC + 10% - 15% 47 – 63 Hz
Output voltage:	5 x (21,0 to 27,9 V)
Output current:	max. 7,1 A
Weight:	1150 g

SecuriFire Units and Boards

Control board

VdS CE

B8-BAF

20-1000011-01-04

For connecting fire brigade control panels, transmission equipment (main detectors), alarm systems (sirens) and for controlling the relay bus. The module also controls an interface for the MMI-BUS (bus for external devices) to which external operating panels, a fire brigade operating panel and other devices are connected.

Power supply:	internal via System-BUS
Current consumption:	typ. 60 mA
Output voltage:	22 to 28 V DC
Output current:	max. 1,5 A
Operating temperature:	-5°C to +50°C
Weight:	265 g

System configuration hint:
The jumpers for the MMI BUS termination are in closed position.
Compatible with SecuriFire Studio ≥2.2.0.
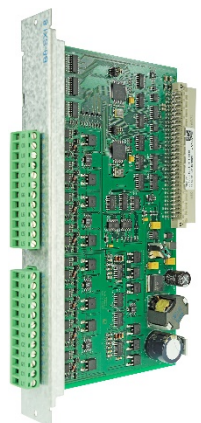
SecuiLine eXtended board

VdS CE
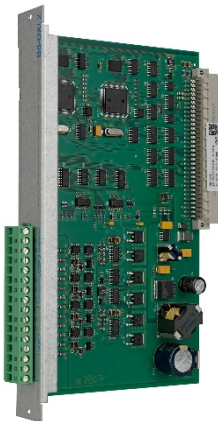
B8-DXI2

20-1000012-01-01

For connecting two addressable loops with detectors and modules featuring SecuriLine eXtended addressable loop technology to the SecuriFire 3000A. Alternatively one addressable loop and two stub lines or four stub lines can also be connected.

Power supply:	internal via System-BUS
Current consumption:	35 mA
Output voltage:	30 ±3% V DC
Operating temperature:	-5°C to +50°C
Weight:	225 g

SecuiLine eXtended board

VdS CE

B8-SXI8

20-1000010-01-03

For connecting eight addressable stub lines with detectors and modules, featuring SecuriLine eXtended addressable technology to the SecuriFire 3000A.

Power supply:	internal via System-BUS
Current consumption:	43 mA
Output voltage:	30.6 ±3% V DC
Operating temperature:	-5°C to +50°C
Weight:	266 g

Network interface board
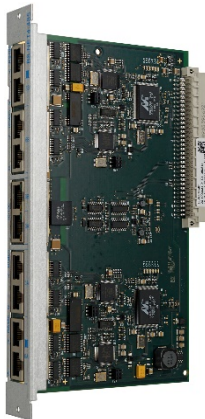

B8-NET2-485

20-1000033-01-01

For redundant networking SecuriFire control panels or for redundant connection of PC applications. The module consists of two network connectors (RS485 interface) and two 100Base-TX interfaces. On the front side there are 6 RJ-45 sockets for connecting from the sub control unit network and to the Ethernet.

Power supply:	internal via System-BUS
Current consumption:	120 mA
Operating temperature:	-5°C to +50°C
Weight:	2250 g

System configuration hint:
Can only be operated in connection slot 2 of the module rack.

Network interface board
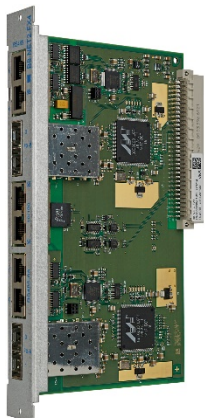

B8-NET4-485

20-1000034-01-01

For redundant networking of SecuriFire control panels or for redundant connection of PC applications. The module consists of four network connectors (RS485 interface) and two 100Base-TX interfaces. On the front side there are 10 RJ45 sockets for connecting from the sub control unit network and to the Ethernet.

Power supply:	internal via System-BUS
Current consumption:	127 mA
Operating temperature:	0°C to +50°C
Weight:	225 g

System configuration hint:
Can only be operated in connection slot 2 of the module rack.

Network interface board

B8-NET2-FX4

20-1000030-01-01

For redundant networking of SecuriFire 3000 control panels or for redundant connection of PC applications. The module consists of 5 network connectors (4x SFP FX (S/M)) and one 100Base-TX interface.

Power supply:	internal via System-BUS
Current consumption:	194 mA + 30 mA per SFP
Operating temperature:	0°C to +50°C
Weight:	225 g

System configuration hint:
Can only be operated in connection slot 2 of the module rack.

SecuriFire Units and Boards

Network interface board

VdS CE

B8-NET-FX8

20-1000031-01-01

For redundant networking of SecuriFire 3000 control panels or for redundant connection of PC applications. The module consists of 8 network connectors (8x SFP FX (S/M)) and one 100Base-TX interface.

Power supply:	internal via System-BUS
Current consumption:	226 mA + 30 mA per SFP
Operating temperature:	0°C to +50°C
Weight:	225 g

System configuration hint:
Can only be operated in connection slot 2 of the module rack.

BACnet interface board

VdS CE

B5-BIM 15-1

269062

The B5-BIM 15-1 is a BACnet / IP interface for use in SecuriFire 3000 fire alarm control panels.
It is a board that can be used in slots 2 to 9 of the unit rack. The B5-BIM 15-1 represents information about the state of the fire detection and fire alarm system as BACnet objects and makes the information available to, for example, a management system. BACnet is a worldwide standard protocol for building automation. Several physical interface outputs are available on the B5-BIM 15-1 such that connection is possible via SFP and 100Base-TX interface.

Power supply:	internal via System-BUS
Current consumption:	9 to 36 V
Power consumption:	250 mA
Additional per SFP-Module Singlemode	40 mA
Additional per SFP-Module Multimode	50 mA
Operating temperature:	0°C to +50°C
Weight:	225 g

Serial interface board
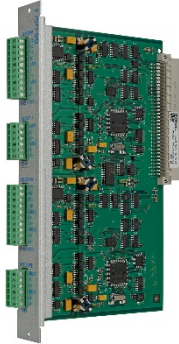
B8-USI4

20-1000032-01-01

For connecting SecuriFire sub control units to control systems, for controlling external printers, pagers, ComBox units, telephone servers etc. A total of 4 redundant, serial, asynchronous interfaces can be used as redundant RS485 connections in half-duplex mode (for loops) or as non-redundant RS 422 connections in full-duplex mode (for lines). Furthermore, two of the four interfaces can also be operated as RS 232 in full-duplex operation (line) each with 2 control circuits. The selection of each interface's operating mode is done by programming and hardware configuration.

Power supply:	internal via System-BUS
Current consumption:	20 mA
Operating temperature:	0°C to +50°C
Weight:	225 g

System configuration hint:
A maximum of five B8-USI4 units can be fitted per sub control unit.

Monitored output board


B8-OM8

20-1000020-01-01

This indicating Circuit Controller is designed for efficient, addressable control of sounders, sirens, bells and strobes. The maximum output current of 1,3 A per output and 3A per block of four lines (1 to 4 and 5 to 8) assures meeting all requirements for signaling devices. The outputs are monitored for short circuits and wire breaks.

Power supply:	internal via System-BUS
Current consumption:	26 mA
Operating temperature:	0°C to +50°C
Weight:	216 g

System configuration hint:
The total output current of the module depends on the capacity of the power supply unit and overall system load connected to it.

SecuriFire Units and Boards

Monitored input board	VdS	CE
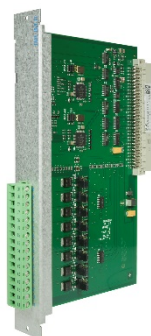
B8-IM8   **20-1000021-01-01**

The B8-IM8 is designed to provide an interface between conventional detectors and the SecuriFire panel. It enables the panel to use each of the eight channels individually to monitor the presence and operation of up to 32 conventional detectors per channel (max. 256 detectors) or up to 10 Ex rated detectors in intrinsically safe applications using Z787 safety barriers or to monitor proper operation of an activated device such as valves, doors etc...
Allows for VdS compliant monitoring of extinguishing devices.
Designed and approved for Hekatron 130 Series and specific Hochiki Ex rated detectors. Please refer to the product data sheet for related information.
The inputs are supervised for open and short circuits. Each channel / input is individually programmable and configurable using configuration software and on-board jumpers.

Power supply:	internal via System-BUS
Current consumption:	9 mA
Operating temperature:	0°C to +50°C
Weight:	220 g

Alarm line board	VdS	CE
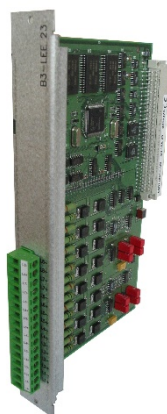
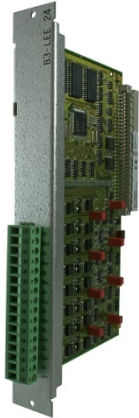**B3-LEE23**   Detectors series 140   **EG072851**

For connecting up to 8 stub lines each with a maximum of 30 series 140 detectors. A maximum of five B3-LEE23 modules can be fitted to connection slots 2 to 8 of a SecuriFire module rack, however this module is only permitted for use in cases where the system is being reconditioned due to the terms of the approvals of the module.

Power supply:	internal via System-BUS
Current consumption:	22 mA
Operating temperature:	0°C to +50°C
Weight:	210 g

System configuration hint:
A maximum of five B3-LEE23 modules can be operatetd in slots 2 to 8 of the SecuriFire module rack.

Alarm loop board

VdS CE

### B3-LEE24   Detectors series 150   EG072852

Refurbishing module for old installations based on HX 150 detectors. Provides 4 addressable loops supporting HX protocol and 127 HX 150 detectors each.

Power supply:	internal via System-BUS
Current consumption:	27 mA
Operating temperature:	0°C to +50°C
Weight:	210 g

System configuration hint:
A maximum of five B3-LEE24 modules can be operatet in slots 2 to 8 of the SecuriFire module rack.

Relay board

VdS CE
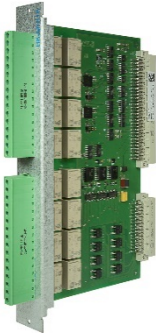
B8-MRI16   20-1000022-01-01

The module offers 16 bi-stable, freely programmable 24 V/3 A relay contacts. Whether a contact is Normally Open (NO) or Normally Closed (NC) is software configurable. By programming a fail-safe position the status of every individual relay can be defined in the event of a supply voltage failure or the fire alarm control panel being switched off. The B5-MRI16 can be fitted in any of the slots 2-9 of the SecuriFire module rack.

Power supply:	internal via System-BUS
Current consumption:	4 mA typ. (battery current)
Operating temperature:	0°C to +50°C
Weight:	220 g

System configuration hint:
The B8-MRI16 is able to drive the expansion bus (slots 11 to 13) when placed in slot 9.
Doing so will allow you to run relay modules of type B3-REL10, B3-REL16 and B3-REL16E plugged in slot 11 to 13.

SecuriFire Units and Boards

Relay board with 230V contacts

B3-REL10   **20-1000003-01-02**

The module contains 10 bi-stable, freely programmable 230 V/3 A relay contacts. Whether a contact is a make contact or a break contact is ascertained by configuration using software. By programming a fail-safe position the status of every individual relay can be defined in the event of a supply voltage failure or the fire alarm control panel being switched off. A module of type B8-BAF or B5-MRI16 must be fitted to connection slot 9 of the SecuriFire module rack for controlling the relay.

Power supply:	internal via System-BUS
Current consumption:	max. 3 A
Operating temperature:	-5°C to +50°C
Weight:	285 g

System configuration hint:
Can only be operated in connection slot 11 to 13 of the module rack.

Relay board with 24V contacts

B3-REL16   **20-1000004-01-02**

The module contains 16 bi-stable, freely programmable 24 V/3 A relay contacts and is used for controlling sirens, holding magnets, relays etc. Whether the contact is a make or break contact is determined by software-based programming. By programming a fail-safe position the status of every individual relay can be defined in the event of a supply voltage failure or the fire alarm control panel being switched off. A module of type B8-BAF or B5-MRI16 must be fitted to connection slot 9 of the SecuriFire module rack for controlling the relays.

Power supply:	internal via System-BUS
Current consumption:	max. 3 A
Operating temperature:	-5°C to +50°C
Weight:	315 g

System configuration hint:
Can only be operated in connection slot 11 to 13 of the module rack.

Relay board with fused 24V outputs VdS C€

B3-REL16E **20-1000005-01-01**

Identical to module B3-REL16 in terms of technical specifications and function, but with additional fused relay contacts (the fuses are not monitored) and resistors (3.3kΩ monitoring resistance and 680 Ω working resistance) for use as a VdS extinguishing interface. Using jumpers it is possible to choose between normal relay contacts and VdS interfaces.

Power supply:	internal via System-BUS
Current consumption:	max. 3 A
Operating temperature:	-5°C to +50°C
Weight:	315 g

System configuration hint:
Can only be operated in connection slot 11 to 13 of the module rack.

9.5. SecuriFire Units and Boards Accessories

SecuriFire Accessories		
Connectors		
Pluggable Terminal Block (set of 2) for REL10 front screw	ST-SET REL10	20-1040101-01-01
Pluggable Terminal Block (set of 2) for REL16/16E, MRI, front screw	ST-SET REL16	20-1040100-01-01
Connector SXI8	ST-SET SXI8	20-1040102-01-01
Connector set for B8-BAF	ST-SET BAF	20-1040103-01-01
Connector for B4/B6-EIO inputs, 2 pcs	ST-SET-EIO	FG74109
Connector REL10	ST-SET REL10	20-1040101-01-01
Connector REL16	ST-SET REL16	20-1040100-01-01
Connector B4-LOOP/DAI	ST-LOOP/DAI	YK130295
Connector B4-REL6	ST-REL6	YK130297
Connector BAF/FBD	ST-BAF-FBD	YK130459
Connector for 16pin interfaces (i.e. DAI2/DXI2)	ST-B3 16	YY970138
Connector DCI6	ST-DCI6	FG74099
Connector MTI8/IM8, angulate (2 pcs., screwable on the side)	ST-MTI8	FG74087
Connector OM8	ST-OM8	FG74095
Connector PSU5	ST-PSU5	FG74090
Connector B8-PSU with front screw connection without labelling or coding	ST-PSU5 F	239660
SFP-Module Multimode	SFP-MODUL MM	20-1400006-01-02
SFP-Module Singlemode	SFP-MODUL SM	20-1400005-01-02
SFP-Module Singlemode 30km	SFP-MODUL SM 30	20-1400007-01-01

SecuriFire Accessories

Various Spare Parts

	I/F converter	ADAM 4520	FG020212
	Plastic box for UIO Dimensions (HxWxD): 182 x 180 x 90 mm	UIO GEH	FG69041
	Steel plate for module UIO	UIO STP	FG05203
	Connection cable with connector 34 pin, 1m	UIO KAB34	FG81725
	Connection cable with connector 40 pin, 1m	UIO KAB40	FG81726

10. SecuriLine eXtended Modules

SDI 82X-1 3 Inputs 1 Output **10-1200000-01-01**

Addressable I/O module typically connected to Manual Call points (MCP), Pull Stations, Smoke Switches or Door monitors. For SecuriLine eXtended.
Provides 3 inputs and 1 output, freely programmable
With emergency alarm transmission.

Operating voltage:	12 to 30 V DC
Current consumption:	0,300 mA
Operating temperature:	-25°C to +70°C
Weight:	13 g
Dimensions (HxWxD):	22 x 32 x 14 mm

Approvals

VdS-Approval:	G 211046
Declaration of Performance (DoP):	CPR-10-14-105

BX-SCU **20-2100022-01-01**

For an addressable stub line installation within a SecuriLine eXtended. Up to 32 devices can be connected to the stub line. A maximum of 128 devices per SecuriLine eXtended with BX-SCU are possible.

Operating voltage:	13 to 30 V DC
Current consumption:	0,47 mA
Protection class:	IP00
	with case IP66
Operating temperature:	-20°C to +60°C
Weight:	31 g
Dimensions (HxWxD):	67 x 67 x 20 mm
	with case 94 x 94 x 57 mm

Approvals

VdS-Approval:	G 217030
Declaration of Performance (DoP):	CPR-20-17-020

Assembly hint:
The box GEH MOD IP66 must be ordered separately
See accessories for loop modules

In-/Output Module   VdS CE

BX-OI3   **20-2100001-01-04**

Contains a relay output with a programmable fail-safe position, two inputs for monitored querying of potential-free contacts and an optocoupler input for monitoring external voltages. In addition, the voltage on the loop circuit is internally monitored for low voltage. The BX-OI3 is particularly well-suited for connecting special detectors (flame and line detectors, smoke aspirating systems etc.). Both the addressing of the module and the setting of parameters for connected special detectors (e.g. how they behave when there is an alarm or a fault) is carried out via the fire alarm control panel using PC software.
An IP66 protection class plastic case is used for fitting the module, which can be fitted with various different cable inlets as required. Shipped including 4,180 Ohm resistors for the monitored inputs.

Operating voltage:	12 to 30 V DC
Current consumption:	0,55 mA
Protection class:	IP00
	with case IP66
Operating temperature:	-20°C to +60°C
Weight:	37 g
Dimensions (HxWxD):	67 x 67 x 20 mm
	with case 94 x 94 x 57 mm

Approvals

VdS-Approval:	G 210133
Declaration of Performance (DoP):	CPR-20-13-005

Assembly hint:
The box GEH MOD IP66 must be ordered separately
See accessories for loop modules

Relay Output Module

BX-REL4

20-2100004-01-03

Provides for four potential free relay outputs with a contact rating of 2A @ 230V. Each relay allows for COMMON, NORMALLY OPEN and NORMALLY CLOSED contacts. Each input is freely programmable using SecuriFire Studio. The module is also suitable for emitting switching impulses. The relay outputs can be switched to a fail-safe position in the event of voltage loss on the loop circuit, and the voltage on the loop circuit is also internally monitored for under voltage. It fits nicely in the IP66 rated enclosure listed below which allows for different cable inlets.

Operating voltage:	12 to 30 V DC
Current consumption:	0,51 mA
Protection class:	IP00 with case IP66
Operating temperature:	-20°C to +60°C
Weight:	64 g
Dimensions (HxWxD):	67 x 67 x 20 mm with case 130 x 94 x 57 mm

Approvals

VdS-Approval:	G 210134
Declaration of Performance (DoP):	CPR-20-13-008

Assembly hint:
The box GEH MOD IP66 must be ordered separately See accessories for loop modules

Monitored Input / Output Module   VdS CE

BX-IOM   **20-2100002-01-09**

For controlling monitored devices, which are supplied with power by an external power supply (e.g. sirens etc.). The module contains a short circuite resistant monitored output (suitable for continuous operation of fur a configurable pulse emmision with emission time limitation) and galvanically isolated input which can be used either as a voltage on the loop circuite is internally monitored for undervoltage. Both the addressing of the module an the setting of its parameters, which are set seperatly for every input, are carried out using PC software via the fire alarm control panel.

Operating voltage:	10 to 30 V DC
Current consumption:	0,46 mA
Protection class:	IP00 with case IP66
Operating temperature:	-20°C to +60°C
Weight:	30 g
Dimensions (HxWxD):	67 x 67 x 20 mm with case 94 x 94 x 57 mm

Approvals

VdS-Approval:	G 210132
Declaration of Performance (DoP):	CPR-20-13-006

Assembly hint:
The box GEH MOD IP66 must be ordered separately See accessories for loop modules

Monitored Input Module

VdS C€

BX-IM4

20-2100003-01-03

For indication and monitoring of various types of acknowledgements, e.g. door contacts, fire zones, extinguishing systems, sprinkler messages, etc. The module contains 4 inputs for monitored and non-monitoring querying of potential-free contacts, which are suitable for processing switching states of longer than 330ms. Both the addressing of the module and the setting of its parameters, which are set separately for every input, are carried out using PC software via the fire alarm control panel. An IP66 protection class plastic case is used for fitting the module, which can be fitted with various different cable inlets as required.

Operating voltage:	12 to 30 V DC
Current consumption:	0,45 mA
Protection class:	IP00 with case IP66
Operating temperature:	-20°C to +60°C
Weight:	33 g
Dimensions (HxWxD):	67 x 67 x 20 mm with case 94 x 94 x 57 mm

Approvals

VdS-Approval:	G 210131
Declaration of Performance (DoP):	CPR-20-13-007

Assembly hint:
The box GEH MOD IP66 must be ordered separately
See accessories for loop modules

In-/Output Module

BX-O2I4

20-2100014-01-05

The BX-O2I4 has two relay outputs and four monitored inputs for polling potential-free contacts.
The individual I/O functions can be configured differently and combined so that this module can be used, for example, for the integration of fire protection flaps with feedback.
Addressing and parameter assignment for the BX-O2I4 is performed with PC software via the fire alarm control panel.
The module includes a short-circuit isolator. In the event of wire breakage or a short-circuit, this functionality ensures that the fault is localised and at the same time maintains the full operability of the addressable loop.

Operating voltage:	12 to 30 V DC
Current consumption:	0,7 mA
Protection class:	IP00 with case IP66
Operating temperature:	-20°C to +60°C
Weight:	57 g
Dimensions (HxWxD):	100 x 67 x 20 mm with case 130 x 94 x 57 mm

Approvals

VdS-Approval:	G 211050
Declaration of Performance (DoP):	CPR-20-13-012

Assembly hint:
The box GEH MOD2 IP66 must be ordered separately
See accessories for loop modules

Relay Output Module

 VdS CE

BX-O1 **20-2100015-01-02**

Provides one potential free relay outputs with a contact rating of 2A @ 230V. Each input is freely programmable using SecuriFire Studio.

The module is also suitable for emitting switching impulses. The relay output can be switched to a fail-safe position in the event of voltage loss on the loop circuit, and the voltage on the loop circuit is also internally monitored for under voltage. It fits nicely in the IP66 rated enclosure listed below which allows for different cable inlets.

Operating voltage:	12 to 30 V DC
Current consumption:	0,46 mA
Protection class:	IP00 with case IP66
Operating temperature:	-20°C to +60°C
Weight:	30 g
Dimensions (HxWxD):	67 x 67 x 20 mm with case: 94 x 94 x 57 mm

Approvals

VdS-Approval:	G 212024
Declaration of Performance (DoP):	CPR-20-13-013

Assembly hint:
The box GEH MOD3 IP66 must be ordered separately See accessories for loop modules

Monitored Input Module

VdS   CE

BX-I2   20-2100016-01-02

For indication and monitoring of various types of acknowledgements, e.g. door contacts, fire zones, extinguishing systems, sprinkler messages, etc. The module contains 2 inputs, one for monitored and non-monitoring querying of potential-free contacts, which is suitable for processing switching states of longer than 330ms and one optocoupler input for monitoring external voltages. Both the addressing of the module and the setting of its parameters, which are set separately for every input, are carried out using PC software via the fire alarm control panel. An IP66 protection class plastic case is used for fitting the module, which can be fitted with various different cable inlets as required.

Operating voltage:	12 to 30 V DC
Current consumption:	0,46 mA
Protection class:	IP00 with case IP66
Operating temperature:	-20°C to +60°C
Weight:	32 g
Dimensions (HxWxD):	67 x 67 x 20 mm with case: 94 x 94 x 57 mm

Approvals

VdS-Approval:	G 212023
Declaration of Performance (DoP):	CPR-20-13-013

Assembly hint:
The box GEH MOD IP66 must be ordered separately
See accessories for loop modules

Advanced Input Module

 VdS CE

BX-AIM

20-2100005-01-04

Can be configured as a monitored input for querying potential-free contacts or as a collectively addressable detector zone (DC technology). The monitored input can, if required, be used as a standard extinguishing interface in accordance with VdS directives, and furthermore a balancing function of the fault thresholds for the quiescent current level is also possible (pursuant to EN 54-13 or VdS 2489). By interconnecting a Zener barrier and by using intrinsically safe detectors it is also possible to monitor hazardous areas. An IP66 protection class plastic case is used for fitting the module, which can be fitted with various different cable inlets as required. Supplied including an alarm resistor (560 Ohm) and a terminating resistor (19k1).

Operating voltage:	10 to 29 V DC (from the loop circuit)
Current consumption:	without DC branch: Type 0,46 mA
	with DC branch: Type. 1,8 mA
Protection class:	IP00
	with case IP66
Operating temperature:	-20°C to +60°C
Weight:	30 g
Dimensions (HxWxD):	67 x 67 x 20 mm
	with case: 94 x 94 x 57 mm

Approvals

VdS-Approval:	G 208138
Declaration of Performance (DoP):	CPR-20-13-009

Assembly hint:
The box GEH MOD IP66 must be ordered separately
See accessories for loop modules

Accessories		
Ex-i end of line resistor 19k1 for module AIM	EOL Ex 19k1	4301190

Multiple Detector I/F VdS CE

BX-MDI8   **20-2100017-01-03**

The BX-MDI8 has 8 monitored inputs for connecting detection zones or for polling potential-free contacts.
The module requires a redundant, external power supply for operation. Addressing and parameter assignment for the BX-MDI8 is performed with PC software via the fire alarm control panel.
The module includes a short-circuit isolator. In the event of wire breakage or a short-circuit, this functionality ensures that the fault is localized and at the same time maintains the full operability of the addressable loop.

Operating voltage:	12 to 30 V DC
Current consumption:	0,45 mA
Protection class:	IP00
	with case IP66
Operating temperature:	-20°C to +60°C
Weight:	125 g
Dimensions (HxWxD):	80 x 151 x 20 mm
	with case: 94 x 180 x 57 mm

Approvals

VdS-Approval:	G 215099
Declaration of Performance (DoP):	CPR-20-13-015

Assembly hint:
The box GEH MOD3 IP66 must be ordered separately
See accessories for loop modules

SecuriLine eXtended Modules

Magnetic Door holder with Door magnet support AFS 55	$C\epsilon$

BX-MDH (delivered without Battery) **20-2100050-01-02**

The BX-MDH is an electronically triggered magnetic door holder for connection to the SecuriLine eXtended. It has a permanent magnet which fixes the fire protection doors in the open state in normal operation without requiring electrical energy.
If there is a fire alarm or a fault, a brief current pulse neutralises the magnetic field and the fire protection doors close.
- Magnetic holding area Ø 48 mm
- Max. Holding strength 200 N

Operating voltage:	12 to 30 V DC
Current consumption:	0,550 mA
Protection class:	IP42
Operating temperature:	-20°C to +60°C
Weight:	600 g
Dimensions (HxWxD):	85 x 142 x 40 mm
Material:	Polycarbonate
Color:	light grey (RAL 7035)

Assembly hint:
Lithium 9V Battery must be purchased local

Accessories		
Door magnet support BX-MDH	ASS 55	6500023
Adjustable door magnet support for BX-MDH	AFS 55	6500102

End Position Switch Module   VdS CE

BX-ESL   20-2100007-01-03

End position switch for deployment in sprinkler monitoring and for blocking systems. The module contains an optical light barrier which measures the movement of an activation plunger. The cables are fed into the unit using PG connection joints, with connection to the loop module being via 3 screw-type terminals. Both the addressing of the module and the setting of its parameters are carried out using PC software via the fire alarm control panel. The BX-ESL is fitted in a plastic case with IP65 protection class and is delivered incl. 2 connection joints.

Operating voltage:	12 to 30 V DC
Current consumption:	LED on: 1,3 mA
	LED off: 0,4 mA
Protection class:	IP65
Operating temperature:	-20°C to +60°C
Weight:	95 g
Dimensions (HxWxD):	58 x 58 x 34 mm
Material:	PA-Taromid (Thermoplastic)
Color:	case: coral red (RAL 3016)
	cover: jet black (RAL 9005)

Approvals

VdS-Approval:	G 210130
Declaration of Performance (DoP):	CPR-20-13-011

SecuriLine eXtended Modules

SecuriLine Modules Accessories

Mounting Housing

	Box for MDI8 Dimensions (HxWxD): 94 x 180 x 57 mm	GEH MOD3 IP66	20-4000550-01-01
	Box for REL4, O2I4 Dimensions (HxWxD): 94 x 130 x 57 mm	GEH MOD2 IP66	FG020235-A
	Box for Line Modules (except REL4, O2I4, MDI8) Dimensions (HxWxD): 94 x 94 x 57 mm	GEH MOD IP66	FG020234-A
	Box for MDI8 outdoor Dimensions (HxWxD): 94 x 180 x 57 mm	TK PC 1809-6-M	20-2101002-01-01
	Box for REL4, O2I4 outdoor Dimensions (HxWxD): 94 x 130 x 57 mm	TK PC 1309-6-M	20-2101001-01-01
	Box for Line Modules (except REL4, O2I4) outdoor Dimensions (HxWxD): 94 x 94 x 57 mm	TK PC 99-6-M	20-2101000-01-01
	Mounting plate for Line Modules (except REL4, O2I4) Dimensions (HxW): 94 x 94 mm	MP MOD KL	30-6800021-01-01
	Mounting plate for REL4, O2I4 Dimensions (HxW): 94 x 130 mm	MP MOD GR	30-6800021-02-01
	Mounting plate for MDI8 Dimensions (HxW): 94 x 180 mm	MP MOD GR2	30-6800021-03-01

Various spare parts

	Stepped nipple M20 delivery unit: 100 pcs	MM SN M20	MM000181-A
	Twist joint M16	MM ANB M16	MM000185
	Lock nut M16	MM GM M16	MM000186
	Twist joint M12	MM ANB M12	MM000191
	Lock nut M12	MM GM M12	MM000195
	Twist joint M20	MM ANB M20	MM000192
	Lock nut M20	MM GM M20	MM000196
	Taper M20 - M12	MM RR M20 - M12	MM000193
	Taper M25 - M12	MM RR M25 - M12	MM000194
	Lock nut M25	MM GM M25	MM000197

11. SecuriStar Detectors

11.1. SecuriStar SecuriLine eXtended

| Multiple sensor detector, smoke, heat and carbon monoxide | | SBSC | VdS | CE |

CCD 573X		**30-5000006-02-02**
CCD 573X MC	multicolor, available in different RAL colors	**30-5000006-92-02**

The temperature- and CO-supported smoke sensor provides early detection of smouldering, glowing and open fires with smoke development.

- Combined smoke, heat and carbon monoxide (CO) detector according EN 54-5/7/26/29/30
- Optimal sensitivity
- False-alarm security through temperature and carbon monoxide-supported smoke alarm evaluation
- (2 different Cubus Adaptations)
- Technical CO alarm according EN 50291-1
- Adjustable technical CO pre-signal

Operating voltage:	7 to 31 V DC
Current consumption:	0,15 mA
Protection class:	IP44
Operating temperature:	−25°C to +50°C
Weight:	125 g
Dimensions with base (ØxH):	118,8 x 58,1 mm
Material:	ABS/PC
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G 212183
Declaration of Performance (DoP):	CPR-10-13-300

Assembly hint:
The RAL Classic color system is available as an assortment for all MC colored product variants.
➔ Please refer to chapter RAL Colors.

SecuriStar Detectors

MCD 573X		30-5000003-02-05
MCD 573X CP	coated print, for temporarily humid areas	30-5000003-52-05
MCD 573X MC	multicolor, available in different RAL colors	30-5000003-92-05

Combined smoke and heat detector with programmable detection behavior smoke / heat or combined.

- Dust cap included.
- self monitoring of all detector parts
- automatic smoke alarm sensitivity through CUBUS-leveling
- constant sensitivity through dust compensation
- built-in short circuit isolator
- patented "Signature Alarm" for smoke and heat
- heat detection classes A1, A2, B and indices R&S for all classes
- 100% backwards compatible to the STD531 and MCD 573

Messages

- separate alarm signalisation for smoke and heat
- 2 pre-warning levels for smoke
- warning signal for high ambient temperature
- contamination level 1 and 2

Settings via SecuriFire

- smoke and/or heat part can be temporarily disabled.
- smoke sensitivity
- programmable control output
- heat class and index

Operating voltage:	7 to 31 V DC
Current consumption:	0,12 mA
Protection class:	IP44
Operating temperature:	−25°C to +50°C
Weight:	125 g
Dimensions with base (ØxH):	118,8 x 58,1 mm
Material:	ABS/PC
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G 210152
Declaration of Performance (DoP):	CPR-10-13-302

Assembly hint:
The RAL Classic color system is available as an assortment for all MC colored product variants. ➔Please refer to chapter RAL Colors.

Multiple sensor detector, smoke and heat, with integrated sounder

MCD 573X-S		30-5000007-02-01
MCD 573X-S MC	multicolor, available in different RAL colors	30-5000007-92-01

Multiple sensor detector acoustic
For early detection of smoldering and open fires with and without smoke development. Single addressable

- Multiple standard use on two parallel channels (smoke/heat) according to EN 54-5, -7 and EN 54-29
- Cubus levelling for automatique adaptation to the environment conditions
- Signature alarm for smoke and heat
- Smoke pre-signal
- Alarm threshold tracing
- Selection of heat classes according to EN 54-5; Class A1, A2, B inclusive index R and S for all 3 heat classes
- Acoustic according EN 54-3, Tonality adjustable in three variable volumes
- Sounder volume 92/81/69 dB(A)

Operating voltage:	12 to 31 V DC
Current consumption:	1,5 mA
Protection class:	IP22
Operating temperature:	−25°C to +60°C
Weight:	135 g
Dimensions with base (ØxH):	118,8 x 58,1 mm
Material:	ABS/PC
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G 213053
Declaration of Performance (DoP):	CPR-10-13-307

Assembly hint:
The RAL Classic color system is available as an assortment for all MC colored product variants.
➔ Please refer to chapter RAL Colors.

SecuriStar Detectors

Multiple sensor detector, smoke and heat, with integrated sounder for voice	VdS	CE

MCD 573X-SP		30-5000010-02-02
MCD 573X-SP MC	multicolor, available in different RAL colors	30-5000010-92-02
MCD 573X-SP EE		30-5000010-04-02
MCD 573X-SP AE		30-5000010-06-02

Multiple sensor detector speech
For early detection of smoldering and open fires with and without smoke development. Single addressable

- Multiple standard use on two parallel channels (smoke/heat) according to EN 54-5, -7and EN 54-29
- Cubus levelling for automatique adaptations to the environment conditions
- Signature alarm for smoke and heat
- Smoke pre-signal
- Alarm threshold tracing
- Selection of heat classes according to EN 54-5; Class A1, A2, B inclusive index R and S for all 3 heat classes
- Acoustic according EN 54-3, Tonality adjustable in three variable volumes
- Sounder volume 92/81/69 dB(A)
-

Language output:		
MCD 573X-SP	MCD 573X-SP EE	MCD 573X-SP AE
English	English	English
German	Czech	Portuguese
French	Hungarian	Danish
Italian	Russian	Finnish
Dutch	Croatian	Spanish
Swedish	Turkish	Arabian
	Romanian	Malaysian
	Serbian	Norwegian
	Slovakian	Thai

Operating voltage:	12 to 31 V DC
Current consumption:	1,5 mA
Protection class:	IP22
Operating temperature:	−25°C to +60°C
Weight:	135 g
Dimensions with base (ØxH):	118,8 x 58,1 mm
Material:	ABS/PC
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G 213053
Declaration of Performance (DoP):	CPR-10-13-307

Assembly hint:
The RAL Classic color system is available as an assortment for all MC colored product variants. ➔Please refer to chapter RAL Colors.

11.2. Conventional Detectors SecuriStar

| Smoke detector | | VdS | CE |

SCD 563   **237230**

Smoke Criteria Detector
- conventional
- automatic smoke alarm sensitivity through CUBUS-levelling
- self-monitoring of all detector parts
- false alarm resistant alarm evaluation
- constant sensitivity through dust compensation

Operating voltage:	18 to 30 V DC
Current consumption:	0,12 mA
Protection class:	IP44
Operating temperature:	-25°C to +60°C
Weight:	135 g
Dimensions with base (ØxH):	118,8 x 58,1 mm
Material:	ABS / PC
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G 208198
Declaration of Performance (DoP):	CPR-10-13-303

Note:
Run out phase.
If possible please use replacement product MCD 573X

SecuriStar Detectors

Temperature detector			VdS CE

TCD 563-1	Heat Class A1	**237248**
TCD 563-3	Heat Class B	**237264**

Temperature Criteria Detector, preset to level and/or rate-of-rise according to Class A1, A2 or B.
- conventional
- highly resistant to false alarm
- fixed threshold and / or rate-of-rise capabilities
- 100% backwards compatible to the UTD521 and UTD523

Operating voltage:	16,5 to 30 V DC
Current consumption:	0,12 mA
Protection class:	IP44
Operating temperature:	-25°C to +70°C
Weight:	125 g
Dimensions with base (ØxH):	118,8 x 58,1 mm
Material:	ABS / PC
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G 208199
Declaration of Performance (DoP):	CPR-10-13-305

Note:
Run out phase.
If possible please use replacement product MCD 573X

11.3. Accessories for SecuriStar Detectors

Protection basket		

SRS 01

SRS 02

SRS 01   for SecuriStar and ORM130   **5000586**

SRS 02   for IP54 base or BX-SBL   **5000634**

Protective cage. To protect the detector from damage.

Dimensions with base (ØxH):	SRS 01: 148 x 90 mm SRS 02: 148 x 122 mm
Material:	Steel, nickel-plated

Detector mounting console		

MMK200/350   w/o socket and detector   **FG020520**

For horizontal installation of detectors on steep roofs or ceilings. Vertically adjustable in a range of 0 to 90° and expandable from 200 to 350 mm.
It is ideally suited for the detector base USB 50x-xx, which is mounted by means of two size M4 screws.

Material:	Sheet steel, powder-coated
Color:	Light gray (RAL 7035)

Detector numbering plate		

DNP 502 VE10

DNP 521/531

DNP 502 VE10   delivery unit: 10 pieces   **31-3100001-01-02**

DNP 521/531   delivery unit: 100 pieces   **3110320**

Detector numbering plate for SecuriStar detectors.
Max. size for label 45 x 75 mm or P-Touch label

Material:	ABS / PC
Color:	signal white (RAL 9003)

SecuriStar Detectors

Fitting set USB

MONT SET GK

MM000250

Kit for suspended mounting of the detector base USB 50x-xx by means of spacer bolts. Provides for a better adoption to the environment temperature and reduces the probability of condensation.

Detector heating for MCD 573X CP
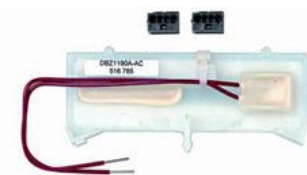
DBZ 1190A-AC

FG020480

Detector heating for USB 50x-xx. Needs cable binders and reserve terminal block (USB Term) for wiring.
For detector MCD 573X CP only.

SecuriStar Accessories

Various spare parts

Optional reserve terminal block for cross-connections USB 50x-xx	USB Term	31-3100002-01-01
Terminal Block for Detector Base, w/o loop cont. switch delivery unit: 10 pieces	STE 01-BK PU10	30-4100002-01-01
Rubber cap for base USB 50x-1 or -6	GKAPPE 501	FG020189
Detector dust cover for MCD, SCD or TCD SecuriStar detectors series 523/533, 563/573. delivery unit: 1000 pieces	DDC 533	3200564-02

12. Base for SecuriStar Detectors

USB 502-6

USB 502-6	surf. mounting, w/o loop contact	**30-4100005-06-01**
USB 502-1	surface mounting	**30-4100005-01-01**
USB-502-2	flush mounting	**30-4100005-02-01**
USB 502-3	surf. mount., for humid areas	**30-4100005-03-01**
USB 502-4	flush mount. in concrete	**30-4100005-04-01**
USB 502-5	socket for mounting on pipes,	**30-4100005-05-01**
USB 502-6 MC	available in different RAL colors	**30-4100005-96-01**
USB 502-1 MC	available in different RAL colors	**30-4100005-91-01**

USB 502-1

Base for addressable and conventional SecuriStar detectors with integrated 6 wire terminal and detector fixing by means of bayonet coupling.

USB 502-2

Protection class:	
USB 502-1, -2, -4, -5 and -6	IP44
USB 502-3	IP54
Operating temperature:	-25°C to +70°C
Weight:	
USB 502-1 or -6	90 g
USB 502-2	210 g
USB 502-3	189 g
USB 502-4	179 g
USB 502-5	229 g
Dimensions with base (ØxH):	
USB 502-1 or -6	118,5 x 25 mm
USB 502-2	158 x 50 mm
USB 502-3	123,5 x 50 mm
USB 502-4	158 x 92 mm
USB 502-5	118,5 x 70 mm
Material:	ABS/PC; TPE
Color:	signal white (RAL 9003)

USB 502-3

Accessories		
Cover Ring "extra large"	Ring 177	3110470
Cover Ring "large" multicolor	Ring 158 MC	3110464

USB 502-4

| **Assembly hint:** |
| The RAL Classic color system is available as an assortment for all MC colored product variants.
➔ Please refer to chapter RAL Colors. |

USB 502-5
(USB 502-1 with pipe clamp)

Base for SecuriStar Detectors

Detector Base, surface mounting (w/o loop cont. switch) with illuminated ring

VdS   CE

USB 502-20   surface mounting   **20-2100019-01-01**

Universal base with illuminated ring
For addressable SecuriStar detectors with uniform 6-pin
terminal block. Surface mounting, without loop contact.
The detector is locked into place with a bayonet catch.
Illuminated ring:
- Fixed flash rate
- Low power consumption
- Can be actuated individually

Protection class:	IP44
Operating temperature:	-25°C to +70°C
Weight:	90 g
Dimensions (ØxH):	118,5 x 25 mm
Material:	ABS / PC
Color:	signal white (RAL 9003)

Ex-mounting socket for surface mounting of MMD 130 Ex-i

VdS   CE

USB 502-8 Ex-i   **30-4100005-08-01**

Along with the MMD 130 Ex-i optical- and heat detectors, it
is suitable for use in Ex zones 1 and 2.
It has no loop contact.

Protection class:	IP44
Operating temperature:	-25°C to +70°C
Weight:	95 g
Dimensions (ØxH):	118,5 x 25 mm
Material:	ABS / PC
Color:	signal white (RAL 9003)

13. Ventilation Duct Detectors SecuriLine eXtended

Air duct detector base set, without detector   CE

LKM-SET   30-5500005-01-01

Housing with transparent cover. For mounting ventilation
duct detectors: LKM 593X, LKM 140, LKM 150, and
LKM583 on round or rectangular ventilation ducts.
Including inlet and outlet pipe.

Protection class:	IP54
Operating temperature:	-25°C to +60°C
Weight:	485 g
Dimensions without pipes:	95,5 × 247,2 × 135 mm
Ventilation duct diameter (Ø):	20 to 100 cm
Ventilation duct side length (□):	15 to 100 cm
Air flow speed:	1 to 20 m/s
Material:	PC/anodised aluminium tube

Duct Smoke detector SecuriLine eXtended   VdS   CE

LKM 593X   30-5500001-01-01

For early detection of smouldering and open fires with
smoke development. For mounting in the LKM-Set, for
ventilation ducts. Individually addressable and backwards
compatible to SSD 531K.
- Signature alarm for smoke
- Smoke pre-signal
- Alarm threshold tracking

Operating voltage:	7 to 31 V DC
Current consumption:	0,15 mA
Operating temperature:	−25°C to +60°C
Weight:	125 g
Dimensions with base (ØxH):	118,8 x 58,1 mm
Material:	ABS/PC
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G 214124
Declaration of Performance (DoP):	CPR-30-13-025

Duct Smoke detector for stub lines

LKM 583

30-5500002-01-01

For early detection of smouldering and open fires with smoke development. For mounting in the LKM-Set, for ventilation ducts.

Operating voltage:	18 to 30 V DC
Current consumption:	0,12 mA
Operating temperature:	-25°C to +60°C
Weight:	125 g
Dimensions with base (ØxH):	118,8 x 58,1 mm
Material:	ABS/PC
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G 214125

Note:
Run out phase.

14. Ex/ATEX approves Detectors

Multicriteria Detector, Ex-proof, ATEX100a	⟨Ex⟩ VdS C E

MMD 130 Ex-i 30-5000005-01-01

An intrinsically safe smoke detector for use in hazardous areas of zone 1 and zone 2 and certified to classification II 2 G Ex ib IIC T4. The MMD 130 Ex-i works in accordance with the scattered light principle and detects smouldering, glowing and open fires with smoke development at an early stage.

Operating voltage:	10 to 28 V DC
Current consumption:	0,15 mA
Protection class:	IP54
Operating temperature:	-25°C to +70°C
Weight:	125 g
Dimensions with base (ØxH):	118,8 x 58,1 mm
Material:	ABS / PC
Color:	signal white (RAL 9003)
Standard for explosion-hazard areas:	II 2 G Ex ib IIC T4

Approvals

VdS-Approval:	G 211094
Ex Approval:	EPS 11 ATEX 1 346 X

Note:
Run out phase.

Safety barrier	⟨Ex⟩	C E

Z787

Z787F

Z787

Z787F   with replaceable fuse

FG020121

FG020430

The safety barriers for intrinsically safe detector zones prevent too high an energy level from entering a hazardous area, which could cause ignition sparks if discharged there. The barrier is connected in series into the wiring of the detector zone. The device is ATEX 100a approved.
- Max. short circuit current 93 mA
- Max. cabling length 700 m

Operating voltage:	25,5 V DC
Current consumption:	35 mA
Protection class:	IP20
Operating temperature:	-20°C to +60°C
Weight:	150 g
Dimensions (HxWxD):	110 x 115 x 12,5 mm
Material:	Makrolon
Standard for explosion-hazard areas:	II 1 G/D EEx ia IIC

Approvals

Ex Approval:	TÜV 99 ATEX 1484 X

Accessories		
G-fuse 50 mA F 5x20	G SICH Z787F	FG020431
Housing with cap rail, non-transparent cover	GEH HS GS	30-6800070-02-01
Housing with cap rail, transparent cover	GEH HS TP	30-6800070-01-01

Ex/Atex Accessories

Various spare parts		
Ex-i end of line resistor 2k7 for modules MTI8 / IM8 or B4 EIO	EOL Ex 2k7	4301189
Ex-i end of line resistor 19k1 for module AIM	EOL Ex 19k1	4301190

15. Radio system SecuriAir

BX-WGW　　　　(delivered without Battery)　　　**20-2100021-01-02**

The radio gateway BX-WGW is suitable for connection to the SecuriLine eXtended and serves as an interface for the communication between the SecuriFire fire alarm control panel, the radio fire detector and the radio manual call points. Up to 30 radio detectors can be connected to a gateway.

Operating voltage:	16,5 to 30 V DC
Current consumption:	0,75 mA
Protection class:	IP40 with case
Operating temperature:	-20°C to +60°C
Weight:	157 g
Dimensions (HxWxD):	without case: 110 x 80 x 14 mm
	with case: 167 x 89 x 28 mm
Material:	ABS
Color:	pure white (RAL 9010)

Approvals

VdS-Approval:	G 217001
Declaration of Performance (DoP):	CPR-20-17-021

Assembly hint:
The battery pack BAT3.6-10 must be ordered separately
➔ See SecuriAir accessories

Radio system SecuriAir

Radio fire detector

<div>VdS   CE</div>

FDOOT271-O   (delivered without Battery)   **20-3001000-01-01**

The radio fire detector FDOOT271-O is a multiple sensor detector and is used to extend fire alarm systems. Up to 30 radio fire detectors FDOOT271-O can be connected to the gateway BX-WGW.

- Transmission power (360°): 10mW ERP

Operating voltage:	BAT 3.6-10 (3,6 V / 10 Ah)
Protection class:	IP44
Operating temperature:	-10°C to +55°C
Weight:	130 g
Dimensions (ØxH):	117 x 64 mm
Material:	ABS
Color:	pure white (RAL 9010)

Approvals

VdS-Approval:	G 216094
Declaration of Performance (DoP):	0786-CPR-21527

Assembly hint:
The battery pack BAT3.6-10 must be ordered separately
➜ See SecuriAir accessories

Radio manual call point

<div>VdS   CE</div>

FDM275-O   (delivered without Battery)   **20-3001100-01-01**

The radio manual call point FDM275-O Type A / direct tripping, for manual fire alarm release. Up to 30 radio fire detectors FDM275-O can be connected to the gateway BX-WGW.

Operating voltage:	BAT 3.6-10 (3,6 V / 10 Ah)
Protection class:	IP44
Operating temperature:	-10°C to +55°C
Weight:	279 g
Dimensions (HxWxD):	87 x 87 x 63 mm
Material:	Polycarbonate
Color:	flame red (RAL 3000)

Approvals

VdS-Approval:	G 216096
Declaration of Performance (DoP):	0786-CPR-21529

Assembly hint:
The battery pack BAT3.6-10 must be ordered separately
➜ See SecuriAir accessories

Accessories and Spare Parts for SecuriAir

Various spare parts

	Base for FDOOT271-O	FDB271	20-3001003-01-01
	Pin for FDOOT271-O	FDBZ293	20-3001001-01-01
	Description plate for radio detector	FDBZ291	20-3001004-01-01
	Radio detector cover FDM275-O	FDMC295	20-3001101-01-01
	Key for radio detector FDM275-O	FDMK295	20-3001102-01-01
	Replacement glass for radio detector FDM275-O	FDMG295	20-3001103-01-01
	Triggering element for FDM275-O	FDMP295	20-3001104-01-01
	Battery pack (1 pcs. per device needed)	BAT3.6-10	20-3001002-01-01
	USB Radio Adapter	FDUZ227	20-3001150-01-01

16. Manual Call Points

16.1. Addressable Manual call points SecuriLine eXtended

Manual Call Point, Type A			SBSC VdS C€
MCP 545X-1 N	surface mounting		**265200**
MCP 545X-2 N	flush mounting		**265202**
MCP 545X-4 N	IP67		**265204**
MCP 545X-1S N	surface mounting, with Swedish labeling		**265208**
MCP 545X-1E N	surface mounting, without flap, non breakable activation		**265211**

The manual call point MCP 545X N is a non automatic detector for fire alarm systems for direct connection to the SecuriLine / eXtended. An alarm is triggered directly when the glass panel is broken. The alarm persists until the glass panel is replaced with a new one.
Alarm triggering is indicated by means of a red LED.
For test purposes, an alarm can be triggered by means of a test key without breaking the glass panel.
To increase the security with respect to false alarms, the MCP 545X N can additionally be provided with a sealable hinged cover.

Operating voltage:	7 to 31 V DC
Current consumption:	0,12 mA
Protection class: MCP 545X-1 N, MCP 545X-2 N, MCP 454X-1S N and MCP 545X-1E N	IP24
MCP 545X-4 N	IP67
Operating temperature:	--10°C to +55°C
Weight: MCP 545X-1 N and MCP 454X-1S N	160 g
MCP 545X-1E N	135 g
MCP 545X-2 N	110 g
MCP 545X-4 N	240 g
Dimensions (HxWxD): MCP 545X-1 N, MCP 545X-1E N and MCP 545X-1S N	93 x 89 x 61,5 mm
MCP 545X-2 N	93 x 89 x 33,5 mm
MCP 545X-4 N	93 x 97,5 x 73 mm
Material:	Plastic, glass fibre-reinforced
Color:	signal red (RAL 3001)

Approvals

VdS-Approval:	G 210094
Declaration of Performance (DoP):	CPR-10-17-103

Manual Call Point, Type B

VdS CE

MCP 535X-1	red	**30-5700007-01-03**
MCP 535X-3	blue	**30-5700007-03-03**
MCP 535X-5	yellow	**30-5700007-05-03**
MCP 535X-7	Stop button, blue	**30-5700007-07-03**
MCP 535X-15	green	**30-5700007-15-03**

Double action break glass, according to VdS and EN54-11. Delivered without inscription label and key, to be ordered separately.
- for dry rooms
- surface or flush mounting
- key protected
- integrated status LED
- blue and yellow versions available

Operating voltage:	7 to 31 V DC
Current consumption:	0,09 mA
Protection class: MCP 535X-1, MCP 535X-3, MCP 535X-5 and MCP 535X-15	IP52
MCP 535X-7	IP54
Operating temperature:	-20°C to +50°C
Weight:	450 g
Dimensions (HxWxD):	134 x 134 x 36 mm
Material:	plastic, ASA
Color: MCP 535X-1	signal red (RAL 3001)
MCP 535X-3 and MCP 535X-7	signal blue (RAL 5005)
MCP 535X-5	signal yellow (RAL 1003)
MCP 535X-15	leaf green (RAL 6002)

Approvals

VdS-Approval: MCP 535X-1	G 210095
MCP 535X-5	G 210096
MCP 535X-3, MCP 535X-7	G 210097
Declaration of Performance (DoP): MCP 535X-1	CPR-30-13-007
MCP 535X-5	CPR-30-13-008
MCP 535X-7	CPR-30-13-022
MCP 535X-15	CPR-30-13-024

16.2. Conventional Manual Call Points

Manual Call Point, Type A			VdS CE

MCP 521-1 N	surface mounting		**238023**
MCP 521-2 N	flush mounting		**238031**
MCP 521-4 N	IP67		**238040**
ECP 521-1E N	surface mounting, yellow		**238058**
MCP 521 N Ex-i	Ex-i		**238074**
MCP 521-4 N Ex-i	Ex-i IP67		**265481**

The manual call point MCP 521 N is a non-automatic detector for fire alarm systems with current amplification line evaluation. An alarm is triggered directly by breaking the glass panel.

Operating voltage:	30 V DC
Current consumption:	0,12 mA

Protection class:
MCP 521-1 N, MCP 521-2 N, ECP 521-1E N and MCP 521 N Ex-i	IP24
MCP 521-4 N and MCP 521-4 N Ex-i	IP67

Operating temperature:	-10°C to +55°C

Weight:
MCP 521-1 N, ECP 521-1E N and MCP 521 N Ex-i	160 g
MCP 521-2 N	110 g
MCP 521-4 N and MCP 521-4 N Ex-i	240 g

Dimensions (HxWxD):
MCP 521-1 N, ECP 521-1E N and MCP 521 N Ex-i	93 x 89 x 61,5 mm
MCP 521-2 N	93 x 89 x 33,5 mm
MCP 521-4 N and MCP 521-4 N Ex-i	93 x 97,5 x 71 mm

Material:	plastic, glass fibre-reinforced

Color:
All MCP	signal red (RAL 3001)
ECP 521-1E N	signal yellow (RAL 1003)

Standard for explosion-hazard areas:	II 1 G Ex ia IIC T4

Approvals

VdS-Approval:
MCP 521-1 N, MCP 521-2 N, MCP 521-4 N	G 206061

Declaration of Performance (DoP):
MCP 521-1 N, MCP 521-2 N, MCP 521-4 N	CPR-10-13-104
Ex Approval:	Sira 04ATEX2350X, 06ATEX2131X

Manual Call Point, Type B   [VdS] C€

MCP 525-7	red	**6200149-0007**
MCP 525-9	blue	**6200149-0009**
MCP 525-11	yellow	**6200149-0011**
MCP 525-14	Stop button, blue	**6200149-0014**
MCP 525-15	Flooding, green	**30-5700014-01-01**

Double action break glass, according to VdS. Delivered without inscription label and key, to be ordered separately.
- for dry rooms
- surface or flush mounting
- key protected
- integrated status LED

Operating voltage:	19,6 to 30 V DC
Current consumption:	
depending from the used fire / extinguishing panel	
Protection class:	
MCP 525-7, MCP 525-9,MCP 525-11 and MCP 525-15	
	IP52
MCP 525-14	IP54
Operating temperature:	-10°C to +55°C
Weight:	450 g
Dimensions (HxWxD):	135 x 135 x 37 mm
Material:	plastic, ASA
Color:	
MCP 525-7	signal red (RAL 3001)
MCP 525-9 and MCP 525-14	signal blue (RAL 5005)
MCP 525-11	signal yellow (RAL 1003)
MCP 525-15	leaf green (RAL 6002)

Approvals

VdS-Approval:	
MCP 525-7	G 207007
MCP 525-11	G 208106
MCP 525-14 / MCP 525-15	G 208107
Declaration of Performance (DoP):	
MCP 525-7	CPR-30-13-026
MCP 525-11	CPR-30-13-027
MCP 525-14 / MCP 525-15	CPR-30-13-028

16.1. Accessories for Manual Call Points

Accessories and Spare Parts for MCP			
Replacement glass and release plates			
	Spare glass for manual call point, (MCP/ECP/FTN/FTX) MCP 545, MCP521, ECP521	CPG 845	225797
	Spare glass for MCP VdS types MCP 525-7, -14, MCP 535-7, -14, MCP 140 / 150 delivery unit: 10 pcs	GLASS MCP VE10	30-6800091-01-01
	Resettable release plate for MCP 521N and 545X delivery unit: 10 pcs	PS230 VE10	214350
Various spare parts			
	Sealing red for MCP 525 and 535 to be IP54	SEALING MCP IP54	30-4100001-01-01
	Key for MCP 520-1, 530-1 and 535 X delivery unit: 5 pcs.	KEY MCP 5xx VE5	30-6800093-01-01
	Label "Securiton" for MCP 525/535 delivery unit: 100 pcs	EB MCP	3740835-0101
	Seal for MCP series 521N and 545N	CPS 845N	238198
	Flap transparent, for MCP series 521N and 545N	THC 845N	238104
	Base for MCP, surface mounting, red for MCP 521 / 545	Z FT 513 AP	173061
	Base (plate) for MCP, flush mounting, red for MCP 521 / 545	Z FT 513 UP	193801
	Alarm resistor 680Ω for MCP 521N Ex-i and MCP 521-4 N Ex-i	WID 680	26514
	Terminal block for MCP 545 and MCP 521 series	ST MCP	265412
	Test key, for opening and testing MCP 545 and MCP 521 series	TK MCP	265413
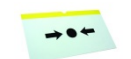
17. Alarm Indication Modules

17.1. Acoustical Alarm Medium

| Loop Siren | | SBSC | VdS | CE |

| BX-SOL-R | red | 20-2100008-01-10 |
| BX-SOL-W | white | 20-2100008-02-10 |

Loop powered and controlled sounder for SecuriLine eXtended.
- 3 signal tones
  (DIN 33404, Slow Whoop and 990Hz pulsed)
- Signal tone controlled from the FACP depending
- on the event
- Configurable volume high/low
- 89 / 99 dB(A) (low/high volume)

Operating voltage:	12 to 30 V DC
Current consumption:	2,9 mA Low
	5,3 mA High
Protection class:	IP21
Operating temperature:	-10°C to +55°C
Weight:	230 g
Dimensions with base (ØxH):	108 x 96 mm
Material:	ABS
Color:	
BX-SOL-R	signal red (RAL 3001)
BX-SOL-W	signal white (RAL 9003)

Approvals

VdS-Approval:	G 210086
Declaration of Performance (DoP):	CPR-20-13-100

Alarm Indication Modules

BSE 128
(surface mounting)

BSE 128
(flush mounting)

BSE 128 red	surface mounting	**6300138-0204**
BSE 128 white	surface mounting	**6300138-0203**
BSE 128 red IP65	surface mounting	**6300138-0202**
BSE 128 white IP65	surface mounting	**6300138-0201**
BSE 128 UP	flush mounting, only available in white	**6300177**

Acoustical alarm device for fire alarm systems. Robust, reliable construction, high protection class, low power consumption.

- 28 signal tones
- 2nd tone can be activated via separate input
- IP54 , flat profile socket
- red and white type available
- Volume (DIN tone): up to 115 dB(A) (98 dB) @ 1 m
- EN 54-3

Operating voltage:	10 to 24 V DC
Current consumption:	20,5 mA
Protection class:	IP54 IP65
Operating temperature:	-40°C to +80°C
Weight:	300 g
Dimensions (ØxH): Standard: IP65 version:	101 x 81 mm 101 x 100 mm
Material:	ABS
Color:	pure white (RAL 9010) signal red (RAL 3001)

Approvals

VdS-Approval:	G 200117
Declaration of Performance (DoP):	0786-CPD-21025

BX-SBL 501-W white **20-2100011-02-10**

BX-SBL 501-WDB white, deep base **20-2100011-01-10**

BX-SBL 501

BX-SBL 501

Acoustic alarm unit, to be mounted between the detector socket USB 50x and the ceiling or on the wall, for use in a SecuriFire fire alarm system. Connects directly to SecuriLine eXtended via 2 wire without any further power supply line. The deep base version (DB) is for a side wise cable installation.

- 3 signal tones
  (DIN 33404, Slow Whoop and 880Hz pulsed)
- Signal tone controlled from the FACP depending on the event
- Configurable volume high/low
- Volume 80 / 90 dB(A) (low/high volume)

Operating voltage:	15 to 30 V DC
Current consumption:	1,5 mA Low
	4,0 mA High
Protection class:	IP31D
Operating temperature:	-20°C to +55°C
Weight:	
BX-SBL 501-W	170 g
BX-SBL 501-WDB	175 g
Dimensions (ØxH):	
BX-SBL 501-W	117 x 41 mm
BX-SBL 501-WDB	117 x 45 mm
Material:	PC/ABS
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G 211029
Declaration of Performance (DoP):	CPR-20-13-101

Alarm Indication Modules

Loop ceiling siren		VdS CE

	BX-SBL 502-W	white	**20-2100012-04-10**
	BX-SBL 502-WDB	white , deep base	**20-2100012-02-10**
	BX-SBL 502-RDB	red, deep base	**20-2100012-01-10**

Acoustic alarm unit, to be mounted directly on the ceiling or on the wall. Connects directly to SecuriLine eXtended via 2 wire without any further power supply line. The deep base version (DB) is for a side wise cable installation.

- 3 signal tones
  (DIN 33404, Slow Whoop and 880Hz pulsed)
- Signal tone controlled from the FACP depending on the event
- Configurable volume high/low
- Volume 80 dB / 90 dB(A) (low/high volume)

Operating voltage:	15 to 30 V DC
Current consumption:	1,5 mA Low 4,0 mA High
Protection class:	IP31D
Operating temperature:	-10°C to +55°C
Weight: BX-SBL 502-W BX-SBL 502-WDB / RDB	 161 g 167 g
Dimensions (ØxH): BX-SBL 502-W BX-SBL 502-WDB / RDB	 116 x 32 mm 116 x 36 mm
Material:	PC/ABS
Color:	signal white (RAL 9003) signal red (RAL 3001)

Approvals

VdS-Approval:	G 211029
Declaration of Performance (DoP):	CPR-20-13-101

17.2. Optical Alarm Medium

Universal Alarm & Control Module		VdS CE
BW ESDA1000RRS	lens red, socket red, small	30-6300007-01-01
BW ESDA1000RRD	lens red, socket red, deep	30-6300007-02-01
BW ESBA4000WWS	lens clear, socket white, small	30-6300007-03-01
BW ESBA4000WWD	lens clear, socket white, deep	30-6300007-04-01

The beacon visually signals an alarm **according EN54-23**.
Two flash sequences can be set. The housing is made of
plastic. The Beacons can be connected to SecuriFire via
B3/B5-OM8, B4/B6-EIO, and BX-IOM.
- Flashing frequency 0,5 or 1 Hz

Operating voltage:	17 to 60 V DC
Current consumption:	20 mA
Protection class: BW ESDA1000RRS / BW ESBA4000WWS BW ESDA1000RRD / BW ESBA4000WWD	 IP21C IP65
Operating temperature:	-25°C to +70°C
Weight: BW ESDA1000RRS / BW ESBA4000WWS BW ESDA1000RRD / BW ESBA4000WWD	 170 g 220 g
Dimensions (ØxH): BW ESDA1000RRS / BW ESBA4000WWS BW ESDA1000RRD / BW ESBA4000WWD	 100 x 100 mm 100 x 122 mm
Material:	Polycarbonate
Color:	flame red (RAL 3000) signal white (RAL 9003)

Approvals

VdS-Approval: BW ESDA BW ESBA	 G 214107 G 214105
Declaration of Performance (DoP): BW ESDA BW ESBA	 0832-CPR-F0150 0832-CPR-F0007

Alarm Indication Modules

Beacon ceiling mounted   VdS CE

BC ESDA2000RRS	lens red, socket red, small	**30-6300008-01-01**
BC ESDA2000RRD	lens red, socket red, deep	**30-6300008-02-01**
BC ESBA3000WWS	lens clear, socket white, small	**30-6300008-03-01**
BC ESBA3000WWD	lens clear, socket white, deep	**30-6300008-04-01**

The beacon visually signals an alarm **according EN54-23**.
Two flash sequences can be set. The housing is made of
plastic. The Beacons can be connected to SecuriFire via
B3/B5-OM8, B4/B6-EIO, and BX-IOM.
 - Flashing frequency 0,5 or 1 Hz

Operating voltage:	17 to 60 V DC
Current consumption:	20 mA
Protection class:	
BC ESDA2000RRS / BC ESBA3000WWS	IP21C
BC ESDA2000RRD / BC ESBA3000WWD	IP65
Operating temperature:	-25°C to +70°C
Weight:	
BC ESDA2000RRS / BC ESBA3000WWS	170 g
BC ESDA2000RRD / BC ESBA3000WWD	220 g
Dimensions (ØxH):	
BC ESDA2000RRS / BC ESBA3000WWS	100 x 94 mm
BC ESDA2000RRD / BC ESBA3000WWD	100 x 117 mm
Material:	Polycarbonate
Color:	flame red (RAL 3000)
	signal white (RAL 9003)

Approvals

VdS-Approval:	
BC ESDA	G 214107
BC ESBA	G 214105
Declaration of Performance (DoP):	
BC ESDA	0832-CPR-F0148
BC ESBA	0832-CPR-F0009

Loop flashlight

BX-FOL-RR	red base, red	**20-2100009-01-09**
BX-FOL-WR	white base, red	**20-2100009-02-09**
BX-FOL-RO	red base, orange	**20-2100009-03-09**
BX-FOL-WO	white base, orange	**20-2100009-04-09**

Powered and driven by the loop. 2 flash frequencies (fast/slow), connectable to SecuriLine eXtended.

Operating voltage:	12 to 30 V DC
Current consumption:	3,7 mA
Protection class:	IP21
Operating temperature:	-10°C to +55°C
Weight:	110 g
Dimensions (ØxH):	93 x 54 mm
Material:	ABS
Color:	signal red (RAL 3001) signal white (RAL 9003)

Approvals

VdS-Approval:	G 210085
Declaration of Performance (DoP):	CPR-20-14-102

Alarm Indication Modules

Flash Light VdS CE

Solex R/SR/10C	lens red, base red	**6300170**
Solex A/SW/10C	lens amber, base white	**6300171**
Solex G/SW/10C	lens green, base white	**6300172**
Solex B/SW/10C	lens blue, base white	**6300173**
Solex CL/SW/10C	lens clear, base white	**6300174**

Optical xenon alarm medium in a robust design for indoor and outdoor application, available in 5 different lens colors. The red lens comes with red base only, other colors with white base only.

- Luminous intensity : red 4,8 cd
  amber 8,4 cd
  green 7 cd
  blue 2,8 cd
  clear 14 cd

Operating voltage:	9 to 60 V DC
Current consumption:	93 mA
Protection class:	IP54
	with special socket IP65
Operating temperature:	-25°C to +70°C
Weight:	150 g
Dimensions (ØxH):	93 x 63 mm
Material:	Polycarbonate/ABS

Approvals

VdS-Approval:	G 207018

Accessories		
Socket deep, red, IP65	SO/D/R	6800145
Socket deep, white, IP65	SO/D/W	6800146
Socket deep, red, IP65, 230V	SO/D/R/230	6800147
Socket deep, white, IP65, 230V	SO/D/W/230	6800148

Note:
Run out phase.

17.3. Combined Siren / Beacon

Combined Siren/Beacon wall mounted			VdS CE

	SBW ESFA1000RRS	lens red, socket red, small	30-6300009-01-01
	SBW ESFA1000RRD	lens red, socket red, deep	30-6300009-02-01
	SBW ESCA4000WWS	lens clear, socket white, small	30-6300009-03-01
	SBW ESCA4000WWD	lens clear, socket white, deep	30-6300009-04-01

The optical signal transmitter is **according to EN 54-23**. It serves to signal a fire alarm audibly and optically in buildings; with an additional IP65 base it can also be used outdoors.
The signal transmitter can be mounted on the wall (category W)
- Flashing frequency 0,5 or 1 Hz
- Sound level DIN tone 97 dB (A)

Operating voltage:	17 to 60 V DC
Current consumption:	25 mA
Protection class: SBW ESFA1000RRS / SBW ESCA4000WWS SBW ESFA1000RRD / SBW ESCA4000WWD	 IP21C IP65
Operating temperature:	-25°C to +70°C
Weight: SBW ESFA1000RRS / SBW ESCA4000WWS SBW ESFA1000RRD / SBW ESCA4000WWD	 170 g 220 g
Dimensions (ØxH): SBW ESFA1000RRS / SBW ESCA4000WWS SBW ESFA1000RRD / SBW ESCA4000WWD 	 100 x 100 mm 100 x 122 mm
Material:	Polycarbonate
Color:	flame red (RAL 3000) signal white (RAL 9003)

Approvals

VdS-Approval: SBW ESFA SBW ESCA	 G 214108 G 214106
Declaration of Performance (DoP): SBW ESFA SBW ESCA	 0832-CPR-F0149 0832-CPR-F0010

Alarm Indication Modules

<table>
<tr><td colspan="3" style="background:green;color:white">Combined Siren/Beacon wall mounted</td><td style="text-align:right">VdS   CE</td></tr>
</table>

SBC ESFA2000RRS	lens red, socket red, small	**30-6300010-01-01**
SBC ESFA2000RRD	lens red, socket red, deep	**30-6300010-02-01**
SBC ESCA3000WWS	lens clear, socket white, small	**30-6300010-03-01**
SBC ESCA3000WWD	lens clear, socket white, deep	**30-6300010-04-01**

The optical signal transmitter is **according to EN 54-23.** It serves to signal a fire alarm audibly and optically in buildings; with an additional IP65 base it can also be used outdoors.
The signal transmitter can be mounted on the ceiling (category C).

- Flashing frequency 0,5 or 1 Hz
- Sound level DIN tone 97 dB (A)

Operating voltage:	17 to 60 V DC
Current consumption:	25 mA
Protection class:	
SBC ESFA2000RRS / SBC ESCA3000WWS	IP21C
SBC ESFA2000RRD / SBC ESCA3000WWD	IP65
Operating temperature:	-10°C to +70°C
Weight:	
SBC ESFA2000RRS / SBC ESCA3000WWS	220 g
SBC ESFA2000RRD / SBC ESCA3000WWD	270 g
Dimensions (ØxH):	
SBC ESFA2000RRS / SBC ESCA3000WWS	
	100 x 95 mm
SBC ESFA2000RRD / SBC ESCA3000WWD	
	100 x 117 mm
Material:	Polycarbonate
Color:	flame red (RAL 3000)
	signal white (RAL 9003)

Approvals

VdS-Approval:	
SBC ESFA	G 214108
SBC ESCA	G 214106
Declaration of Performance (DoP):	
SBC ESFA	0832-CPR-F0147
SBC ESCA	0832-CPR-F0008

18. Room Indication Lamps

Room Indication Lamp			CE

RAL 720X   IP42   **246336**

RAL 721   IP65   **210056**

RAL 722   IP42   **210064**

RAL 723   IP40   **246565**

RAL 728 Ex   IP66   **249696**

RAL 720X

RAL 721

RAL 722

RAL 723

RAL 728 Ex

Alarm indication of fire detectors which are not directly visible e.g. behind doors or which are mounted in a hidden place e.g. false ceiling.
Activation from detector output or via appropriate output module.

Operating voltage:	5 to 30 V DC
RAL 728 Ex	12.. 254 VAC / DC
Current consumption:	
RAL 720X	max. 1 mA
RAL 721/ 722 / 723	max. 4.9 mA
RAL 728 Ex	max. 15 mA
Protection class:	
RAL 720X	IP42
RAL 721	IP65
RAL 722	IP42
RAL 723	IP40
RAL 728 Ex	IP66
Operating temperature:	-20°C to +60°C
Weight:	
RAL 720X	53 g
RAL 721	55 g
RAL 722	15 g
RAL 723	11 g
RAL 728 Ex	125 g
Dimensions (ØxH):	
RAL 720X	85 x 85 x 30 mm
RAL 721	53 x 70 x 53 mm
RAL 722	20 x 68 mm
RAL 723	48,5 x 20 x 16 mm
RAL 728 Ex	80 x 93 x 92 mm
Color (socket / lens):	
RAL 720X	Plastic PC, white / Plastic transparent, red
RAL 721	Plastic PC, white / Plastic transparent, red
RAL 722	Plastic, white / Plastic transparent, red
RAL 723	Plastic, white / Plastic transparent, white
RAL 728 Ex	Plastic PC, black / Plastic transparent, red

Accessories		
Cover plate for RAL 722	Z RAL 718/722	192198
Raised floor console for RAL 722	HKS 718	144223
Bottom and Cover for RAL 720	RAL REH	201820

19. Special Detectors

WS 61 A   **133981**

The water detector WS 61 is sensitive to smallest amounts of water. Two sensors just above the floor activate a potential free changeover contact as soon as they get in contact with water and will thus release an alarm.

- Detects not only water but also other conductive liquids
- Completely waterproof housing
- Low current consumption
- Suitable for remote testing

Operating voltage:	12 to 24 V DC
Current consumption:	10 mA
Protection class:	IP65
Operating temperature:	-20°C to +60°C
Weight:	125 g
Dimensions with base (HxWxD):	48 x 112 x 25 mm

20. Modernisation Parts for SecuriFire 3000

Universal Alarm & Control Module		VdS CE

UAC 150   30-5700010-01-02

The UAC 150 is a Universal Alarm and Control Module of fire detection technology. It is an addressable module which can be used both as a signal receiver for devices with switching contacts (detector) and as a control module for self-powered external devices (actuator).
  - Max cable length input/output: 3 m

Operating voltage:	18 to 30 V DC
Current consumption:	0,12 mA
Protection class:	IP20 with case IP66
Operating temperature:	-20°C to +60°C
Weight:	125 g
Dimensions (HxWxD):	46 x 60 x 15 mm
Material:	Polystyrol

Approvals

VdS-Approval:	G 211002
Declaration of Performance (DoP):	CPR-30-13-016

Accessories		
Housing for loop module IP66	GEH MOD IP66	FG020234

Note:
Run out phase.

Modernisation Parts for SecuriFire 3000

Multicriteria Modernisation Detector	VdS CE

MMD 140 30-5000001-01-02

The MMD 140 is an automatic detector for smoke or heat, selectable via DIL-switch. It is individual addressable and operates via the fire detector line technique 140 on the Securiton fire alarm system SecuriFire, SecuriPro and BMZ.

Operating voltage:	14 to 30 V DC
Current consumption:	0,11 mA
Protection class:	IP44
Operating temperature:	-25°C to +60°C
Weight:	130 g
Dimensions with base (ØxH):	118,8 x 58,1 mm
Material:	ABS / PC
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G 209219
Declaration of Performance (DoP):	CPR-30-13-010

Assembly hint:
The RAL Classic color system is available as an assortment for all MC colored product variants.
➔ Please refer to chapter RAL Colors.

Note:
Run out phase.

Multicriteria Modernisation Detector

VdS CE

MMD 150

30-5000002-01-02

The MMD 150 is an automatic detector for smoke or heat, selectable via DIL-switch. It is individual addressable and operates via the fire detector line technique 150 on the Securiton fire alarm system SecuriFire and BMZ.

Operating voltage:	18 to 30 V DC
Current consumption:	0,11 mA
Protection class:	IP44
Operating temperature:	-25°C to +60°C
Weight:	130 g
Dimensions with base (ØxH):	118,8 x 58,1 mm
Material:	ABS / PC
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G 209218
Declaration of Performance (DoP):	CPR-30-13-011

Assembly hint:
The RAL Classic color system is available as an assortment for all MC colored product variants.
➔ Please refer to chapter RAL Colors.

Note:
Run out phase.

Modernisation Duct Smoke detector for FAS 3401

LKM 140

30-5500003-01-01

For early detection of smouldering and open fires with smoke development. For mounting in the LKM-Set, for ventilation ducts.
Modernisation detector for FAS 3401 stub lines.
- Signature alarm for smoke
- Smoke pre-signal
- Alarm threshold tracking

Operating voltage:	14 to 30 V DC
Current consumption:	0,1 mA
Operating temperature:	-25°C to +60°C
Weight:	125 g
Dimensions with base (ØxH):	118,8 x 58,1 mm
Material:	ABS/PC
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G 216072

Note:
Run out phase.

Modernisation Duct Smoke detector for FAS 3401 and BMZ 360

LKM 150

30-5500004-01-01

For early detection of smouldering and open fires with smoke development. For mounting in the LKM-Set, for ventilation ducts.
Modernisation detector for FAS 3401 and BMZ 360 loops.

Operating voltage:	18 to 30 V DC
Current consumption:	0,1 mA
Operating temperature:	-25°C to +60°C
Weight:	125 g
Dimensions with base (ØxH):	118,8 x 58,1 mm
Material:	ABS/PC
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G 216073
Declaration of Performance (DoP):	CPR-30-16-030

Note:
Run out phase.

Manual call points modernisation, Type B

 VdS C €

| MCP 140-1 | IP54 | 30-5700001-01-02 |
| MCP 140-3 | IP52 | 30-5700001-03-02 |

The addressable manual call point MCP 140 fulfils the EN54-11and VdS standard. It is from type B (double action) and operates via the fire detector line technique 140 on the Securiton fire alarm system SecuriFire, SecuriPro and BMZ.

Operating voltage:	18 to 30 V DC
Current consumption:	0,08 mA
Protection class:	IP 52
Operating temperature:	-20°C to +50°C
Weight:	245 g
Dimensions (HxWxD):	135 x 135 x 36 mm
Material:	ASA
Color:	signal red (RAL 3001)

Approvals

VdS-Approval:	G 209221
Declaration of Performance (DoP):	CPR-30-13-004

Manual call points modernisation, Type B

VdS C €

| MCP 150-1 | IP54 | 30-5700002-01-02 |
| MCP 150-3 | IP52 | 30-5700002-03-02 |

The addressable manual call point MCP 150 fulfils the EN54-11 and VdS standard. It is from type B (double action) and operates via the fire detector line technique 150 on the Securiton fire alarm system SecuriFire and BMZ.

Operating voltage:	18 to 30 V DC
Current consumption:	0,08 mA
Protection class:	IP 52
Operating temperature:	-20°C to +50°C
Weight:	245 g
Dimensions (HxWxD):	135 x 135 x 36 mm
Material:	ASA
Color:	signal red (RAL 3001)

Approvals

VdS-Approval:	G 209220
Declaration of Performance (DoP):	CPR-30-13-019

21. Overvoltage Protection Devices

Lightning and surge arrester combination device, type 1+2 (for PSU)

CE

FLT-SEC-T1+T2-1S-350/25-FM

30-6900078-01-01

Plug-in lightning and overvoltage arrester combination, in accordance with Type 1+2/Class I+II, for 1-phase power supply networks, with separate N and PE (L1, PE, N)
- IEC test classification T1+T2

Operating voltage:	240 VAC
Protection class:	IP20
Operating temperature:	-40°C to +80°C
Dimensions (HxWxD):	95,2 x 71,2 x 74,5 mm
Material:	PBT-FR
Color:	light grey (RAL 7035) traffic grey (RAL 7042)

Surge protection device, type 3 (for PSU)

CE
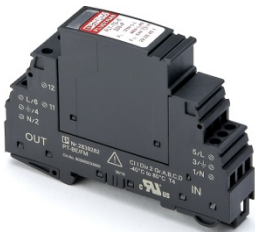
PLT-T3-IT-230-FM

30-6900079-01-01

Overvoltage protection type 3, as device protection for termination devices in IT systems, error indication and remote indicator contact.
- Surge voltage category III
- Pollution degree 2
- IEC test classification T3

Operating voltage:	230 VAC
Protection class:	IP20
Operating temperature:	-40°C to +70°C
Dimensions (HxWxD):	90 x 17,7 x 65,5 mm
Material:	PA 6.6
Color:	jet black (RAL 9005)

Surge protection device, class C1, C2, D1 (for DXI or LEExx)

CE

PT-IQ-4x1+F-24DC-PT

30-6900080-01-01

Overvoltage protection, consisting of protective plug and base element, with integrated multi-stage status indicator on the module for four signal wires with common reference potential. Indirect grounding via gas-filled surge arrester.
- IEC test classification C1+C2+D1

Operating voltage:	24 V DC
Protection class:	IP20
Operating temperature:	-40°C to +80°C
Dimensions (HxWxD):	109,3 x 17,7 x 77,5 mm
Material:	PA 6.6
Color:	jet black (RAL 9005)

Surge protection device, class C1, C2, D1 (for Input, output or detector zones)

$C\,\epsilon$

PT-IQ-2x1+F-24DC-PT

30-6900081-01-01

Overvoltage protection, consisting of protective plug and base element, with integrated multi-stage status indicator on the module for two signal wires with common reference potential. Indirect grounding via gas-filled surge arrester.

- IEC test classification C1+ C2+D1

Operating voltage:	24 V DC
Protection class:	IP20
Operating temperature:	-40°C to +80°C
Dimensions (HxWxD):	109,3 x 17,7 x 77,5 mm
Material:	PA 6.6
Color:	jet black (RAL 9005)

Surge protection device, class C1, C2, D1 (for MMI-Bus or SecuriLan)

$C\,\epsilon$

PT-IQ-5-HF+F-5DC-PT

30-6900082-01-01

Overvoltage protection, consisting of protective plug and base element, with integrated multi-stage status indicator on the module for five signal wires. For HF applications and telecommunications interfaces without supply voltage (up to 90 Mbps).

- IEC test classification C1+C2+D1

Operating voltage:	5 V DC
Protection class:	IP20
Operating temperature:	-40°C to +80°C
Dimensions (HxWxD):	109,3 x 17,7 x 77,5 mm
Material:	PA 6.6
Color:	jet black (RAL 9005)

Module for supply and remote signaling of connected surge protection devices

$C\,\epsilon$

PT-IQ-PTB-PT

30-6900083-01-01

Controller for power supply and multi-stage, floating remote signaling of connected overvoltage protection modules.

Operating voltage:	30 VAC / 50 V DC
Protection class:	IP20
Operating temperature:	-40°C to +80°C
Dimensions (HxWxD):	109,3 x 17,7 x 77,5 mm
Material:	PA 6.6
Color:	jet black (RAL 9005)

Overvoltage Protection Devices

Surge protection device, class C1, C2, D1 (for SecuriLan)

$C \in$

TT-SLKK5-F/110A

30-6900084-01-01

Modular terminal block with gas-filled overvoltage arrester as coarse protection between clamping connector and DIN rail, separate PE connection, nominal voltage: 110 V AC, mounting on NS 35/7.5, terminal width: 6.2 mm, terminal height: 69 mm

- IEC test classification C1+C2+D1

Operating voltage:	110 VAC / 150 V DC
Protection class:	IP20
Operating temperature:	-40°C to +80°C
Dimensions (HxWxD):	66,5 x 6,2 x 69,5 mm
Material:	PA
Color:	jet black (RAL 9005)

Accessories and Spare Parts for SecuriAir

Various spare parts

	Shield clamps for cable Ø 3-6 mm	SSA 3-6	30-6800068-01-01
	Shield clamps for cable Ø 5-10 mm	SSA 5-10	30-6800068-02-01
	Trough terminal for networking packing unit 2 pcs.	STU 10/4x2,5 2er	30-6800069-01-01
	Connector to connect surge protection devices with PT-IQ-PTB-PT packing unit 2 pcs.	FK-MC 0,5/ 5-ST-2,5 2er	30-6800071-01-01
	Earth lead terminal 0,5 to 10 mm²	USLKG 10 N	30-6800072-01-01
	Housing with cap rail, transparent cover Dimensions (HxWxD):175 x 175 x 100 mm	GEH HS TP	30-6800070-01-01
	Housing with cap rail, not transparent cover Dimensions (HxWxD):175 x 175 x 100 mm	GEH HS GS	30-6800070-02-01

22. Batteries

Backup Battery 12V / 2,2 Ah   [VdS] CE

SBV 2.3-12   30-2310001-01-02

Battery, Pb, 12V, 2,2 Ah capacity.
VdS approved

Weight:	1000 g
Dimensions (HxWxD):	69 x 36 x 180 mm

Approvals

VdS-Approval:	G 110047

Backup Battery 12V / 6.5-7 Ah   [VdS] CE

WP7.2-12A   30-2310002-01-01

Battery, Pb, 12V, 6.5 Ah capacity.
VdS approved

Weight:	2200 g
Dimensions (HxWxD):	153 x 67 x 102 mm

Approvals

VdS-Approval:	G 114047

Backup Battery 12V / 10-12 Ah   [VdS] CE

WP12-12A   30-2310003-01-01

Battery, Pb, 12V, 10 Ah capacity.
VdS approved

Weight:	4000 g
Dimensions (HxWxD):	153 x 92 x 102 mm

Approvals

VdS-Approval:	G 114037

Backup Battery 12V / 16-18 Ah   [VdS] CE

WP18-12SHR   30-2310004-01-01

Battery, Pb, 12V, 16 Ah capacity.
VdS approved

Weight:	6000 g
Dimensions (HxWxD):	183 x 78 x 169 mm

Approvals

VdS-Approval:	G 114033

Batteries

Backup Battery 12V / 24-27 Ah VdS CE

WP26-12 30-2310005-01-01

Battery, Pb, 12V, 24 Ah capacity.
VdS approved

Weight:	8200 g
Dimensions (HxWxD):	168 x 177 x 127 mm

Approvals

VdS-Approval:	G 103065

Backup Battery 12V / 38-45 Ah VdS CE

WP45-12 30-2310006-01-01

Battery, Pb, 12V, 38 Ah capacity.
VdS approved

Weight:	17'000 g
Dimensions (HxWxD):	199 x 167 x 172 mm

Approvals

VdS-Approval:	G 182024

Backup Battery 12V / 65 Ah VdS CE

WP65-12 30-2310007-01-01

Battery, Pb, 12V, 65 Ah capacity.
VdS approved

Weight:	20'000 g
Dimensions (HxWxD):	174 x 350 x 166 mm

Approvals

VdS-Approval:	G 105088

Backup Battery 12V / 85 Ah VdS CE

A512/85 A 30-2310008-01-01

Battery, Pb, 12V, 85 Ah capacity.
VdS approved

Weight:	20'000 g
Dimensions (HxWxD):	236 × 330 × 171 mm

Approvals

VdS-Approval:	G 190046

23. Installation, Test and Commissioning Tools

23.1. Detector Test Equipment

**Univ. Detector Remover, standard version
for detector series 523/533/563/573**

UDR 533 S   **5600095-0201**

Removal and insertion of SecuriStar detector series
523/533 and 563/573.
- solid version
- Pluggable on telescopic pole series UTP

Weight:	ca. 350 g
Dimensions (ØxH):	98 × 232 mm

**Univ. Detector Remover, cardan version
for detector series 523/533/563/573**

UDR 533 K   **5600096-0201**

Removal and insertion of SecuriStar detector series
523/533 and 563/573.
- With cardan joint
- Pluggable on telescopic pole series UTP

Weight:	540 g
Dimensions (ØxH):	148 × 247,5 mm

**Adapter for UDR 521/531 K
for detector series 523/533/563/573**
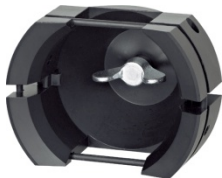
UDR 533 A   **5600094-0201**

The UDR 533 A serves as exchangeable adaptor and can
be inserted into the UDR 521/531 K, detector removers for
SecuriStar detector series, 523/533, 563/573.

Weight:	160 g
Dimensions (ØxH):	98 × 62 mm

**Univ. Detector Remover for STD, SSD, UTD 5x1
with gum links**

UDR 521/531   **5600075**

The UDR 521/ 531 serves as exchangeable adaptor and
can be inserted into the UDR 521/531 K, detector
removers for SecuriStar detector series STD, SSD, UTD
5x1 with gum links

Weight:	160 g
Dimensions (ØxH):	97 x 62 mm

Installation, Test and Commissioning Tools

Univ. Detector Remover, cardan version for STD, SSD, UTD 5x1

UDR 521/531 K

5600076

The UDR 521/ 531 serves as exchangeable adaptor and can be inserted into the UDR 521/531 K, detector removers for SecuriStar detector series STD, SSD, UTD 5x1 with cardanic mounting

Detector remover for SecuriAir FDOOT271-O

FDUD291

20-3001151-01-01

The detector remover for SecuriAir radio fire detectors FDOOT271-O. It can be inserted into the adapter UTP 918 which can be mounted on the standard pole UTP 6 and UTP 7.

Weight:	594 g
Dimensions (HxWxD):	121 × 390 mm

Detector Test Equipment

Adapter and Extension Poles

	Adapter SOLO-Testpole to UDR 533	ASU 533	5600099-0201
	Universal Telescope pole 1,7 to 3,0 m	UTP 6	5600072
	Universal Telescope pole 2,2 to 4,0 m	UTP 7	5600073
	Adapter to mount the FDUD291 SecuriAir detector remover on the universal telescope pole UTP 6 and UTP 7	UTP 918	5600080
	Extension piece 1.35 m for UTP 6 and UTP 7. For working height up to: 6,0 m / 7,00 m	UTP 5	3330253

Fire Detector Test Equipment 533

FDT 533
5600097-0201

Fire Detector Test equipment.
For SecuriStar detector series 523/533, 563/573 (smoke and heat) and for the SecuriStar detector series 521/531 (only smoke).
- Pluggable on telescopic pole series UTP
- For using with 918/5 test gas can

Weight:	360 g

CO test extension for FDT 533 CO-Set

FDT 533 CO-SET
30-5600001-01-01

For the optional enhancement of the FDT 533 for testing the CO functionality of the multiple sensor detector CCD573X.
- Pluggable on FDT 533
- For using with CO test gas can

Weight:	305 g

Test gas

918/5 Test gas   **– Attention: Danger**
3330253

Regulation (EC) No. 1272/2008

For functional testing of smoke detectors. Lasts for approx. 200 tests. Free of halogenated hydrocarbons.

Hazard statements:

H222 Extremely flammable aerosol
H229 Pressurised container: May burst if heated
H319 Causes serious eye irritation
H336 May cause drowsiness or dizziness
Dangerous goods may cause additional costs on airfreight.

CO Test gas

SOLO C3   **– Attention: Warning**
3330253

Regulation (EC) No. 1272/2008

For functional testing of CO detectors. Carbon monoxide is a highly toxic, colorless and odorless gas.

Hazard statements:

H229 Pressurised container: May burst if heated
Dangerous goods may cause additional costs on airfreight.

Installation, Test and Commissioning Tools

Smoke and Heat Det. Test Kit		CE

Testifire 1001		**6900451-0201**
Testifire 2001	Including carbon monoxide release for testing of CO detectors	**6900452-0201**

Fire Detector Test equipment for SecuriStar detector series 521/531, 523/533, 563/573 smoke detectors, heat detectors and combined detectors (smoke and heat) as well for the HX detector series.
- Creates smoke and heat from the same unit
- Integrated ventilator for rapid air cleaning inside tester
- Activation via infrared sensor, no mechanical contact
- Multilanguage user menu on the display
- Battery powered, free movable device

Complete set including:
- Test device smoke and heat
- two battery batons
- battery charger

Protection class:	IP20
Operating temperature:	-10 °C to +50 °C
Weight:	1200g
Dimensions (ØxH):	153 × 273 mm

Accessories and Spare Parts for Testifire

Testing Capsules			
	Smoke capsule for Testifire 1001 and 2001	Smoke Capsule TS3	6900453-0201
	CO capsule for Testifire 2001	CO Capsule TC3	6900454-0201

Batteries for Testifire			
	Battery baton for Testifire 1001 and 2001	Solo 770	30-6900100-01-01
	Universal fast battery charger for Testifire 1001 and 2001	Solo 727	30-6900099-01-01

Telescopic and Extension Pole for Testifire			
	Fibreglass 4 Section Telescopic Pole - 4.5 m Accepts up to three Solo 101	Solo 100	6900459-0201
	Fibreglass 2 Section Telescopic Pole - 2.5 m Accepts additional Solo 101	Solo 108	6900460-0201
	Fibreglass Extension Pole - 1,13 m	Solo 101	6900461-0201

Storage Bags for Testifire			
	Bag for tester and access poles	Solo 610	6900457-0201
	Separate Pole Carrying / Storage Bag for access poles	Solo 620	6900458-0201

23.1. Loop Test Equipment

Loop Test Board (incl. AC/DC adapter)	$C\epsilon$

STB 01X-E

50-1000004-02-04

Hand held control device for testing and troubleshooting of the SecuriLine eXtended installation and their participants. Includes the power supply adapter (100-240 VAC/24 V DC) and an USB serial interface to a PC. Suitable for SecuriLine eXtended up to 250 loop devices.

Protection class:	IP20
Operating temperature:	+5 °C to +40 °C
Weight:	480 g
Dimensions (HxWxD):	220 × 116 × 95 mm
Material:	Polyamid
Color:	black grey (RAL 7021)

Accessories		
STB 01X Transport case	CASE STB 01X	50-1000019-01-01

24. RAL-Colors

Multicolor products (MC) are available in 210 different RAL CLASSIC colors.
RAL colors with metallic contents and luminous colors are not available due to technical reasons.
- Metallic paints cause EMV discharge according to EN 61000-4-2.
- The luminous colors can be implemented only by repeated painting, instead of the usual 1-2 layers, up to 4-5 layers are required for the luminous colors. Therefore, it comes to complications when screwing the detector into the socket. Those lines are crossed-out.

Please order all MC variants with color and gloss level. Possible gloss levels are: semi-gloss and glossy.
Example:
RAL 6002 glossy

RAL Nr.	Description	RAL Nr.	Description	RAL Nr.	Description
RAL 1000	Green beige	RAL 3001	Signal red	RAL 5010	Gentian blue
RAL 1001	Beige	RAL 3002	Carmine red	RAL 5011	Steel blue
RAL 1002	Sand yellow	RAL 3003	Ruby red	RAL 5012	Light blue
RAL 1003	Signal yellow	RAL 3004	Purple red	RAL 5013	Cobalt blue
RAL 1004	Golden yellow	RAL 3005	Wine red	RAL 5014	Pigeon blue
RAL 1005	Honey yellow	RAL 3007	Black red	RAL 5015	Sky blue
RAL 1006	Maize yellow	RAL 3009	Oxide red	RAL 5017	Traffic blue
RAL 1007	Daffodil yellow	RAL 3011	Brown red	RAL 5018	Turquoise blue
RAL 1011	Brown beige	RAL 3012	Beige red	RAL 5019	Capri blue
RAL 1012	Lemon yellow	RAL 3013	Tomato red	RAL 5020	Ocean blue
RAL 1013	Oyster white	RAL 3014	Antique pink	RAL 5021	Water blue
RAL 1014	Ivory	RAL 3015	Light pink	RAL 5022	Night blue
RAL 1015	Light ivory	RAL 3016	Coral red	RAL 5023	Distant blue
RAL 1016	Sulfur yellow	RAL 3017	Rose	RAL 5024	Pastel blue
RAL 1017	Saffron yellow	RAL 3018	Strawberry red	RAL 5025	Pearl gentian blue
RAL 1018	Zinc yellow	RAL 3020	Traffic red	RAL 5026	Pearl night blue
RAL 1019	Grey beige	RAL 3022	Salmon pink	RAL 6000	Patina green
RAL 1020	Olive yellow	RAL 3024	Luminous red	RAL 6001	Emerald green
RAL 1021	Rape yellow	RAL 3026	Luminous bright red	RAL 6002	Leaf green
RAL 1023	Traffic yellow	RAL 3027	Raspberry red	RAL 6003	Olive green
RAL 1024	Ochre yellow	RAL 3031	Orient red	RAL 6004	Blue green
RAL 1026	Luminous yellow	RAL 3032	Pearl ruby red	RAL 6005	Moss green
RAL 1027	Curry	RAL 3033	Pearl pink	RAL 6006	Grey olive
RAL 1028	Melon yellow	RAL 4001	Red lilac	RAL 6007	Bottle green
RAL 1032	Broom yellow	RAL 4002	Red violet	RAL 6008	Brown green
RAL 1033	Dahlia yellow	RAL 4003	Heather violet	RAL 6009	Fir green
RAL 1034	Pastel yellow	RAL 4004	Claret violet	RAL 6010	Grass green
RAL 1035	Pearl beige	RAL 4005	Blue lilac	RAL 6011	Reseda green
RAL 1036	Pearl gold	RAL 4006	Traffic purple	RAL 6012	Black green
RAL 1037	Sun yellow	RAL 4007	Purple violet	RAL 6013	Reed green
RAL 2000	Yellow orange	RAL 4008	Signal violet	RAL 6014	Yellow olive
RAL 2001	Red orange	RAL 4009	Pastel violet	RAL 6015	Black olive
RAL 2002	Vermilion	RAL 4010	Telemagenta	RAL 6016	Turquoise green
RAL 2003	Pastel orange	RAL 4011	Pearl violet	RAL 6017	May green
RAL 2004	Pure orange	RAL 4012	Pearl blackberry	RAL 6018	Yellow green
RAL 2005	Luminous orange	RAL 5000	Violet blue	RAL 6019	Pastel green
RAL 2007	Luminous bright orange	RAL 5001	Green blue	RAL 6020	Chrome green
RAL 2008	Bright red orange	RAL 5002	Ultramarine blue	RAL 6021	Pale green
RAL 2009	Traffic orange	RAL 5003	Sapphire blue	RAL 6022	Olive drab
RAL 2010	Signal orange	RAL 5004	Black blue	RAL 6024	Traffic green
RAL 2011	Deep orange	RAL 5005	Signal blue	RAL 6025	Fern green
RAL 2012	Salmon orange	RAL 5007	Brillant blue	RAL 6026	Opal green
RAL 2013	Pearl orange	RAL 5008	Grey blue	RAL 6027	Light green
RAL 3000	Flame red	RAL 5009	Azure blue	RAL 6028	Pine green

RAL Nr.	Description	RAL Nr.	Description	RAL Nr.	Description
RAL 6029	Mint green	RAL 7030	Stone grey	RAL 8012	Red brown
RAL 6032	Signal green	RAL 7031	Blue grey	RAL 8014	Sepia brown
RAL 6033	Mint turquoise	RAL 7032	Pebble grey	RAL 8015	Chestnut brown
RAL 6034	Pastel turquoise	RAL 7033	Cement grey	RAL 8016	Mahogany brown
~~RAL 6035~~	~~Pearl green~~	RAL 7034	Yellow grey	RAL 8017	Chocolate brown
~~RAL 6036~~	~~Pearl opal green~~	RAL 7035	Light grey	RAL 8019	Grey brown
RAL 7000	Squirrel grey	RAL 7036	Platinum grey	RAL 8022	Black brown
RAL 7001	Silver grey	RAL 7037	Dusty grey	RAL 8023	Orange brown
RAL 7002	Olive grey	RAL 7038	Agate grey	RAL 8024	Beige brown
RAL 7003	Moss grey	RAL 7039	Quartz grey	RAL 8025	Pale brown
RAL 7004	Signal grey	RAL 7040	Window grey	RAL 8028	Terra brown
RAL 7005	Mouse grey	RAL 7042	Traffic grey A	~~RAL 8029~~	~~Pearl copper~~
RAL 7006	Beige grey	RAL 7043	Traffic grey B	RAL 9001	Cream
RAL 7008	Khaki grey	RAL 7044	Silk grey	RAL 9002	Grey white
RAL 7009	Green grey	RAL 7045	Telegrey 1	RAL 9003	Signal white
RAL 7010	Tarpaulin grey	RAL 7046	Telegrey 2	RAL 9004	Signal black
RAL 7011	Iron grey	RAL 7047	Telegrey 4	RAL 9005	Jet black
RAL 7012	Basalt grey	~~RAL 7048~~	~~Pearl mouse grey~~	~~RAL 9006~~	~~White aluminium~~
RAL 7013	Brown grey	RAL 8000	Green brown	~~RAL 9007~~	~~Grey aluminium~~
RAL 7015	Slate grey	RAL 8001	Ochre brown	RAL 9010	Pure white
RAL 7016	Anthracite grey	RAL 8002	Signal brown	RAL 9011	Graphite black
RAL 7021	Black grey	RAL 8003	Clay brown	RAL 9016	Traffic white
RAL 7022	Umbra grey	RAL 8004	Copper brown	RAL 9017	Traffic black
RAL 7023	Concrete grey	RAL 8007	Fawn brown	RAL 9018	Papyrus white
RAL 7024	Graphite grey	RAL 8008	Olive brown	~~RAL 9022~~	~~Pearl light grey~~
RAL 7026	Granite grey	RAL 8011	Nut brown	~~RAL 9023~~	~~Pearl dark grey~~

25. Product Index

Product Index

Product Index

SecuriSmoke ASD 531/532/533/535

Product Catalogue 2020

Content

1. Introduction

ASD 535-1 — One channel
ASD 535-2 — Two channels
ASD 535-3 — One channel, Smoke level indicator
ASD 535-4 — Two channels, Smoke level indicator
ASD 533 — One channel
ASD 532 — One channel, Smoke level indicator
ASD 531 — One channel

SecuriRAS ASD aspirating smoke detectors: the complete model range for any application

Aspirating smoke detectors from Securiton are among the most precise and most reliable early warning systems against fires. The SecuriRAS ASD detector series impresses by virtue of its unrivalled capabilities. Developed in Switzerland and manufactured in Germany, the detectors are particularly reliable and robust. Thanks to their sophisticated detection technology, they can detect incipient fires immediately. Whether in IT racks, production halls or large deepfreeze areas, Securiton has the perfect fire protection solution for all safety requirements. SecuriRAS ASD detectors are available in three models, with the main difference between them being the maximum possible monitoring area. This means that protection without compromise is now even more cost-effective in small premises. All detectors can be seamlessly integrated into the SecuriFire fire detection system and are extremely durable thanks to their robust design.

A combination of sensitivity and speed

In terms of smoke concentration, the alarm sensitivity of the HD (high-dynamic) smoke sensor ranges from 0.002%/m to 10%/m. This is equivalent to the sensitivity spectrum of a laser-based detector. In the extra-large LVSC (large-volume smoke chamber), the sensor permanently analyses the airflow with a high-power LED using tried-and-tested scattered light technology. It meticulously detects even the slightest increases in smoke concentration. With its patented lint filter, it suppresses even the finest dust particles that would otherwise falsify the detection process. Thanks to its optimised aerodynamic measuring chamber, the smoke sensor is also immune to dust deposits. This means that there is little chance of false alarms. Up to five alarm levels can be programmed within the sensitivity range of 0.002%/m to 10%/m. You can then rest assured that individual measures can be taken for each monitored zone. With dangers and hazards detected this precisely, any necessary alarm response is focused and extremely swift.

2. System Comparison Chart

	ASD 535	ASD 533	ASD 532	ASD 531
Channels	1/2	1	1	1
Smoke sensor	High-sensitivity smoke sensor with high-power LED, LVSC smoke chamber and patented lint filter			
Monitoring area	5760 m^2	1920 m^2	1280 m^2	720 m^2
Pipe length	2 x 300m	200m	120m	75m
Max number of holes				
Class A	2 x 18	16	8	6
Class B	2 x 56	50	12	8
Class C	2x 120	50	16	12
Direct integration in SecuriFire fire detection system	Yes, with XLM-35 module (alarm, pre-signal, faults, day/night sensitivity switching, reset etc.)			
Interfaces	Relays, USB, RS485, Inputs	Relays, USB, Inputs	Relays, Ethernet, RS485, Inputs	Relays, Inputs
Optional modules	4 slots for: RIM35, SIM35, XLM35, MCM35	4 slots for: RIM35, XLM35, MCM35	2 slots for: RIM36, SIM35, XLM35	2 slots for: RIM36, XLM35
Smoke level indicator	Optional (version -3 and -4)	No	Series	No
Programming (PC tool)	ASD Config	ASD Config	ASD Config	Not available
Configuration	EasyConfig	EasyConfig	EasyConfig	BasiConfig
Calculation of sampling pipes	ASD PipeFlow	ASD PipeFlow	ASD PipeFlow	ASD PipeFlow

3. System Overview

3.1. ASD 535
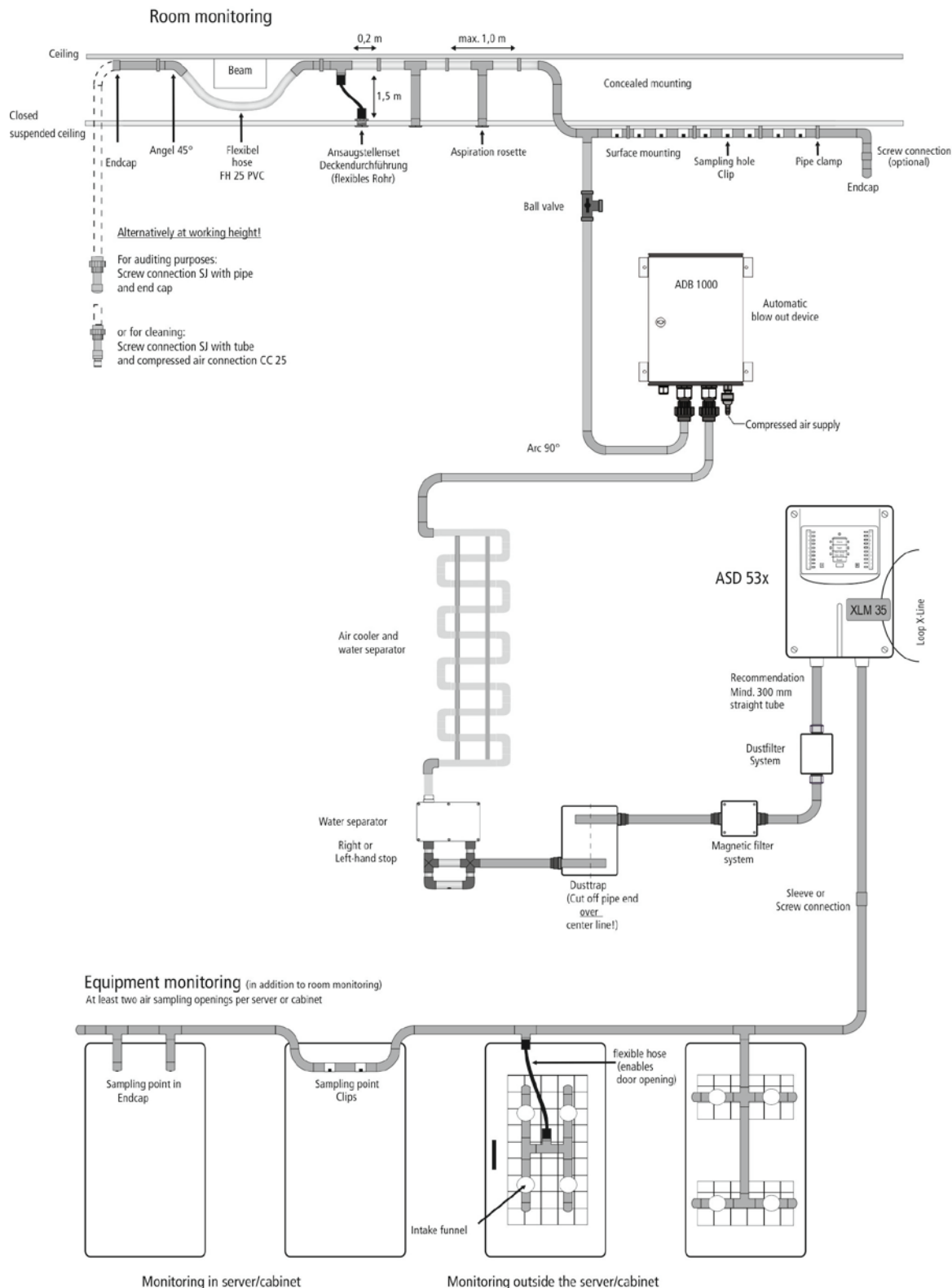
The illustrated components are examples and can be combined within the scope of the technical possibilities.
The technical documentation, installation instructions and regional standards must be observed.
The planning and calculation software ASD Pipeflow is to be consulted for project engineering since the devices have different expansion stages.

4. Overview compatibility

	ASD 531		ASD 532		ASD 535 / 533	
Project planning:	Technical Document	PipeFlow (Software)	Technical Document	PipeFlow (Software)	Technical Document	PipeFlow (Software)
Configuration:	BasiConfig (on board)		EasyConfig (on board) or ASD Config (Software)	ASD Config (Software)	EasyConfig (on board) or ASD Config (Software)	ASD Config (Software)
Filter						
DFU 911	✔	✔	✔	✔	✔	✔
Capillary tube						
TU 6 PVC	✖	✖	✖	✔	✖	✖
Heating material for LT applications						
All material	✖	✖	✖	✖	✔	✔
Detonation flame arrester for Ex applications						
DFA 25-1	✖	✖	✖	✖	✖	✔
DFA 25-2	✖	✖	✖	✖	✖	✔
DFA 25-3	✖	✖	✖	✖	✖	✔
Automatic blow out device						
ADB 500	✖	✔	✖	✔	✖	✔
ADB 1000	✖	✔	✖	✔	✖	✔
ADB 2000	✖	✔	✖	✔	✖	✔
Detector box						
REK 511	✖	✔	✔	✔	✔	✔
Auxiliary module						
RIM 35	✖	✖	✖	✖	✔	✔
RIM 36	✔	✔	✔	✔	✖	✖
SLM 35	✖	✖	✖	✖	✔	✔
XLM 35	✔	✔	✔	✔	✔	✔
MCM 35	✖	✖	✖	✖	✔	✔
SIM 35	✖	✖	✔	✔	✔	✔

5. Aspirating Systems

5.1. ASD Base Units

ASD 531   including SSD 31   **11-2000002-01-03**

The SecuriRAS ASD 531 aspirating smoke detector is designed for smaller monitoring areas and for the easiest possible handling.
The ASD 531 is equipped with a highly sensitive smoke sensor SSD 31 using a single sampling pipe network.
The housing provides the option for two expansion modules.
Commissioning and configuration is done directly on the device without any software tool.
For planning the ASD PipeFlow software allows an optimized design of any installation.

Mains voltage:	14 to 30 VDC
Power consumption:	77 mA
Protection class:	IP54
Operating temperature:	-10°C to +55°C
Weight of basic version:	1950 g
Dimensions (HxWxD):	290 x 195 x 140 mm
Material:	ABS-Blend, UL 94-V0
Color:	grey (RAL 280 70 05) anthracite (RAL 300 20 05)

Approvals

VdS-Approval:	G 215100
Declaration of Performance (DoP):	CPR-10-16-106

Aspirating Smoke Detector

ASD 532   **11-2000003-01-03**

The SecuriRAS ASD 532 aspirating smoke detector is designed for small to midsize monitoring areas.
The ASD 532 base unit is provided for a highly sensitive smoke sensor SSD 532 (to be ordered separately) for a single sampling pipe network.
The measured smoke level is indicated on a bar graph display.
The housing provides the option for two expansion modules.
Commissioning and configuration is done either directly on the device or via the ASD Config software tool.
For planning the ASD PipeFlow software allows an optimized design of any installation.

Mains voltage:	14 to 30 VDC
Power consumption:	100 mA
Protection class:	IP54
Operating temperature:	-20°C to +60°C
Weight of basic version:	2000 g
Dimensions (HxWxD):	290 x 195 x 140 mm
Material:	ABS-Blend, UL 94-V0
Color:	grey (RAL 280 70 05) anthracite (RAL 300 20 05)

Approvals

VdS-Approval:	G 215101
Declaration of Performance (DoP):	CPR-10-16-107

Aspirating Smoke Detector

ASD 533-1   including SSD 533   **11-2000001-01-02**

The ASD 533 aspirating smoke detector has the task of continuously taking air samples via a sampling pipe tube network from a monitored area and feeding the samples to a smoke sensor.

The ASD 533 consists of the detector housing and a sampling pipe tube network. The sampling pipe has several sampling holes whose size is such that each hole extracts the same amount of air. The sampling pipe may be I-, U-, T-, H-, or E-shaped. The sampling pipe is symmetrically designed in principle. Asymmetrical sampling pipe tube networks can also be implemented using the "ASD PipeFlow" calculation software.

Mains voltage:	10.5 to 30 VDC
Power consumption:	210 mA
Protection class:	IP54
Operating temperature:	-20°C to +60°C
Weight of basic version:	3255 g
Dimensions (HxWxD):	265 x 397 x 148 mm
Material:	ABS-Blend, UL 94-V0
Color:	grey (RAL 280 70 05)
	anthracite (RAL 300 20 05)

Approvals

VdS-Approval:	G 212163
Declaration of Performance (DoP):	CPR-11-13-100

Aspirating Systems

Aspirating Smoke Detector

ASD 535-1	1 Sampling pipe / Detector	**11-2000015-01-01**
ASD 535-2	2 Sampling pipes / Detectors	**11-2000016-01-01**
ASD 535-3	1 Sampling pipe / Detector, 1 Smoke level display	**11-2000017-01-01**
ASD 535-4	2 Sampling pipes / Detectors, 2 Smoke level displays	**11-2000018-01-01**

ASD 535-1

The SecuriRAS ASD 535 aspirating smoke detector is designed for universal applications mainly for midsize to large monitoring areas. The ASD 535 base units provide space for 1 or 2 highly sensitive smoke sensors SSD 535 (to be ordered separately) for 1 or 2 sampling pipe networks.

The measured smoke level can be indicated on a bar graph display (models -3 and -4). The housing provides the option for four expansion modules.
Commissioning and configuration is done either directly on the device orvia the ASD Config software tool.
For planning the ASD PipeFlow software allows an optimized deisgn of any installation.

ASD 535-2

Mains voltage:	10.5 to 30 VDC
Power consumption:	260 mA
Protection class:	IP54
Operating temperature:	-30°C to +60°C
Weight of basic version:	3550 g
Dimensions (HxWxD):	397 x 265 x 146 mm
Material:	ABS-Blend, UL 94-V0
Color:	grey (RAL 280 70 05) anthracite (RAL 300 20 05)

Approvals

VdS-Approval:	G 208154
Declaration of Performance (DoP):	CPR-10-16-101

ASD 535-3

ASD 535-4

Aspirating Smoke Detector Heavy Duty

ASD 535-3HD

ASD 535-4HD

ASD 535-3HD	1 Sampling pipe / Detector	**11-2000036-01-01**
ASD 535-4HD	2 Sampling pipes / Detectors	**11-2000037-01-01**

The SecuriRAS ASD 535-HD aspirating smoke detector is designed for special applications in very dusty and dirty monitoring areas. The ASD 535 base units provide space for 1 or 2 highly sensitive coated smoke sensors SSD 535CP (to be ordered separately) for 1 or 2 sampling pipe networks.

The measured smoke level can be indicated on a bar graph display. The housing provides the option for four expansion modules. The device can be expanded with the overvoltage protection board OPB911 up to 8kV. Commissioning and configuration is done either directly on the device orvia the ASD Config software tool.
For planning the ASD PipeFlow software allows an optimized deisgn of any installation.

Mains voltage:	10.5 to 30 VDC
Power consumption:	260 mA
Protection class:	IP66
Operating temperature:	-30°C to +60°C
Weight of basic version:	3550 g
Dimensions (HxWxD):	397 x 265 x 146 mm
Material:	ABS-Blend, UL 94-V0
Color:	grey (RAL 280 70 05) anthracite (RAL 300 20 05)

Approvals

VdS-Approval:	G 208154
Declaration of Performance (DoP):	CPR-11-20-111

Accessories		
Overvoltage protection OPB 911 coated	OPB 911 CP	11-2200038-01-01

5.2. Smoke Sensors (SSD)

Smoke Sensor for ASD 531	VdS CE

	SSD 31	Alarm Sensitivity range 0,02% – 10% /m	**11-2200009-01-02**

The smoke sensor SSD 31 is pre-installed in the ASD 531 and is also available as replacement part.
3 Pre-signals are set on a fixed percentage of the alarm threshold (30/50/70%).
- Sensitivity range alarm: 0.02 %/m – 10 %/m
- Sensitivity range pre-signals: 0.006 %/m – 7 %/m

Operating voltage:	5 VDC
Dimensions (HxWxD):	120 x 116 x 95 mm

Smoke Sensor for ASD 532	VdS CE

	SSD 532-3	Alarm Sensitivity range 0,02% – 10% /m	**11-2000004-03-02**

The smoke sensor SSD 532 has to be ordered separately for the ASD 532.
3 Pre-signals can be set between 10 and 90% of the alarm threshold.
- Sensitivity range alarm: 0.02 %/m – 10 %/m
- Sensitivity range pre-signals: 0.002 %/m – 9 %/m

Operating voltage:	5 VDC
Dimensions (HxWxD):	120 x 116 x 95 mm

Smoke Sensor for ASD 533	VdS CE

	SSD 533	Alarm Sensitivity range 0,02% – 10% /m	**11-2200006-01-02**

The smoke sensor SSD 533 is pre-installed in the ASD 533 and is also available as replacement part.
Pre-signals can be set between 10 and 90% of the alarm threshold
- Sensitivity range alarm: 0.02 %/m – 10 %/m
- Sensitivity range pre-signals: 0.006 %/m – 9 %/m

Operating voltage:	5 VDC
Dimensions (HxWxD):	127 x 120 x 95 mm

Smoke Sensor for ASD 535

[VdS] CE

SSD 535-3   Alarm Sensitivity range   **11-2000010-01-01**
0,02% – 10% /m

The smoke sensor SSD 535 has to be ordered separately for the ASD 535.
Pre-signals can be set between 10 and 90% of the alarm threshold.
- Sensitivity range alarm: 0.02 %/m – 10 %/m
- Sensitivity range pre-signals: 0.002 %/m – 9 %/m

Operating voltage:	5 VDC
Dimensions (HxWxD):	127 x 120 x 95 mm

Accessories		
Fastener plate to cover a smoke sensor chamber	ASD 535 Verschl	11-2300009-01-01

Smoke Sensing Device high Sens

[VdS] CE

SSD 535-3 CP   **11-2000013-01-01**

The smoke sensor SSD 535 has to be ordered separately for the ASD 535.
Pre-signals can be set between 10 and 90% of the alarm threshold.
- Sensitivity range alarm: 0.02 %/m – 10 %/m
- Sensitivity range pre-signals: 0.002 %/m – 9 %/m
- All the electronic parts are coated.

Operating voltage:	5 VDC
Dimensions (HxWxD):	127 x 120 x 95 mm

5.3.   Expansion modules

<table>
<tr><td>**Loop I/F module for Special Fire Detectors**</td><td>VdS CE</td></tr>
</table>
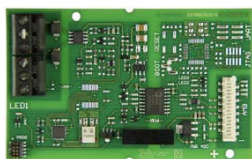
XLM 35   SecuriLine eXtended   **11-2200003-01-01**

With the installation of an XLM 35, special fire detectors like ASDs can be ideally connected via the addressable loop to the SecuriFire fire alarm systems. The normative alarm transmission to the superordinate FACP is then accomplished via the XLM 35.
The XLM 35 module allows also central configuration of special fire detectors with the Config Over Line function. The module comes with mounting brackets, screws and ribbon cable

Operating voltage:	5 VDC
Power consumption:	20 mA
Operating temperature:	-30°C to +60°C
Weight:	56 g
Dimensions (HxWxD):	58 x 97 x 17 mm

<table>
<tr><td>**Relay I/F module for ASD 535**</td><td>VdS CE</td></tr>
</table>

RIM 35   5 relays with changeover   **4000287-0101**
                    contacts
The RIM 35 brings five (5) additional relay outputs to your ASD 535. Expansion limit is two (2) RIM 35 / 10 relays. Each relay can be assigned to any ASD event by programming with the ASD Config software. The module comes with mounting brackets, screws and ribbon cable.

Operating voltage:	5 VDC
Power consumption:	15 mA
Operating temperature:	-30°C to +60°C
Weight:	85 g
Dimensions (HxWxD):	58 x 97 x 17 mm

Relay I/F module for Special Fire Detectors

VdS CE

RIM 36   5 relays with changeover contacts

11-2200005-01-02

The RIM 36 brings five (5) additional relay outputs to your Special Fire Detector (except ASD 535). Expansion limit is two (2) RIM 35 / 10 relays. Each relay can be assigned to any ASD event by programming with the ASD Config software. The module comes with mounting brackets, screws and ribbon cable.

Operating voltage:	5 VDC
Power consumption:	15 mA
Operating temperature:	-30°C to +60°C
Weight:	85 g
Dimensions (HxWxD):	58 x 97 x 17 mm

Memory card module for ASD 535

VdS CE
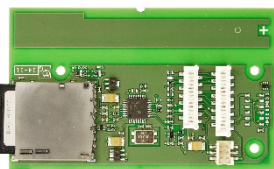
MCM 35

4000285-0101

The RIM 35 brings five (5) additional relay outputs to your ASD 535. Expansion limit is two (2) RIM 35 / 10 relays. Each relay can be assigned to any ASD event by programming with the ASD Config software. The module comes with mounting brackets, screws and ribbon cable.

Operating voltage:	5 VDC
Power consumption:	25 mA
Operating temperature:	-30°C to +60°C
Weight:	43 g
Dimensions (HxWxD):	58 x 99 x 17 mm

Serial I/F Module networking of Special Fire Detectors

VdS CE

SIM 35

11-2200000-01-02

For the RS 485 networking of up to 250 Special Fire Detectors like ASD 535 or ASD 532 .
Using the "ASD Config" configuration software, all ASDs in the network can be visualised and configured from a PC. The module comes with mounting brackets, screws and ribbon cables.

Operating voltage:	5 VDC
Power consumption:	20 mA
Operating temperature:	-30°C to +60°C
Weight:	56 g
Dimensions (HxWxD):	58 x 95 x 17 mm

Aspirating Systems

CE

SMM 535

11-2200001-01-01

This interface connects the RS485 (over SIM 35) networked ASDs to a USB port of a PC. It is powered by the USB port.

Operating voltage:	USB powered / 5 VDC
Operating temperature:	-30°C to +60°C
Weight:	165 g
Dimensions (HxWxD):	82 x 89 x 55 mm
Material:	PC
Color:	light grey (RAL 7035)

Universal module support for Special Fire Detectors

UMS 35

4301252-0101

Universal module support for the attachment of BX-OI3, SCI 82 and others.

Weight:	60 g
Dimensions (HxWxD):	130 x 11 x 94 mm

5.4. Demo and Test Equipment

<table>
<tr><td colspan="3" style="background:green;color:white">**Democase for ASD 535**</td></tr>
</table>

| **ASD 535 DCU** | | **249704** |

ASD 535 Democase unit for training and sales presentations.
Containing one ASD 535-4, alarm and fault simulation equipment, buzzer for alarm indication, USB cable for PC connection, power cable (swiss standard & international adapter type F)

Mains voltage:	230VAC
Power consumption:	<500mA
Operating temperature:	-30°C to +60°C
Weight of basic version:	14 kg
Dimensions (HxWxD):	580 x 430 x 230 mm

<table>
<tr><td colspan="3" style="background:green;color:white">**Democase for ASD 531/532**</td></tr>
</table>

| **ASD 531/532 DCU** | | **249702** |

ASD 531/532 Democase unit for training and sales presentations.
Containing one ASD 531 and one ASD 532. For alarm and fault simulation. Equipped with buzzer for alarm indication, Ethernet cable for PC connection of ASD 532. Power cable (swiss standard & international adapter type F)

Mains voltage:	230VAC
Power consumption:	<500mA
Operating temperature:	-20°C to +70°C
Weight of basic version:	15 kg
Dimensions (HxWxD):	500 x 354 x 365 mm

5.5. Spare Parts

ASD Spare Parts			
Main boards			
	Main board for ASD 535-1 and -3 Repair exchange only	AMB 35-1	11-200016-01-01
	Main board for ASD 535-2 and -4 Repair exchange only	AMB 35-2	11-2200017-01-01
	Main board for ASD 535-3 HD coated Repair exchange only	AMB 35-1 CP	11-2200021-01-01
	Main board for ASD 535-4 HD coated Repair exchange only	AMB 35-2 CP	11-2200022-01-01
	Main board for ASD 533-1	AMB 33-1	11-2200004-01-01
	Main board for ASD 531 Repair exchange only	AMB 31	11-2200012-01-03
	Main board for ASD 532 Repair exchange only	AMB 32	11-2200013-01-04
Basic control board			
	Basic control board for standard display of ASD 535-1 and -2 Repair exchange only	BCB 35	4301220-0101
	Basic control board for advanced display of ASD 535-3 and -4 Repair exchange only	ACB 35	4301221-0101
	Basic control board for advanced display ASD 535-3 and -4 HD version, coated Repair exchange only	ACB 35 CP	11-2200020-01-01
Air flow			
	Air flow sensor for ASD 535 Repair exchange only	AFS 35	4000300
	Replacement O-RING for AFS 35 delivery unit: 50 pcs	O-RING	11-2300036-01-01
	Air flow sensor for ASD 531 and ASD 532 Repair exchange only	AFS 32	11-2200007-01-01
Aspirating fan			
	Aspirating fan unit for ASD 535	AFU 35	4000299
	Aspirating fan unit for ASD 531 and ASD 532	AFU 32	11-2200008-01-01

ASD Spare Parts

Various spare parts

	SD-Card Industrial 2GB	SD-Industrial	11-4000007-01-01
	Button battery	BATT 3V CR2032	11-4000010-01-01
	Rotary Snap Lock for ASD 531/532/535 delivery unit: 4 pcs	RSL 35	4301315-0101
	Insect protection screen for ASD 531/532/535 delivery unit: 2 pcs	IPS 35	11-2300012-01-01
	M20 Cable Screw Union delivery unit: 10 pcs	M20 VE10	11-4000003-01-02
	M25 Cable Screw Union delivery unit: 10 pcs	M25 VE10	11-4000004-01-02

6. Dongle license and ASD PipeFlow

Basic license: **Limited access** for ASD Config software.
Available with or without networking* visualization.
Only read functions and the following write functions are possible:
- Change the current program (e.g. X01-X03, A11,B11 etc.)
- No change of parameters in the X01-X03 programs.
- Project texts
- FW-download
- RTC clock adjustment
- Change the tool language

Programming license: **Full access** to all available ASD Config software functions.
Only available after Securiton training.

Networking license: **Networking** Up to 250 aspirating smoke detectors (ASD 532 and / or ASD 535) can be networked between each other, in order to configure and visualize devices from one central location. The networking takes place via RS 485 with SIM 35 and SMM 535 or Ethernet. A combination of both transmission media is possible. The networking can be added to the Basis license and Programming licenses

Dongle order form available on the Securiton Homepage:

http://www.securiton.com

ASD PipeFlow		
Planning and calculation software for planning symmetric and asymmetric sampling pipe topologies. (Subject to licence) Requirements: Windows XP / 7 / 8.1; 1 GB RAM; Hard disc space 50 MB	ASD PipeFlow	VE100390

ASD Dongle license		
ASD Config Basic License	LIC ASD	VE100391
ASD Config Programming full access (only in combination with Basic License ASD available)	LIC ASD Prog	VE100392
ASD Config Networking to configure and visualize	LIC ASD Net	VE100393

Securiton Dongles		
Dongle for Securiton Applications (without license)	ULM-DP	VE100450
Dongle for Securiton Applications (without license) Pack of 5 Dongles	ULM-DP 5	VE100451
Dongle for Securiton Applications (without license) Pack of 10 Dongles	ULM-DP 10	VE100452

6.1. ASD Networking and Visualization

6.2. FidesNet

FidesNet makes it possible to connect multiple SecuriSmoke aspirating smoke detectors in a network while also enabling decentralised access via one or more FidesControl RCU 700 units. The performance scope includes RS-485 networking plus the visualisation and operation of all connected ASDs on the FidesControl RCUs linked in the network. Various other functions can be implemented in addition to visualization and operation. The FidesNet networking solution offers the possibility of connecting the special fi re detectors on the field level to superordinate systems via the FidesPort NCU 900.
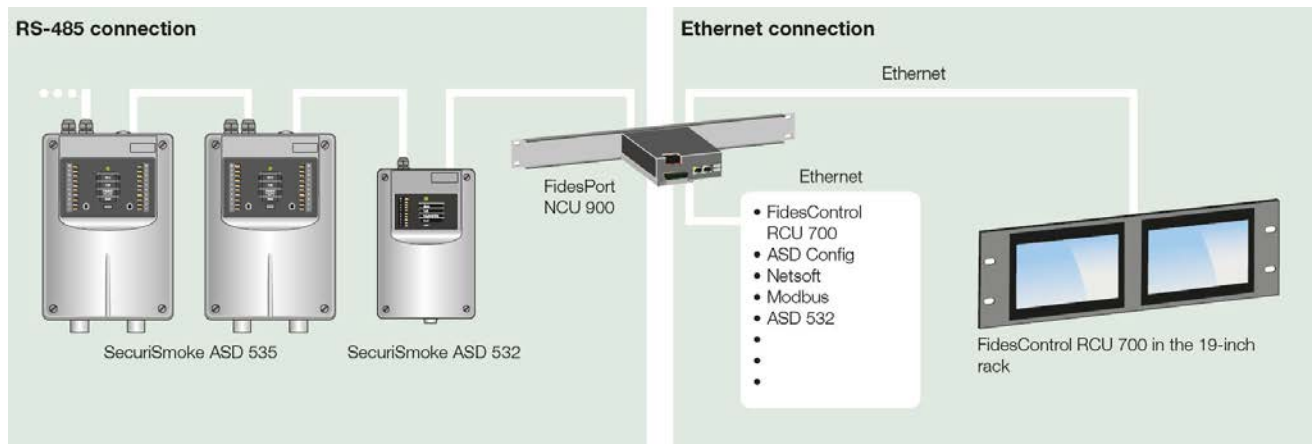
FidesNet		
Hardware		
Remote Control Unit	RCU 700	11-5000004-01-01
Network Communication Unit	NCU 900	11-5000003-01-01
RCU 700 Mounting frame 19-1	RMF 19-1	11-5000006-01-01
RCU 700 Mounting frame 19-2	RMF 19-2	11-5000006-02-01

6.3. Netsoft

The NetSoft software tool visualises live data from the aspirating smoke detectors directly on the computer. From one central point, you have a complete overview of the entire ASD network.

The main benefits of NetSoft are:
- One tool for visualization, operation, configuration
- Clearly arranged graphic of the whole installation
- Color status display for simple interpretation
- Event monitoring, remote control and event logging
- Configuration options for technicians

Please contact your local sales representative if you wish more information about how to proceed if you have a project where NetSoft is used.

SecuriFire Netsoft		
Netsoft for 0 - 10 ASD's	NetSoft 10	VE100471
Netsoft for 11 – 30 ASD's	NetSoft 30	VE100472
Netsoft for 31 – 50 ASD's	NetSoft 50	VE100473
Netsoft for 51 – 120 ASD's	NetSoft 120	VE100474
Netsoft for 121 - plus	NetSoft max	VE100475

7. Tubes and Fittings for Sampling Pipe

The materials for the sampling pipes are part of the VdS-Approval. For this reason, only materials approved and listed by Securiton may be used to build the system.
The pipe material is available in various plastics and metals. Most of the individual plastic pipe parts are glued.
The flexible pipe material for equipment and object monitoring is stretchable.
The metal pipes are connected by press fitting, the rigid plastic pipes can be deformed by heating.
The necessary tools such as pliers or pipe cutters can be purchased from specialist dealers.

7.1. ABS Tubes and Fittings

ABS tubes and fittings with outer diameter of 25 mm. Basic color is red, other colours on request.
The most important mechanical properties of ABS are impact resistance and toughness.
Temperature range for applications: -30°C to +60°C

ABS tubes and fittings		
Tube and fittings		
Sampling tube d=25mm, ABS red 3m	TU 25 ABSRED	11-2300049-01-01
Bend 90° d=25mm, ABS red delivery unit: 10 pieces	BE 25 ABSRED	11-2300050-01-01
Angle 90° d=25mm, ABS red delivery unit: 10 pieces	AN 25-90 ABSRED	11-2300057-01-01
Angle 45° d=25mm, ABS red delivery unit: 10 pieces	AN 25-45 ABSRED	11-2300052-01-01
T-piece d=25mm, ABS red delivery unit: 10 pieces	TP 25 ABSRED	11-2300053-01-01
Socket d=25mm, ABS red delivery unit: 10 pieces	SO 25 ABSRED	11-2300051-01-01
Screw-junction piece d=25mm, ABS red delivery unit: 10 pieces	SJ 25 ABSRED	11-2300055-01-01
End cap d=25mm, ABS red delivery unit: 10 pieces	EC 25 ABSRED	11-2300054-01-01
Pipe clamp d=25mm, ABS red delivery unit: 20 pieces	PC 25 ABSRED	11-2300056-01-01

Compressed-air connection	
CC 25 ABS	**50-0500419-01-01**

Compressed-air connection for tube TU 25 PVC for cleaning the aspirating tube.

Material:	ABS
Color:	grey

Ventilation duct flange
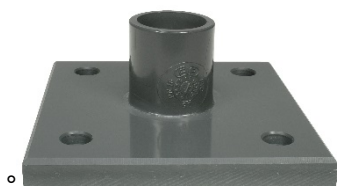
DF 25 ABS   50-0500186-01-01

Flange for tube TU 25 ABS for the monitoring of ventilation ducts. Per duct 1 or 2 pcs for aspirating stub and 1 or 2 pcs for the air recirculation, depending the width of the duct.

Material:	ABS
Color:	grey

Assembly hint:
Please consider the planning hints mentioned in the technical documentation.

Reduction – 25mm - ¾"

RE ¾-25 ABS   50-0500495-01-01

Reduction for 25mm tube to be connected to ¾" tube (TU 25 ABS).

Dimension (Ø):	¾'' / 25mm
Material:	ABS
Color:	grey

7.2. Flex Pipe Materials

Flexible tube

FT 21 PA

11-2300074-01-01

Flexible tube for sampling stub flex and equipment monitoring.
- Length 50m

Dimensions (outer Ø):	21,2 mm
Material:	PA
Color:	black

Self sealing coupling M20

SC 20ST PA

11-2300085-01-01

Self sealing coupling straight to connect flexible tube (FT 21 PA) with a tube TU 25 XXX.

delivery unit: 10 pieces

Dimensions (outer Ø):	M20 / 21,2 mm
Material:	PA
Color:	black

Self sealing coupling M20

SC 20BE PA

11-2300084-01-01

Same as SC 20 ST PA but bent
delivery unit: 10 pieces

Dimensions (outer Ø):	M20 / 21,2 mm
Material:	PA
Color:	black

Adapter M20

AD 20 ABS

50-0500449-01-01

Ring nut to use together with SC 20XX PA. The rings have to be glued into ABS sockets, T-pieces with diameter 25mm.
delivery unit: 10 pieces

Dimensions:	M20
Material:	ABS
Color:	black

7.3.   Concrete Inserts

FT 32C   **11-2300035-01-01**

Tube for concrete insertion.
delivery unit: roll of 50m

Dimensions (outer Ø):	32 mm
Material:	PE (KRF 32 M)
Color:	orange

Sampling rosette
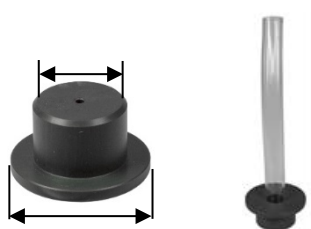
SP 30 PVC   **11-2300043-01-01**

To be used together with sampling points SP 32T and SP 32C for sampling holes on plastering. Hose is included.

Material:	PVC

Concrete sampling points

Connection for tube FT 32C

Sampling point T-piece, Ø 32 mm, set, for concrete insert	SP 32C T	235008
Sampling point L-piece, Ø 32 mm, set, for concrete insert	SP 32C L	235016

7.4. Cooper Tube Materials

Copper is used in high temperature applications typically above 60°C, often in combination with our LK 35 air cooler. The temperature is reduced by the LK35 to a temperature acceptable for the ASD.   The mechanical stress on the intake tubes is negligible due to the ASD application.

Cooper Material		
Fittings		
Tube, Ø 22 mm, length 5 m, copper delivery unit: 5m	TU 22 Cu	0.101187
Bend 90°, Ø 22 mm, copper	BE 22 Cu	50-0500484-01-01
T-piece, Ø 22 mm, copper	TP 22 Cu	50-0500487-01-01
Socket, Ø 22 mm, copper	SO 22 Cu	50-0500486-01-01
Adapter, Ø 22 mm - 3/4", copper	AD 22-25 Cu	50-0500488-01-01
End-cap, Ø 22 mm, copper	EC 22 Cu	50-0500485-01-01

7.5. Stainless Steel Tube Materials

Stainless steel is typically used in the food industry, where the use of stainless steel is often required for reasons of hygiene. Often specific alloys are also required. Can also be used in high temperature applications.

Stainless Steel Material		
Fittings		
Tube, Ø 22 mm, length 6 m, stainless steel	TU 22 StSteel	0.101134
Bend 90°, Ø 22 mm, stainless steel	BE 22 StSteel	50-0500489-01-01
T-piece, Ø 22 mm, stainless steel	TP 22 StSteel	50-0500492-01-01
Socket, Ø 22 mm, stainless steel	SO 22 StSteel	50-0500491-01-01
Adapter, Ø 22 mm - 3/4", stainless steel	AD 22-25 StSteel	50-0500493-01-01
End-cap, Ø 22 mm, stainless steel	EC 22 StSteel	50-0500490-01-01

Adapter-socket	
AD 25-Inch ABS	**3220379**
Adapter-socket for the junction of tubes TU 25 ABS and TU 22 StSteel. To use together with adapter AD 22-25 StSteel.	
Dimensions (Ø):	25 mm – ¾"
Material:	Stainless steel

7.6.   Sampling Points

CLIP 2.0 PA	Hole diameter: 2.0 mm	**50-0500463-01-01**
CLIP 2.5 PA	Hole diameter: 2.5 mm	**50-0500464-01-01**
CLIP 3.0 PA	Hole diameter: 3.0 mm	**50-0500465-01-01**
CLIP 3.5 PA	Hole diameter: 3.5 mm	**50-0500466-01-01**
CLIP 4.0 PA	Hole diameter: 4.0 mm	**50-0500467-01-01**
CLIP 4.5 PA	Hole diameter: 4.5 mm	**50-0500468-01-01**
CLIP 5.0 PA	Hole diameter: 5.0 mm	**50-0500469-01-01**
CLIP 5.5 PA	Hole diameter: 5.5 mm	**50-0500470-01-01**
CLIP 6.0 PA	Hole diameter: 6.0 mm	**50-0500471-01-01**
CLIP 6.5 PA	Hole diameter: 6.5 mm	**50-0500472-01-01**
CLIP 7.0 PA	Hole diameter: 7.0 mm	**50-0500473-01-01**

Sampling hole on aspirating pipe (clip).
Available with different diameter according to the project data.
Only for PVC and ABS pipes with 25 mm diameter.
delivery unit: 10 pieces

Maintenance clip

Clip-REV PA	**50-0500474-01-01**

Clip without hole for revision purpose.
delivery unit: 10 pieces

Dimensions (Ø):	25 mm
Material:	PA

Sampling-funnel

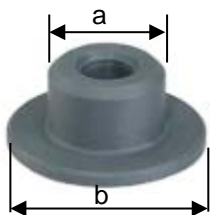|		
SF ABS	Hole diameter: 5.0 mm	**50-0500421-01-01**

Sampling-funnel for tubes TU 25XXX. For sampling points exposed to high air current like monitoring of server racks or air conditioners.
-    For pipes with a max. Ø of 25mm

Material:	ABS

Tubes and Fittings for Sampling Pipe

Rosette for sampling tube stiff

SP 36 ABS

50-0500450-01-01

For tubes TU 25 ABS to create the sampling point type "sampling tube stiff with rosette".
Has to be glued into the tubes TU 25 ABS.
-   Various outer Ø (b) on demand available.
delivery unit: 10 pieces

Dimensions (Ø):	a:	21.5 mm
	b:	35 mm
Material:		ABS

Sampling point for ceiling duct

SP M20 ABS

50-0500081-01-01

Sampling point for ceiling ducts to connect flex sampling pipe (FT 21 PA.). To connect the flex sampling pipe FT 21 PA. Inclusive self sealing coupling SC 20ST PA.
-   Installation depth: 35 mm

| Dimensions (Ø): | M20 / 36 mm |
| Material: | ABS |

Sampling point for ceiling duct (Set)

SP M20 ABS-Set

50-0500480-01-01

Sampling point for ceiling ducts. Complete set incl. T-Piece TP 25XXX, flex sampling pipe (FT 21 PA) and sampling point (SP M20 XXX).
-   Length sampling stub: 1.5 m

| Material: | ABS |

Sampling point with heating

HEAT 3.0 ABS	red	50-0500451-02-01
HEAT 3.5 ABS	blue	50-0500452-02-01
HEAT 4.0 ABS	green	50-0500453-02-01
HEAT 4.5 ABS	black	50-0500454-02-01
HEAT 5.0 ABS	brown	50-0500455-02-01

To install the aspirating pipe in deep-freeze rooms to prevent the freezing of the aspirating holes. HEAT X.X is the relevant diameter for ASD PipeFlow-calculations (3.0/3.5/4.0/4.5/5.0mm)

Dimensions (Ø):	25 mm

Hole Diameter	
5,7 mm	HEAT 3.0 ABS
6,1 mm	HEAT 3.5 ABS
6,3 mm	HEAT 4.0 ABS
6,7 mm	HEAT 4.5 ABS
7,1 mm	HEAT 5.0 ABS

Heat Resistor

Heat Resistor	11-2300079-01-01

Replacement for the sampling point with heating HEAT X.X ABS.
- Resistor: 220 Ω

Cable connection fitting

CCF 25 ABS	50-0500456-01-01

Cable connection fitting set for T-junctions of the tubes in deep-freeze rooms.

Dimensions (Ø):	25 mm

Silicon litz wire

SLW 0.5 wt	white	50-0500456-01-01
SLW 0.5 bk	black	

Silicon litz wire 0.5mm² to connect the heating resistors in the heating nozzles HEAT X.X ABS.
delivery unit: 100 m

VdS

WCU 535

11-2300046-01-01

For the introduction of the supply of sampling points with heating into the aspirating tube, with internal clamps.
For more details, please see the guidelines for deep freeze-warehouses.

- Pipe connection Ø 25 mm

Weight:	317 g
Dimensions (HxWxD):	150 × 107 × 85 mm
Material:	PC
Color:	light grey (RAL 7035)

Accessories		
Wiring Connection Unit 25, WCU 535 PC	WCU 535 PC	11-2300046-01-01

8. Clamps, Glue and Cleaner

Mounting Material		

Clamp		
Pipe clamp, Ø 25 mm, PVC delivery unit : 100 pcs	PC 25 PVC	11-2300083-01-01
Pipe clamp d=25mm, ABS red delivery unit : 20 pcs	PC 25 ABSRED	11-2300056-01-01
Grounding Clamp ASD	GC 25 EX	50-0500215-02-01

ABS glue, 250ml		

Glue 250 ABS – Attention: Danger   **11-2300077-01-01**

Regulation (EC) No. 1272/2008

Glue for ABS material.
Hazard statements:

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Dangerous goods may cause additional costs on airfreight.

Cleaner for PVC and ABS, 1000ml		

Cleaner 1000 – Attention: Danger   **11-2300067-01-01**

Regulation (EC) No. 1272/2008

For cleaning and degreasing piping, sleeves and fittings
made of (rigid) PVC, PVC-C and ABS.

**Not suitable for the dilution of PVC, PVC-C and ABS
cement.Hazard statements:**

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Dangerous goods may cause additional costs on airfreight.

9. Accessories

Detector Box	VdS	CE

REK 511   **199443**

For the localization of a fire in a separate room, when a single ASD is monitoring several rooms. To use together with the SSD 515-Xs smoke detector. Has to be installed in every stub, which leads to a single room from the main tube.

Operating voltage:	18 to 28 VDC
Power consumption:	30 mA
Protection class:	IP53
Operating temperature:	-0°C to +50°C
Weight of basic version:	580 g
Dimensions (HxWxD):	186 x 122 x 85 mm
Material:	ABS
Color:	light grey (RAL 7035)

Scattered light smoke detector for REK 511	VdS	CE

| **SSD 515-1S** | sensitivity 1.2%/m | **5000604-0101** |
| **SSD 515-3S** | sensitivity 0.3%/m | **5000604-0103** |

The SSD 515-xS (Scattered Light Smoke Detector) is the smoke sensor for the accessory device REK 511 (full addressing) for the Aspirating Smoke Detector of the ASD and RAS product family. The SSD 515-xS operates according to the scattered light principle and is designed so that it optimally meets the specific requirements of smoke detection in association with an Aspirating Smoke Detector. The detector has alarm threshold tracking and is additionally available with various sensitivities. By choosing the appropriate detector sensitivity, application-specific detection properties of the Aspirating Smoke Detector are possible.

Mains voltage / Frequency:	18 to 28 VDC
Power consumption:	29 mA
Operating temperature:	-20°C to +60°C
Weight of basic version:	74 g
Dimensions (ØxH):	80 x 56 mm
Material:	PC

Dust filter unit

DFU 911   **11-2300030-01-02**

DFU 911S   with protection flap   **11-2300103-01-01**

The DFU 911 dust filter unit can be installed in the sampling pipe tube network for use with an ASD aspirating smoke detector in applications subject to dust or dirt. This significantly extends the service life of the smoke sensors, air flow sensors and fans used in the ASD and results in enhanced resistance to false alarms.
The DFU 911S version has an integrated protection flap to avoid a filter is used without cartridge and to protect the ASD during cartridge exchange .

Operating temperature:	0°C to +60°C
Weight of basic version:	490 g
Dimensions (HxWxD):	210 x 111 x 137 mm
Material:	ABS blend, UL 94-V0

Accessories		
Replacement cartridge for DFU 911 and DFU911S	RFC 911	11-2300031-01-01
Replacement cartridge for DFU 911 and DFU911S delivery unit: 20 pcs	RFC 911 VE20	11-2300031-02-01

Assembly hint:
Not suitable for deep freeze, outdoor and areas with high humidity.

Filter box small

FBS 25 PC   **50-0500143-01-02**

Filter box small including filter-mat. Inserted into the sampling pipe before ASD.
-    Pipe connection Ø:25 mm

Operating temperature:	-30°C to +60°C
Dimensions (HxWxD):	80 x 82 x 85 mm
Material:	PC
Color:	light grey (RAL 7035)

Accessories		
Filter mat small for filter box small delivery unit: 5 pcs	FBS 25 EFM	50-0500112-02-01

Assembly hint:
Special filter for deep freeze application.

Accessories

Filter Box Spare parts

Filter mat

	Filter mat large for filter box large FBL 25 PC delivery unit: 5 pcs.	FBL 25 EFM	50-0500410-02-01
	Filter mat for filter box extra large FBX 25 PC	Filter-Mat X	50-0500530-01-01
	Holder for Filter-Mat X	Holder Filter-Mat X	50-0500185-01-01
	Replacement cartridge for DFU 535L	DFU 535L RC	11-2300069-01-01
	Replacement cartridge for DFU 535XL	DFU 535XL RC	11-2300070-01-01

Magnetic filter system   VdS CE

MFS 25   **11-2300104-01-01**

To supplement the dust filter unit with the range of metal-containing dusts.
- Extends the service life of the smoke sensors used in the aspirating smoke detector
- Prevents false alarms caused by dust containing metal
- Includes two 5/4-inch reductions to 40 mm and two reductions
- 40 mm by 25 mm (PVC)

Operating temperature:	-30°C to +60°C
Dimensions (HxWxD):	315 x 125 x 100 mm
Material:	PC
Color:	light grey (RAL 7016)

Dirt trap box

VdS

DTB 25 PC

50-0500198-01-01

Dirt trap box
To be used in very dusty rooms. Inserted into the sampling pipe before dust filter of any type and ASD.
- Pipe connection Ø:25 mm

Operating temperature:	0°C to +60°C
Dimensions (HxWxD):	160 x 250 x 90 mm
Material:	PC
Color:	light grey (RAL 7035)

Water retaining box

VdS

WRB 25 ABS

50-0500057-01-02

Water retaining box standard
Used in rooms with high humidity. Inserted into the sampling pipe before DTB 25 PC (when used), any types of dust filters (when used) and ASD.
- Pipe connection Ø:25 mm

Operating temperature:	0°C to +60°C
Dimensions (HxWxD):	160 x 250 x 90 mm
Material:	PC
Color:	light grey (RAL 7035)

Air cooler and water separator

VdS
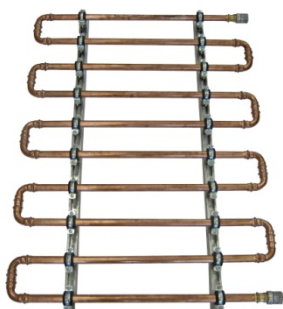
LK 35 – ABS

50-0500123-01-01

Is used as an air cooler when the sampling pipe is in a room >60°C. Can also be used as a water separator in rooms with high amount of air humidity and / or condensing water because of temperature differences. For more details see the technical documentation.

Operating temperature:	0°C to +60 °C
Weight of basic version:	8000 g
Dimensions (HxWxD):	1000 x 730 x 80mm
Material:	Copper pipe d=22x1 mm

Accessories

ADB 500	1 sampling pipe	**50-0500571-01-01**
ADB 1000	1 sampling pipe	**50-0500520-01-01**
ADB 2000	2 sampling pipes	**50-0500523-01-01**

ADB 500

ADB 1000/2000

The automatic blow-out devices are used in areas which are polluted with a high amount of dust- and dirt particles. With the blow-out device, 1 sampling pipe is automatically blown out and cleaned, to prevent fault messages caused by clogged aspiration points and also to avoid false alarms. At the same time, the life-time of the „optical scattered-light-detector" located in the aspiration system is substantially increased.

- 4 bar constant air pressure
- Pipe connection Ø:25 mm

ADB 500:
- 1channel version without certifications

ADB 1000:
- 1 channel version with VdS certification

ADB 2000:
- 2 channel version with VdS certification

Mains voltage / Frequency:	15 to 30 VDC
Power consumption:	55 mA
Protection class: ADB 500 ADB 1000/2000	 IP65 IP54
Operating temperature:	0°C to +50°C
Weight of basic version: ADB 500 ADB 1000/2000	 2800 g 8400 g
Dimensions (HxWxD): ADB 500 ADB 1000 ADB 2000	 235 x 205 x 90 mm 465 x 230 x 190 mm 580 x 280 x 240 mm

Main Indication & Control Panel

MV 25 ABS

11-2300080-01-01

Manual ball valve for revision and cleaning works with compressed air.
- Pipe connection Ø:25 mm

Operating temperature:	-40°C to +60°C
Dimensions (HxWxD):	100 × 145 × 90 mm
Material:	ABS
Color:	silver grey (RAL 7001)

Detonation flame arrester

DFA 25-3	category IIC	**50-0500139-01-01**
DFA 25-2	category IIB	**50-0500084-01-02**
DFA 25-1	category IIA	**50-0500085-01-02**

Detonation flame arrester for explosion zones. 2 pieces are needed per sampling tube.
For more details see the technical documentation.
- Pipe connection Ø:25 mm

Approvals

Ex Approval:	BAM 01 ATEX 0007 X

Noise reduction housing

Insulation housing

50-0500073-01-02

The noise insulation housing is used as an accessory part for the aspirating smoke detector ASD 535 in areas where a low level of noise is required. If the ventilator noise from the aspirating smoke detector is found to be disruptive and changing the location of the evaluation unit is not possible, the aspirating smoke detector can be integrated into a noise insulation housing.
- Sound pressure level: 20 dB (A)

Protection class:	IP54
Weight of basic version:	21,5 Kg
Dimensions (HxWxD):	500 x 500 x 300 mm
Material:	Steel sheet
Color:	light grey (RAL 7035)

Accessories

ASD Housing Ex

50-1200001-01-01

The additional housing is designed for the integration of an aspirating smoke detector ASD 535. The additional housing should be used as additional personal protection in explosive areas. If there is danger of operations related damage (e.g. lift truck operations) to the aspirating smoke detector, the additional housing can serve as a mechanical protection measure.

Protection class:	IP54
Weight of basic version:	21 Kg
Dimensions (HxWxD):	mm
Material:	Steel sheet

Assembly hint:
The ASD Ex Housing must be placed outside of the Ex-Zone.

10. Test and Maintenance Tools

Cleaning Kit SecuriRAS ASD

Cleaning Kit   **50-0500062-01-02**

Transport case for Cleaning Kit   **50-0500095-01-01**

The cleaning kit is generally used for service and maintenance work on aspirating smoke detectors. It is used for cleaning suction pipes that can be blown out and aspirated at high power. Adaptation to the respective suction pipes is possible with the supplied accessory materials.
Compressed air capacity:
- Air volume" approx. 1500 l/min
- Operating pressure approx 230 mbar

Mains voltage / Frequency:	230 VAC
Power consumption:	1100 W
Weight:	3400 g

Electronic Smoke Detector

$C \in$

Solo 365   **11-2300039-01-01**

For easy, efficient testing of aspirating smoke detectors
and regular smoke detectors.
- No residues in the smoke detector due to the
  application
- Good test reproducibility due to defined smoke
  quantity and density
- Easy replacement of smoke cartridges
- Easy replacement of battery and smoke generator
- Display of operating status and condition of battery,
  smoke cartridge and smoke generator
- Intermateable with UTP Test pole ➔UTP SOL
  Adapter

- Tester Kit containing: (1 piece of each)
- Smoke Cartridge Solo ES3
- Battery Pack Solo 370
- Charger
- Smoke Generator Solo 371
- Manual (en)

Protection class:	IP54
Weight of basicunit:	860 g
Dimensions (HxWxD):	500 x 500 x 300 mm
Material:	Steel sheet
Color:	light grey (RAL 7035)

Assembly hint:
The Solo 372 adapter for ASD and the Solo 611 storage bag must be ordered separately

Electronic Smoke Detector Accessories

Solo Accessories

	Adapter for ASD testing.	Solo 372	11-2300041-01-01
	Protective Carrying / Storage Bag for Solo 365	Solo 611	11-2300037-01-01
	Smoke Cartridge for Solo 365 delivery unit : 12 pcs	ES3 VE12	11-2300038-01-01
	Lithium Ion Battery Pack for Solo 365	Solo 370	11-2300042-01-01
	Smoke Generator for Solo 365	Solo 371	11-2300040-01-01
	Adapter UTP-Testpole to Testifire head	UTP SOL	3330256

11. Product Type Index

Product Type Index

SecuriHeat ADW 535

Product Catalogue 2020

Content

1. Introduction

Where conventional fire detectors reach their physical limits, the SecuriSens ADW 535 line-type heat detector comes into play. The intelligent line-type heat detector works perfectly, even under the most diffi cult conditions. Whether the fully automatic monitoring of large areas, resisting corrosive gases, extreme humidity and high temperatures, or differentiating between false alarms and real danger – the list of requirements for a state-ofthe- art line-type heat detector is both long and detailed.

Design and function
The integrated SecuriSens ADW 535 line-type heat detector combines a proven functional principle with the latest developments in sensor and processor technology. A sensing tube fi lled with normal air is installed in the area to be monitored. A fully electronic pressure sensor permanently records the pressure in the sensing tube. This is monitored constantly in the processing electronics and compared with the alarm criteria. Diverse setting options are offered directly on the device via EasyConfi g or using the comfortable ADW Confi g tool for perfect adaptation to existing environmental conditions. The Dynamic Heat Watch (DHW) technology ensures that a brief temperature increase caused by the ambient conditions does not result in a false alarm.

Applications
Thanks to the extremely tough sensing tube, the SecuriSens ADW 535 can be deployed in many applications where conventional fi re detectors do not work. With its long service life and maintenance-free design, the ADW 535 is also ideal in applications where detection properties must remain constant over the entire product service life.

Typical applications:
- Tunnels: road tunnels, metro and railway tunnels, utility and cable tunnels
- Underground garages, vehicle silos
- Food industry, industrial kitchens, large commercial bakeries
- Alcohol processing, distilleries
- Chemical industry, refi neries, oil tanks
- Waste incineration plants
- Outdoor applications: loading platforms (fl ying roofs), historical bridges, fuel warehouses, towers
- High-temperature applications such as: paint shops, steel plants, kilns, climate chambers, gas turbines, engine test benches
- And many other applications, e. g. underfl oor monitoring in rolling stock, marine applications
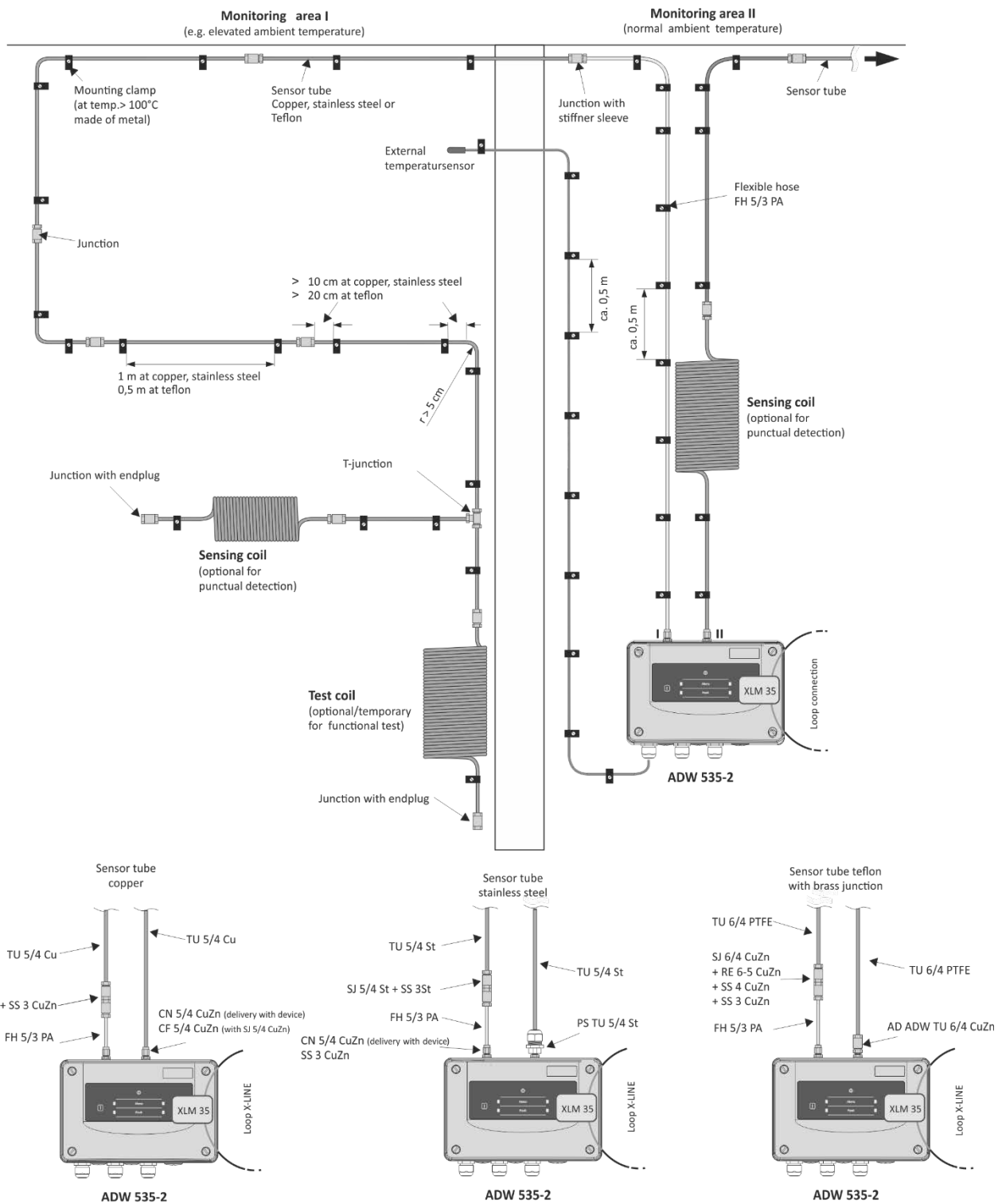
Sensing tubes
Depending on the application, various sensing tubes are used (all of which have VdS approval):
- Copper: standard applications, property surveillance
- Stainless steel: food industry and hightemperature applications
- PTFE (Tefl on): aggressive ambient conditions (e.g. chemical Industrie)

2. Overview of Line type heat detector ADW 535

The illustrated components are examples and can be combined within the scope of the technical possibilities.
The technical documentation, installation instructions and regional standards must be observed.

3. Line type heat detector

Line Type Heat detector			
ADW 535-1	one sensing tube	**11-1000000-01-01**
ADW 535-2	two sensing tube	**11-1000000-02-01**

ADW 535-1

ADW 535-2

The SecuriSens ADW 535 line-type heat detector combines a proven functional principle with the latest developments in sensor and processor technology.
A sensing tube filled with normal air is installed in the area to be monitored. A fully electronic pressure sensor permanently records the pressure in the sensing tube and compares it with the alarm criteria.
Commissioning and configuration is done either directly on the device or via the comfortable ADW Config software tool for a perfect adaptation to existing environmental conditions.
For planning the ADW HeatCalc software allows an optimized design of any installation.

- Sensing tube length with/without EN 54-22: max. 115 m/200 m

Operating voltage:	9 to 30 VDC
Protection class:	IP65
Operating temperature:	-30°C to +70°C
Operating temperature sensing tube*:	- 40 °C to +180 °C
Weight: 1 sensing tube	1,5 kg
2 sensing tubes	1,97 kg
Dimensions (HxWxD):	160.5 x 250.5 x 134 mm
Color:	light grey (RAL 280 70 05)
	charcoal (RAL 300 20 05)

Approvals

VdS-Approval:	G 214076

Note:
*: Lower or higher temperature ranges are also possible subject to consultation with the manufacturer

ADW 535-1HDx

ADW 535-2HDx

ADW 535-1HDx	One Sensing tube	**11-1000001-01-01**
ADW 535-2HDx	Two sensing tubes	**11-1000001-02-01**

The SecuriSens ADW 535 line-type heat detector combines a proven functional principle with the latest developments in sensor and processor technology.
A sensing tube filled with normal air is installed in the area to be monitored. A fully electronic pressure sensor permanently records the pressure in the sensing tube and compares it with the alarm criteria.
Commissioning and configuration is done either directly on the device or via the comfortable ADW Config software tool for a perfect adaptation to existing environmental conditions.
For planning the ADW HeatCalc software allows an optimized design of any installation.

The HDx versions of the control unit are for installation inside Ex zones 2 and 22 and very harsh ambient conditions.

Operating voltage:	9 to 30 VDC
Protection class:	IP66
Operating temperature:	-30°C to +70°C
Operating temperature sensing tube*:	- 40 °C to +180 °C
Weight: 1 sensing tube	3,05 kg
2 sensing tubes	3,42 kg
Dimensions (HxWxD):	160.5 x 250.5 x 134 mm
Color:	graphite black (RAL 9011) platinum grey (RAL 7036)

Approvals

VdS-Approval:	G 214076
ATEX-Approval:	II 3G Ex nA nC IIC T4 Gc II 3D Ex tc IIIC T135°C Dc

> **Note:**
> *: Lower or higher temperature ranges are also possible subject to consultation with the manufacturer .

ADW 535-1 ATEX

50-0500259-01-01

Line-type heat detector with one sensor for the use in
explosive atmosphere of the zone 1. (Category 2G)
according to directive 94/9/EG (ATEX 100a).
Approval according to EN 54-22, heat sensor response
class A1I, A2I, BI ... GI
- Max. monitoring area = 800 m²
- Max. sensor tube length per connection channel=115 m
  (Copper and stainless steel sensor tube)
- Max. sensor tube length per connection channel=105 m
  (Teflon sensor tube)
- One stub line per sensor tube possible
- Service PC interface (Ethernet)
- Surface-mounted housing
- II G 2 Ex d e IIC T6

Operating voltage:	9 to 30 VDC
Protection class:	IP65
Operating temperature:	-20°C to +40°C
Operating temperature sensing tube*:	- 40 °C to +800 °C
Weight:	27 kg
Dimensions (HxWxD):	679 x 325 x 190 mm
Color:	umbra grey (RAL 7022) pebble grey (RAL 7032)

Approvals

ATEX-Approval:	
Case:	PTB 99 ATEX 1057
Detonation guard:	IBExU 06 ATEX 2003 X

External Temperature Sensor

ART 535-10

11-1000002-10-01

For the temperature compensation the external
temperature sensor ART 535 is to be used and placed in
the monitored area. For temperature ranges and for EX
applications a special version is to be used. (ART 535-30
Ex 400°C)
- Cable length: 10m

Operating temperature:	-50°C to +200°C

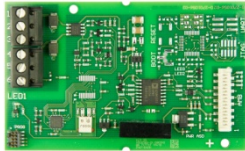## 3.1. Modules for Line type heat detectors

The ADW 535 has four slots for expansion modules.
All Modules for Line type heat detectors are listed in the VdS G 214076 certificate.

Loop I/F module for Special Fire Detectors	VdS CE

XLM 35

11-2200003-01-01

With the installation of an XLM 35, special fire detectors like ADWs can be ideally connected via the addressable loop to the SecuriFire fire alarm systems. The normative alarm transmission to the superordinate FACP is then accomplished via the XLM 35. The module comes with mounting brackets, screws and ribbon cable.
The XLM 35 module allows also central configuration of special fire detectors with the Config Over Line function

Operating Voltage:	from AMB 35
Power consumption:	20 mA
Weight:	62 g
Dimensions (HxWxD):	95 x 58 x 17 mm

Relay I/F module for Special Fire Detectors	VdS CE
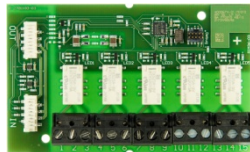
RIM 36

11-2200005-01-02

The RIM 36 brings five (5) additional relay outputs to your Special Fire Detector. Expansion limit is two (2) RIM 36 / 10 relays. Each relay can be assigned to any ADW event by programming with the ADW Config software. The module comes with mounting brackets, screws and ribbon cable.

Weight:	85 g
Dimensions (HxWxD):	95 x 58 x 17 mm

Serial I/F module networking of Special Fire Detectors	VdS CE

SIM 35

11-2200000-01-02

For the RS 485 networking of up to 250 Special Fire Detectors like ADW 535.
Using the "ADW Config" configuration software, all ADWs in the network can be visualised and configured from a PC. The module comes with mounting brackets, screws and ribbon cables.

Weight:	56 g
Dimensions (HxWxD):	95 x 58 x 17 mm

Serial master Module for networking of Special Fire Detectors

SMM 535

11-2200001-01-01

This interface connects the RS485 (over SIM 35) networked ADWs to a USB port of a PC. It is powered by the USB port.

Operating Voltage:	USB powered / 5 VDC
Operating temperature:	-30°C to +60°C
Weight:	165 g
Dimensions (HxWxD):	82 x 89 x 55 mm

3.2. Demo and Test Equipment

Democase for ADW 535

ADW 535 DCU

249998

Democase ADW 535 for training and sales presentations.

Weight:	9,95 kg
Dimensions (HxWxD):	500 x 200 x 360 mm

4. Dongle license and HeatCalc

Basic license: **Limited access** for ADW Config software.
Available with or without networking* visualization.
Only read functions and the following write functions are possible:
- Change the current program (e.g. X01-X03, A11,B11 etc.)
- No change of parameters in the X01-X03 programs.
- Project texts
- FW-download
- RTC clock adjustment
- Change the tool language

Programming license: **Full access** to all available ADW Config software functions.
Only available after Securiton training.

Networking **license:**   **Networking** Up to 250 ADW 535 can be networked between each other, in order to configure and visualize devices from one central location. The networking takes place via RS 485 with SIM 35 and SMM 535 or Ethernet. A combination of both transmission media is possible.
The networking can be added to the Basis license and Programming licenses

Dongle order form available on the Securiton Homepage:

http://www.securiton.com

ADW HeatCalc		
ADW calculation& planning tool, Configuration and test software. **Download from the Storebox / Partnerdata.**	ADW-HeatCalc	11-1300005-01-01

ADW Dongle (User Level, Limited access rights)		
ADW Config Basic License	LIC ADW	VE100418
ADW Config Programming full access (only in combination with Basic License ADW available)	LIC ADW Prog	VE100419
ADW Config Networking to configure and visualize	LIC ADW Net	VE100420

Dongle for Securiton Applications		
Dongle for Securiton Applications (without license)	ULM-DP	VE100450
Dongle for Securiton Applications (without license) Pack of 5 Dongles	ULM-DP 5	VE100451
Dongle for Securiton Applications (without license) Pack of 10 Dongles	ULM-DP 10	VE100452

5. Accessories

	Copper tube	Stainless steel tube	Teflon tube	Flexible polyamide hose
Application areas	Standard environments	High temperature environments	Standard and aggressive environments	For the flexible connection between ADW and copper/stainless steel tube
Properties	Temperature resistance ++ Chemical resistance – – Corrosion resistance +	Temperature resistance +++ Chemical resistance – Corrosion resistance ++	Temperature resistance ++ Chemical resistance +++ Corrosion resistance +++	Temperature resistance + Chemical resistance ++ Corrosion resistance ++
Application areas	standard industrial applications Car park halls Loading platforms Road tunnels railway tunnels underground railway tunnels	Fertiliser industry Rubber industry Plastics processing industry Food processing industry Textile industry cellulose industry	Standard industrial applications Bioengineering Chemical industry Semiconductor industry Laboratory Engineering Medical engineering Pharmaceutical industry	As supply line to the detction area or for the thermal decoupling
Diameter outside (mm)	5	5	6	5
Diameter inside (mm)	4	4	4	3
Tube length (depending on application)	10 to 115 m (200 m not acc. EN)	10 to 115 m (200 m not acc. EN)	10 to 105 m (150 m not acc. EN)	0 to 20 m
Max. distance between pipe clamps	0,8 m to 1,2 m	0,8 m to 1,2 m	0,5 m	0,5 m
Distance between pipe clamps and Screw-junction piece	≥ 10 cm each side	≥ 10 cm each side	≥ 20 cm each side	≥ 20 cm each side
Operating temperature	-40°C to +180°C	-40°C to +300°C (higher temperatures on demand)	-40°C to + 260°C (PVDF -40 to +150°C)	-40°C to +100°C
Applicable in heat classes	A1-G	A1-G	A1, A2 and C	A1-G
Material	Cu-DHP R250	Stainless steel (1.4571)	Polytetrafluorethylen (PTFE)	Polyamide PA 12
Screw junction piece	Brass	Stainless steel (1.4571)	PVDF or Brass	-
End plug	Brass	Stainless steel (1.4571)	PVDF or Brass	-
Stiffener sleeve	-	-	Brass when used with Brass-junctions	Brass or Stainless steel (1.4571)
Test coil	Cu-DHP R250	Stainless steel (1.4571)	-	-

Accessories

	Copper tube	Stainless steel tube	Teflon tube	Flexible polyamide hose
Pipe clamp	Polyamide (max. 85°C) Polypropylen (max. 100°C) or Brass	Polyamide (max. 85°C) Polypropylen (max. 100°C) or Stainless steel (1.4571)	Polyamide (max. 85°C) Polypropylen (max. 100°C) Brass or Stainless steel (1.4571)	Polyamide (max. 85°C) Polypropylen (max. 100°C)
Sensing tube connection ADW (standard delivery brass)	Brass	Brass (First part of tube Polyamide)	Brass; special adapter available AD TU 6/4	Brass
Necessary accessories				
Connection set	-	-	1	-
Screw-junction piece	– Same number as pipes – Per test coil +2 (If test coil connected at ADW +1)	– Same number as pipes – Per test coil +2 (If test coil connected at ADW +1)	- Same number as hoses -1	-1 per hose (If test coil connected at ADW +1)
End plug	1 per sensing tube	1 per sensing tube	1 per sensing tube	-
Stiffener sleeve	-	-	2 per tube part (only for brass junctions)	2 per hose part
Pipe clamps	Ca. 1 clamp per m depending on clamp distance (0.8-1.2m)	1,25 clamps per m depending on clamp distance (0.8-1.2m)	2 clamps per m	Ca. 1 clamp per m lepending on clamp distance (0.8-1.2m)

5.1. Copper

Standard sensing tube for applications with normal operating temperatures.
–40°C– +180°C ➔ (When used at 85°C and above, use metallic pipe clamps).

Copper 5/4mm		
Tubes		
Sensing tube cooper delivery unit: 3m	TU 5/4 Cu 3m	11-1300034-01-01
Sensing tube cooper delivery unit:50m	TU 5/4 Cu 50	11-1300009-01-01
Fittings brass		
Screw Junction straight for TU 5/4 Cu delivery unit: 10 pcs	SJ 5/4 CuZn	11-1300010-01-01
End plug for Junction straight for SJ 5/4 CuZn delivery unit: 5 pcs	EP 5/4 CuZn	11-1300011-01-01
T-Junction for TU 5/4 Cu	TJ 5/4 CuZn	11-1300012-01-01
Coils		
Sensing coil of TU 5/4 Cu length 5m	SC 5/4 Cu 5	11-1300013-01-01
Test coil of TU 5/4 Cu length 10m	TC 5/4 Cu 10	11-1300014-01-01

Accessories

5.1. Stainless steel

Sensor tube for applications in corrosive environments and in the food industry for hygienic reasons.
–40 – +300°C (when used at 85°C and above, use metal pipe clamps).

Stainless steel 5/4mm			
Tubes			
	Sensing tube stainless steel delivery unit: 3m	TU 5/4 St 3m	11-1300035-01-01
Fittings			
	Screw Junction straight for TU 5/4 St delivery unit: 10 pcs	SJ 5/4 St	11-1300016-01-01
	End plug for Junction straight for SJ 5/4 CuZn delivery unit: 5 pcs	EP 5/4 St	11-1300017-01-01
	T-Junction for TU 5/4 St	TJ 5/4 St	11-1300018-01-01
	Protection screw for the direct connection of sensing tube TU 5/4 St to the ADW 535 evaluation unit.	PS TU 5/4 St	50-0500254-01-01
Coils			
	Sensing coil of TU 5/4 St length 5m	SC 5/4 St 5	50-0500218-01-01
	Test coil of TU 5/4 St length 10m	TC 5/4 St 10	50-0500219-01-01

5.1. Teflon

Sensor tube for standard applications and for very corrosive and aggressive environments.
–40 – +200°C (when used at more than 85°C, metal pipe clamps and brass screw-junction pieces must be used; if more than 130 C the screw-junction pieces must be outside of the monitored area).
When using **Teflon sensing tubes**, only classes **A1I** to **BI** are possible according to EN 54-22.

Teflon 6/4mm		
Tubes		
Sensing tube teflon 6/4mm delivery unit: 100m	TU 6/4 PTFE 100	11-1300020-01-01
Sensing tube teflon 6/4mm delivery unit: 50m	TU 6/4 PTFE 50	11-1300019-01-01
Fittings		
Adapter ADW TU 6/4 PTFE, AD TU 6/4 CuZn	AD TU 6/4 CuZn	11-1300021-01-01
Screw junction straight PVDF for TU 6/4 PTFE	SJ 6/4 PVDF	11-1300022-01-01
Endplug for TU 6/4 PTFE, EP 6/4 PVDF	EP 6/4 PVDF	11-1300023-01-01
T-Junction for TU 6/4 PTFE, TJ 6/4 PVDF	TJ 6/4 PVDF	11-1300024-01-01
Reduction SJ6/4CuZn-FH5/3PA, RE 6-5 CuZn	RE 6-5 CuZn	11-1300026-01-01
Mounting sets		
Adapter-Set PA-Teflon (incl SJ 6/4 CuZn, SS4 CuZn, SS3 CuZn)	AD 5/6 CuZn-Set	50-0500526-01-01
T-Junction-Set Teflontube (incl. TJ 6/4 CuZn, SS4 CuZn)	TJ 6/4 CuZn-Set	50-0500244-01-01
Screw junction-Set Teflontube (incl SJ 6/4 CuZn, SS4 CuZn)	SJ 6/4 CuZn-Set	50-0500243-01-01
End plug-Set Teflontube (incl SJ 6/4 CuZn, EP 6/4 CuZn, SS4 CuZn)	TS 6/4 CuZn-Set	50-0500231-01-01
Coils		
Sensing-Coil 6/4PTFE with mounting clip Screw junction to connect the coil to the Teflon tube must be ordered separately	SC 6/4 PTFE 5m Set	30-4100029-01-01

Accessories

5.1. Polyamide

Polyamide 5/3mm			
Tubes			
	Flexible Hose Polyamid 5/3mm (Price per 25m) delivery unit: 25m	FH 5/3 PA 25	11-1300028-01-01
Fittings			
	Stiffener sleeve brass for FH 5/3 PA delivery unit: 10 pcs	SS 3 CuZn	11-1300029-01-01
	Stiffener sleeve for FH 5/3 PA delivery unit: 10 pcs	SS 3 St	11-1300031-01-01

5.2. Installation material

Installation			
Pipe clamp			
	Pipe clamp stainless steel delivery unit: 10 Pipe clamps and 10 brass stiffener	PC 5/6 St	11-1300033-01-01
	Pipe Clamp brass delivery unit: 10 Pipe clamps and 10 brass stiffener	PC 5/6 StG	50-0500213-04-01
	Pipe clamp black delivery unit: 100 pcs	PC 5/6 PA	11-1300032-01-01
Maintenance			
	ADW Sensing tube cleaning and maintenance set	ACMS 535	50-0500239-01-01

6. Accessories for Ex-Zones

SensTube Teflon 6/4mm Ex	⟨Ɛx⟩

TU 6/4 PTFE / Ex
50-0500140-03-01

Tube to create the sensor part for Ex applications. Without connection and termination parts.
- (price per 100 m)
- Explosion group: IIA

Dimensions (length):	100 m
Material:	teflon

Grounding Clamp	⟨Ɛx⟩

GC 5/6 Ex
50-0500215-03-01

Grounding Clamp with ATEX certification.
To ground the sensing tube in Ex-zone applications.

Material:	copper tin-plated

External Temperature Sensor for EX-zones	⟨Ɛx⟩

ART 535-30Ex 1
50-0500176-03-02

ART 535-30Ex 21
50-0500176-04-02

The ART 535 external temperature sensor is to be used in the following cases:
- Applications compliant with EN 54-22, Class CI to GI
- Always (for all response grades), as soon as the application temperature in the monitored area deviates more than 20°C from the temperature of the evaluation unit.
- Sensor diameter 6mm

Protection class:	IP65
Operating temperature:	-50°C to +400°C
Dimensions (length):	30 m
Material:	stainless steel

Approvals

Ex-Approval:
ART 535-30Ex 1:   Zone 1, 2 (II 2G Ex em T6)
ART 535-30Ex 21:
                  Zone 21, 22 (II 2D Ex mbD A21 IP65 80°C X

7. Spare Parts

Spare parts and repair			
Boards for repair exchange only			
	Main Board for ADW 535-1 and -2	LMB 35	11-1200001-01-02
	Extension Board for ADW 535-2	LEB 35	11-1200002-01-01
	Supervising Unit for ADW 535	LSU 35	11-1200003-01-01
Various spare parts			
	SD-card Industrial 2GB	SD-Industrial	11-4000007-01-01
	Lithium Battery (high temperatur range)	BR2032	11-4000008-01-01
	M20 Cable Screw Union delivery unit: 10 pcs	M20 VE10	11-4000003-01-02
	M25 Cable Screw Union delivery unit: 10 pcs	M25 VE10	11-4000004-01-02

8. Product Type Index

Product Type Index

SecuriHeat LIST

Product Catalogue 2020

Content

1. Introduction
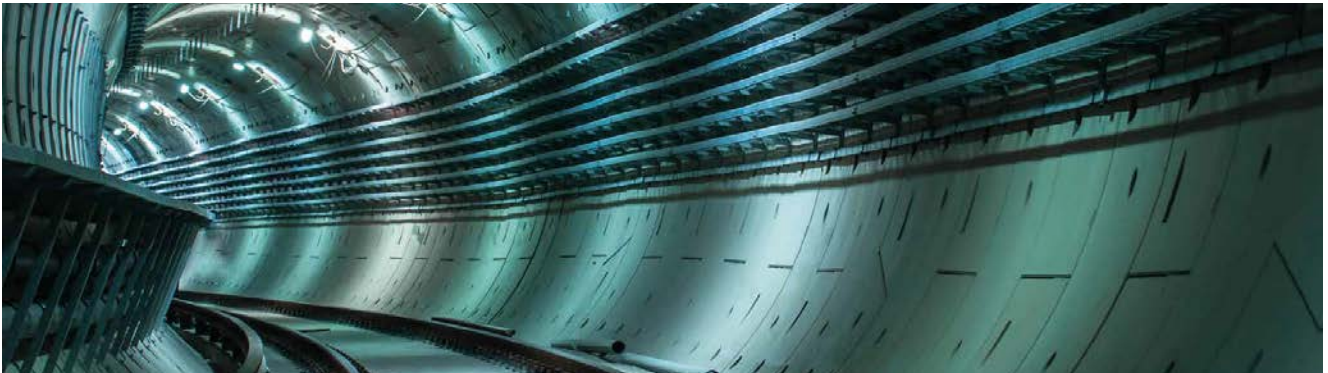
SecuriSens LIST heat detectors, where all other detectors reach their limits.
Dust, heat, smoke, exhaust fumes and other interference factors have a significant impact on detecting fires when using conventional fire detectors. However, it is exactly under such difficult conditions that the fire risk is so great and it is vital to ensure quick and reliable detection – such as in tunnels, industrial facilities, power plants and car parks.
With the SecuriSens LIST line-type heat detectors, Securiton provides systems that can enable the rapid localisation of a fire – even when used in harsh, aggressive environments.

Safety in tunnels – the SecuriSens LIST.
The SecuriSens LIST SEC 20 line-type heat detector is the ideal fire detector for use in tunnels. It consists of the SEC 20 sensor cable and the LISTcontroller.
The system offers reliable monitoring of sections of up to 3,200 metres in length, or up to 350 sensors. The sensor cable can be connected to the LISTcontroller (except in redundant operation it is required a second LISTcontroller). The detection and alarm thresholds can be configured for a maximum of 254 different alarm sections. Every ten seconds, the system measures the temperature on the sensors and compares this with the programmed threshold values.

Outstanding flexibility – because every object needs individual protection.
The spacing between sensors can be freely selected, and it is even possible to combine different sensor spacing distances. You can see where the sensors are located according to the markings on the outer sheathing of the sensor cable. Another highlight (and one that is absolutely unique on the market) is the problem-free branching of the cable harnesses. External individual sensors in metal housings are available for special applications and can be easily connected to the SecuriSens LIST system. Different sensor cable areas can be connected together with one signal cable.

Product
The descriptions and technical data included in this catalogue are up-to-date at the time of release. We reserve the right to make alterations to them, particularly where justified by technological advancements. The illustrated products may also differ visually from the products supplied as a result of continuous further development of products.
The layout of this catalogue is subject to copyright. The copying or reuse of text, illustrations and photos in any media (e.g. print, CD-ROM, Internet, etc.) contained within this catalogue - also in an abridged form - is only allowed with our explicit written permission. We assume no liability for typographic errors and obvious mistakes. Please quote the relevant item numbers when making enquiries or placing an order.
Delivery conditions are regulated in the "General Terms and Conditions of Securiton AG for Export Deliveries"

2. System Overview

Stub installation
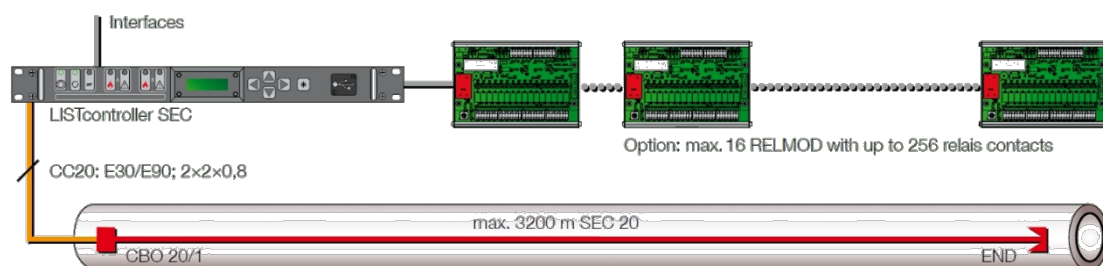
Loop back installation
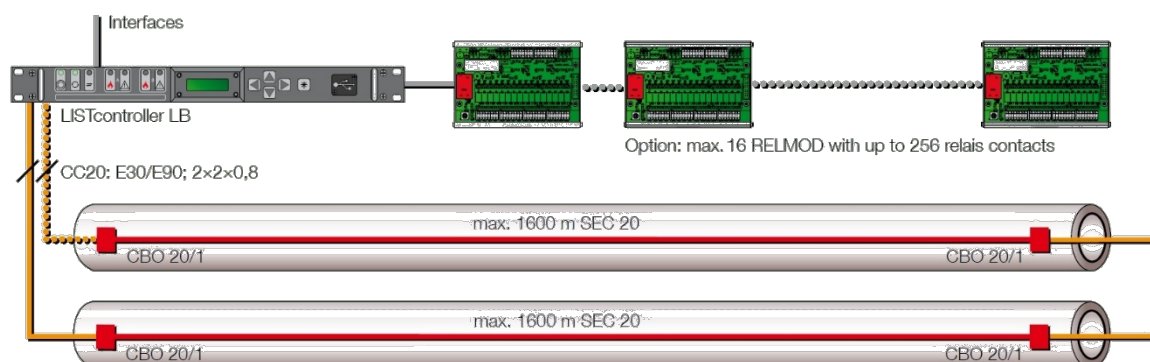
Redundant RDT installation
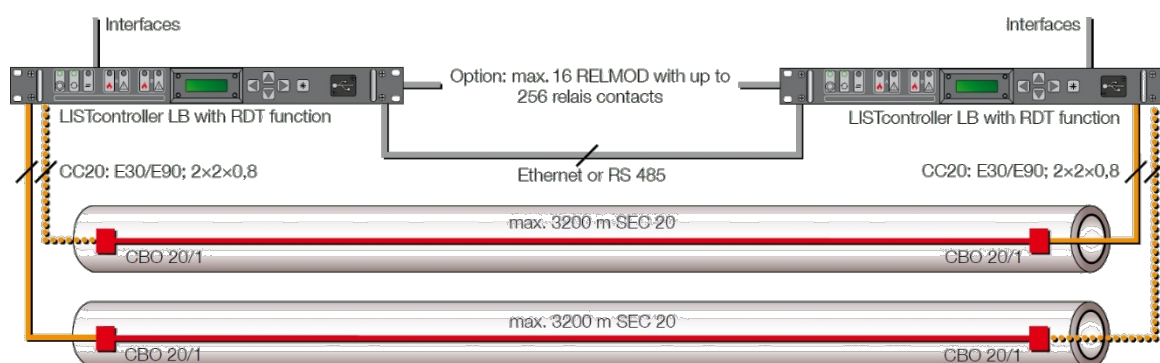
3. Processor Units

<table>
<tr><td>**Control and Evaluation Unit**</td><td>VdS   C E</td></tr>
</table>

Lcon SEC (Standard) **62-2000354-00-00**

Cable terminal unit with a sensor cable connection. The LIST controller is the central control unit and cable terminal processor for the SEC 20 sensor cable. With an ARM9™ embedded processor and two peripheral processors it provides the evaluation and signaling. Detection and alarm threshold values can be differently programmed for up to 254 alarm sections. Used in pairs and enhanced with RDT function, LIST controllers LB guarantee full cable and device redundancy.

Scope of delivery:
- 1x connecting cableVK24-S4-KL-03
- 1x connecting cableVKI/O-S4-KL-03
- 1x connecting cableVKSEC-S4-KL-03

Operating voltage:	48 VDC
Power consumption:	5 W
Operating temperature:	-5°C to +70°C
Weight:	2,6 kg
Dimensions (HxWxD):	482,6 x 43,6 x 313,5 mm
Material:	aluminium

Approvals

VdS-Approval:	G 213072

Processor Units

Control and Evaluation Unit

VdS CE

Lcon LB (with loop function **62-2000355-00-00**

Cable terminal unit with a sensor cable connection. The LIST controller is the central control unit and cable terminal processor for the SEC 20 sensor cable. With an ARM9™ embedded processor and two peripheral processors it provides the evaluation and signalling. Detection and alarm threshold values can be differently programmed for up to 254 alarm sections. Used in pairs and enhanced with RDT function, LIST controllers LB guarantee full cable and device redundancy.

Scope of delivery:
- 1x connecting cableVK24-S4-KL-03
- 1x connecting cableVKI/O-S4-KL-03
- 2x connecting cableVKSEC-S4-KL-03

Operating voltage:	48 VDC
Power consumption:	5 W
Operating temperature:	-5°C to +70°C
Weight:	2,6 kg
Dimensions (HxWxD):	482,6 x 43,6 x 315,5 mm
Material:	aluminium

Approvals

VdS-Approval:	G 213072

Functions for List controller

RDT-Function for LIST controller

	Redundancy control: This function must be ordered separately.	Lcon RDT	62-4000306-00-00

I/P-Interface und Protocol

	Modbus TCP Software function for LIST controller.	Lcon I/P Modbus	62-4000314-00-00
	IEC 60870-5-104 Software function for LIST controller.	Lcon I/P IEC	62-4000314-01-00

Relay Module $C\epsilon$

RELMOD

62-2000413-00-00

Relay module with 16 relays and 8 inputs.
- Very low energy consumption
- Coding Switch for module address (1 to 16)
- Inputs to remotely activate revision-mode and to initiate alarm simulations
- Inputs for external alarm- and fault-handling signals
- Input to trigger timer-controlled deactivation of differential temperature monitoring

Operating voltage:	10 to 36 VDC
Power consumption:	56 mA (Normal)
	105 mA (Alarm)
Operating temperature:	0°C to +70°C
Weight:	0.61 kg
Dimensions (HxWxD):	167 x 113,3 x 66,2 mm
Material:	aluminium

Remote Display Unit $C\epsilon$

RDU 316

62-2000493-00-00

Alphanumerical remote display, coloured background, 3 lines, 16 characters each, with menu-keys and common LEDs; RS 485 interface to communicate with a maximum of 31 SCU 800 control units; allow the identification of a sensor number in case of alarm
- stores all messages incl. date & time
- indicates messages with unit and sensor number, alarm zone
- test mode, which gives the status of the sensors
- clear text display in various languages

Operating voltage:	10 to 36 VDC
Power consumption:	40 mA (Normal)
	100 mA (Alarm)
Protection class:	IP66
Operating temperature:	0°C to +60°C
Dimensions (HxWxD):	110 x 140 x 60 mm
Material:	glass-fiber reinforced polycarbonate

4. Cable

Remote Display Unit			VdS CE
	SEC 20/02	sensor distance 2m	**62-2000385-00-00**
	SEC 20/04	sensor distance 4m	**62-2000388-00-00**
	SEC 20/05	sensor distance 5m	**62-2000389-00-00**
	SEC 20/08	sensor distance 8m	**62-2000393-00-00**
	SEC 20/10	sensor distance 10m	**62-2000394-00-00**

Can be used in a temperature range of -40°C to +85°C (briefly +200°C) and detects temperatures with a resolution of 0.1°C. Cable terminal processor and sensors communicate bi-directionally. The cable sheathing is marked with the sensor designations.

Cable design:
- Ribbon cable conductor, 4-core with mounted hybrid switches
- Filling material with strain relief (for cable protection in the event of a fire)
- Integrated aluminium shield
- Outer sheath halogen-free and flame resistant

Operating temperature:	-40°C to +120°C up to +200°C short term
Weight:	0,45 kg / m
Sheath material:	HM4 mixture, halogen free, flame retardant
Color:	grey

Approvals

VdS-Approval:	G 213072

5. Accessories List

Mounting Material			
Clamps			
	Cable clamp for SEC 17 delivery unit: 100 pcs	CLIC 17	62-8000300-00-00
Various mounting material			
	Stainless steel screw to mount CLIC 17 cable clamp delivery unit: 100 pcs	Screw Torx	62-8000303-00-00
	Nylon dowel screw to mount CLIC 17 cable clamp delivery unit: 100 pcs	Dowel	62-8000301-00-00
	Stainless steel cable clamp, grade 1.4571, stainless steel dowel and cable fastener must be ordered separately	MDJ 1.4571	62-8000349-00-00
	Stainless steel dowel grade 1.4571, to mount MDJ 1.4571	Dowel/Nut 1.4571	62-8000414-00-00
	Stainless steel cable clamp, grade 1.4529, stainless steel dowel and cable fastener must be ordered separately.	MDJ 1.4529	62-8000374-00-00
	Stainless steel dowel grade 1.4529, to mount MDJ 1.4529	Dowel/Nut 1.4529	62-8000411-00-00
	Cable fastener for line mounting	FEMC	62-8000384-00-00
	Protection for MDJ clamp and line mounting fastener in the event of a fire	FECT 201-A4	62-8000360-00-00
Tools			
	LIST crimping tool for 2-and 4-core flat cable connectors	CLCT	62-8000347-00-00
	Cable scissors for SEC sensor cable	Cutter SEC	62-0000427-00-00

Accessories List

Connection Box

CBO 20/0

CBO 20/1

CBO 20/3

CBO 20/0	for two SEC20	**62-2001011-01-01**
CBO 20/1	to link a SEC20 with a CC20	**62-2001011-02-01**
CBO 20/3	to link up to three SEC with up to two CC20	**62-2001011-03-01**

Connection box between two sensor cables incl connector for cable shield.
CBO 20/1 and CBO 20/3 incl. connection module CCM with over-voltage-protection.

Protection class:	IP66
Operating temperature:	-30°C to +90°C
Weight:	1,6 kg
Dimensions (HxWxD):	244 x 164 x 101 mm
Material:	glass-fiber reinforced polycarbonate
Color:	pebbel grey (RAL 7032)

Accessories		
Accessory Bag	CBO 20/0 Acc	62-4000431-00-00
Screw for CBO	CBO 20 Screw	62-6000653-00-00
Accessory Bag	CBO 20/1 Acc	62-4000432-00-00
Accessory Bag	CBO 20/3 Acc	62-4000436-00-00
Accessory Bag	CBO 20/3 Acc CCM	62-4000437-00-00
Screw for CBO	CBO 20 Screw	62-6000653-00-00

Assembly hint:
All Flat cable connector and shield connectors are included.

Connection Cable

CC 20	**62-8000341-00-00**

LISTEC supply cable 2x2x0.8, shielded, JE-H(ST)H E30, for an SEC 20 sensor cable
If it is not possible to connect the sensor cable directly to the sensor control unit, the connection cable CC 20 can connect sensor control unit and sensor cable via the connection box.

Operating temperature:	-30°C to +70°C
Sheath material:	HM2 compound, flame retardant
Color:	red

Connection Cable   C€

CSM 200   62-2000264-00-00

Sensor cable simulator for up to 200 sensors. Up to two SEC 20 sensor cables and one single ESA sensor can be connected to the CSM 200. Alternative temperature values can be set with four buttons. As a result, differential temperature pre-alarm, differential temperature alarm, maximum temperature alarm or the failure of a sensor can be simulated.

Operating temperature:	0°C to +40°C
Weigth:	0,13 kg
Dimensions (HxWxD):	102,5 x 82 x 42 mm

LIST cable tester   C€

LCT 20   62-2000417-00-00

Sensor and cable tester for LIST sensor cable SEC 20; for fast testing of LIST sensor cables immediately after installation or temporary storage.
- USB connection
- Battery operation
- Aluminum housing with shoulder straps
- Power supply unit
- Sensor address range 0 to 1023

Mains voltage / Frequency:	240 VAC 50/60 Hz
Operating temperature:	-10°C to +60°C
Weigth:	1,1 kg
Dimensions (HxWxD):	206,0 x 168,0 x 36,0 mm
Material:	aluminium

Fibre optic converter   C€

FOC 485   62-8000369-00-00

Interface converter for RS 485 to fibre optic, single and multi.

Operating voltage:	18 to 32 VDC (typ. 24 VDC)
Protection class:	IP20
Operating temperature:	-25ºC to +70ºC
Weight of basic version:	0,215 kg
Dimensions (HxWxD):	35 x 163 x 119 mm
Material:	plastics
Color:	light grey (RAL 7035)

Accessories List

Optical fibre converter FOC $\qquad$ CE

| LAN-multi | multi-mode | 62-8000370-00-00 |
| LAN-single | single-mode | 62-8000371-00-00 |

Interface converter for LAN to fibre optic

Operating voltage:	24 VDC (18-32V)
Power consumption:	315 mA
Protection class:	IP20
Operating temperature:	0°C to +60°C
Weight of basic version:	0,4 kg
Dimensions (HxWxD):	71 mm x 131 mm x 111 mm
Material:	plastic

Wall mounted cabinet

| CAB 19/12 | (12HE) | 62-2000415-00-00 |

19" wall cabinet, completely wired, incl. terminals. For holding a LIST controller, two relay modules, PS 24xx power supply unit and a fibre optic converter

Accessories		
Accessory Bag	CAB 19 Acc	62-4000418-00-00
Wall mounting holder for CAB 19/x	CAB WallHold	62-6000666-00-00

Service case

| SC 15/20 | | 62-2000432-00-00 |

Service case with tool for repair and connection of sensor cable.

Content:

Article	Quantity
Tool case	1
Manual SCU800/SEC 15	1
LIST-Crimping tool, adjusted	1
Cable cutter	1
Cable knife	1
Cable-stripping tool	1
Selection of 6 screwdrivers	1
Size 3 electronic screwdriver	1
Electronic side cutter	1
Side cutter	1
Multigrippliers	1
Combination pliers	1
Clincher male CLS2	15
Clincher female CLB2	15
Clincher strain relief CLVS	15
Shield connector SEC 15	10
End cap END 15	2
Clamp Clic 15	10
CCM modul SEC 150-A	1
UCM-SEC	1
Sleeve SEC 15	2
Isolating tape	1
Tape to vulcanize	1

6. ATEX components LIST

ATEX Marker for sensor cable		

Label SEC 20 Atex

62-7000004-00-00

Identification and conformity certificate for SEC 20 sensor cable for use in zone 2 and 22.

Connection box		⟨Ex⟩	CE

CBO 20-SEC/1-Ex	for one SEC 20	62-2000293-00-00
CBO 20-SEC/2-Ex	for two SEC 20	62-2000296-00-00

Connection box to link one SEC 20 sensor cable with up to two CC 20 connection cables, can also be used as end box

Protection class:	IP65
Operating temperature:	-20°C to +60°C
Weight of basic version:	1,5 kg
Dimensions (HxWxD):	236,7 x 191 x 101 mm
Material:	glass-fiber reinforced polycarbonate
Color:	jet black (RAL 9005)

Approvals

ATEX-Approval:	Ex II 3G Ex nA IIC T4 Gc
	Ex II 3D Ex tc IIIB T125 °C Dc

7. Spare Parts

Spare Parts			
Connection Cable 3m			
	Connection Cable VKSEC-S4-KL-03 Pre-assembled connecting cable for connection to sensor cable.	VKSEC-S4-KL-03	62-4000239-00-00
	Connection Cable VK485-S4-MS-03 Pre-assembled connecting cable for RS 485 connection.	VK485-S4-MS-03	62-4000240-00-00
	Connection Cable VK232-S4-KL-03 Pre-assembled connecting cable for RS 232 connection.	VK232-S4-KL-03	62-4000241-00-00
	Connection Cable VKI/O-S4-KL-03 Pre-assembled connecting cable for control I/O connection.	VKI/O-S4-KL-03	62-4000242-00-00
	Connection Cable VK24-S4-KL-03 Pre-assembled connecting cable for power supply.	VK24-S4-KL-03	62-4000243-00-00
	Connection Cable VKLAN-S4-PC-03 Pre-assembled connecting cable for LAN connection.	VKLAN-S4-PC-03	62-8000367-00-00
Connection Module			
	Connection Module CCM 3000	CCM 3000	62-4000334-00-00
	Connection Module CCM 3000_D with over-voltage protection	CCM 3000_D	62-4000335-00-00
Various spare parts			
	RELMOD line monitoring pcb	RELMOD-R	62-4000143-00-00
	Fuse for RELMOD, 1 A, 250 V, fast	RELMOD-F	62-6000377-00-00
	Shield Connector SCON 20/1	SCON 20/1	62-4000317-00-00
	Shield Connector SCON 20/2	SCON 20/2	62-8000382-00-00
	Flat cable connector CLB 4	CLB 4	62-8000317-00-00
	Flat cable connector CLS 4	CLS 4	62-8000318-00-00
	Clincher Strain Relief CLVP	CLVP	62-8000320-00-00
	End device END	END	62-8000503-00-00
	Repair-set N20	N20 Repair	62-2000397-00-00
	Drill SDS 3L	SDS 3L	62-8000354-00-00
	Setting tool SWM-SM 50 For hammer drill	SWM-SM 50	62-8000412-00-00
	Setting tool SWM-H For manual mounting	SWM-H	62-8000413-00-00

8. Services

SecuriSens LIST Commissioning			
Support Fee			
	Commissioning support fee for projects within Europe.	Commission EU	11-5000001-01-01
	Commissioning support fee for projects at Overseas.	Commission OvS	11-5000002-01-01

9. Product Type Index

SecuriHeat d-LIST

Product Catalogue 2020

Content

1. Introduction

SecuriSens d-LIST heat detectors, where all other detectors reach their limits.
Dust, heat, smoke, exhaust fumes and other interference factors have a significant impact on detecting fires when using conventional fire detectors. However, it is exactly under such difficult conditions that the fire risk is so great and it is vital to ensure quick and reliable detection – such as in tunnels, industrial facilities, power plants and car parks.
With the SecuriSens d-LIST line-type heat detectors, Securiton provides systems that can enable the rapid localisation of a fire – even when used in harsh, aggressive environments.

Safety in industrial facilities – the SecuriSens d-LIST.
The SecuriSens d-LIST line-type heat detector with SEC 15 sensor cable is ideally suited to applications with small monitoring areas. Two sensor cables with a maximum length of 250 metres each can be connected to the SCU 800 (sensor control unit) and put into operation at the touch of a button – and all without special aids or advance knowledge of the system. The monitoring system with a maximum of two sets of 99 sensors can be universally integrated in fire alarm systems and also offers mobile application possibilities. Several SCU 800 units can be networked easily for monitoring larger areas. The d-LIST system can also be expanded with individual temperature sensors in metal housings for monitoring critical areas such as drive units on conveyor belts and escalators, among others.

Outstanding flexibility – because every object needs individual protection.
The spacing between sensors can be freely selected, and it is even possible to combine different sensor spacing distances. You can see where the sensors are located according to the markings on the outer sheathing of the sensor cable. Another highlight (and one that is absolutely unique on the market) is the problem-free branching of the cable harnesses. External individual sensors in metal housings are available for special applications and can be easily connected to the SecuriSens d-LIST system. Different sensor cable areas can be connected together with one signal cable.

Product
The descriptions and technical data included in this catalogue are up-to-date at the time of release. We reserve the right to make alterations to them, particularly where justified by technological advancements. The illustrated products may also differ visually from the products supplied as a result of continuous further development of products.
The layout of this catalogue is subject to copyright. The copying or reuse of text, illustrations and photos in any media (e.g. print, CD-ROM, Internet, etc.) contained within this catalogue - also in an abridged form - is only allowed with our explicit written permission. We assume no liability for typographic errors and obvious mistakes. Please quote the relevant item numbers when making enquiries or placing an order.
Delivery conditions are regulated in the "General Terms and Conditions of Securiton AG for Export Deliveries"

2. System Overview

d-LIST system design
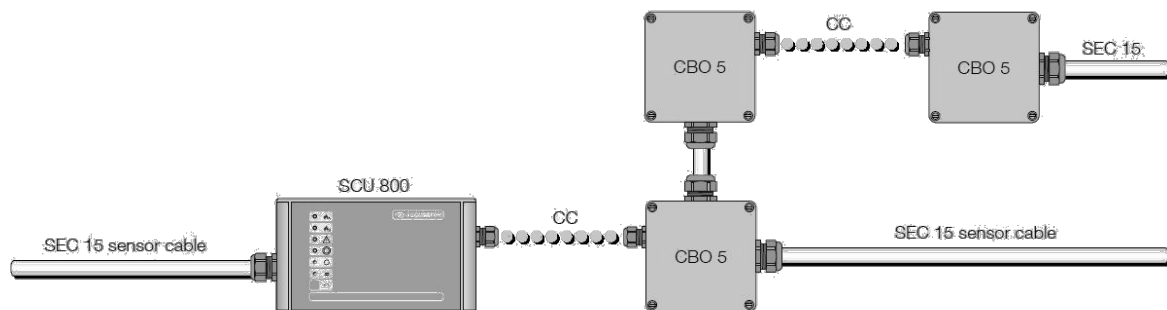
3. Processor Units

SCU 800-03	**62-2000545-00-00**
SCU 800/16	**62-2000546-00-00**

The sensor control unit SCU 800 is the central supervisory element for the d-LIST-system.

It provides up to two d-LIST sensor cables with power, performs the cyclic addressing of the connected sensors every 10 seconds, acquires the temperature values measured by each sensor and evaluates the data with reference to various criteria.

A fire alarm is generated if either a given maximum threshold is exceeded, or if an increase in temperature takes place within a certain time (differential evaluation). The two thresholds (set-points) can be set individually for each of the attached sensor cables.

The measurement resolution of 0,1° gives the system a high sensitivity. The tried and tested algorithms used in the evaluation eliminate false alarms due to natural temperature variations.

- Input 5 VDC reset input, galvanically isolated
- CNBOP certified according EN 54-22

Operating voltage:	21 to 29 VDC
Power consumption:	250 mA
Operating temperature:	-10°C to +60°C
Weight:	SCU800-03: 1,9 Kg SCU800/16: 2,3 Kg
Dimensions (HxWxD):	260 x 150 x 90 mm
Material:	aluminium

Approvals

CNBOP-Approval:	063-UWB-0074

Accessories		
Accessories cable glands	SCU 800 Acc	62-4000415-00-00
Accessories blind plugs	SCU 800 Plug	62-4000439-00-00
Accessories connectors	SCU 800 Con	62-4000416-00-00

Processor Units

LISTcontroller Master

CE

Lcon Master

62-2000353-00-00

Central control and display unit as master for d-LIST sensor cable systems, with alphanumeric LCD display and operation buttons, a potential-free change-over contact for buzzer fault/alarm each, operating voltage: 24 VDC; mounted in 19" unit rack, for cabinet mounting

Operating voltage:	24 VDC
Operating temperature:	-5°C to +70°C
Weight:	2,6 kg
Dimensions (HxWxD):	482,6 x 43,6 x 315,5 mm
Material:	aluminium

Remote Display Unit

CE

RDU 316

62-2000493-00-00

Alphanumerical remote display, coloured background, 3 lines, 16 characters each, with menu-keys and common LEDs; RS 485 interface to communicate with a maximum of 31 SCU 800 control units; allow the identification of a sensor number in case of alarm
- stores all messages incl. date & time
- indicates messages with unit and sensor number, alarm zone
- test mode, which gives the status of the sensors
- clear text display in various languages

Operating voltage:	10 to 36 VDC
Power consumption:	40 mA (Normal)
	100 mA (Alarm)
Protection class:	IP66
Operating temperature:	0°C to +60°C
Dimensions (HxWxD):	110 x 140 x 60 mm
Material:	glass-fiber reinforced polycarbonate

3.1. Demo and Test Equipment

d-LIST DCU   **62-2000558-00-00**

Demo case, fully assembled and programmed with evaluation unit SCU 800, remote display RDU 316, sensor cable SEC 15 section with one sensor, two external sensors ESD, 30 internal sensors, Bluetooth adapter, power supply 110 - 230 V AC.

Weight:	9.5kg
Dimensions (HxWxD):	110 x 140 x 60 mm

4. Cable d-List

Remote Display Unit

SEC 15/01	sensor distance 1m	**62-2000360-00-00**
SEC 15/02	sensor distance 2m	**62-2000367-00-00**
SEC 15/03	sensor distance 3m	**62-2000372-00-00**
SEC 15/04	sensor distance 4m	**62-2000374-00-00**
SEC 15/05	sensor distance 5m	**62-2000376-00-00**

The cable is able to measure temperatures from -40°C to +85°C (for short periods +120°C) with a resolution of 0,1° Celsius.
Cable structure:
- Hybrid circuits mounted on a 2 core flat flexible cable
- Filling material with strain relief, which secures the cable in case of fire
- Aluminium shield
- Halogenfree cable sheath; flame retardent and non-corrosive, with sensor marking

Operating temperature:	-40°C to +120°C
Weight:	0,35 kg / m
Sheath material:	HM4 mixture, halogen free, flame retardant
Color:	grey

Approvals

CNBOP-Approval:	063-UWB-0074

5. Single Sensor d-List

External Sensor rectangular

ESD-A5-EL-01	1m	**62-2000343-00-00**
ESD-A5-EL-05	5m	**62-2000346-00-00**
ESD-A5-EL-10	10m	**62-2000499-00-00**

Stainless steel sensor A5 for use with the d-LIST-System, whereby all sensors are connected in parallel via standard terminals. These sensors can be used together with SEC15 sensor cable and the control unit SCU800.
Design: rectangular 8 mm

Operating temperature:	-40°C to +150°C
Material:	Stainless steel

External Sensor round

ESD-A5-RL-01	1m	**62-2000347-00-00**
ESD-A5-RL-05	5m	**62-2000350-00-00**
ESD-A5-RL-10	10m	**62-2000498-00-00**

Stainless steel sensor A5 for use with the d-LIST-System, whereby all sensors are connected in parallel via standard terminals. These sensors can be used together with SEC15 sensor cable and the control unit SCU800.
Design: round 8 mm

Operating temperature:	-40°C to +150°C
Material:	Stainless steel

6. Accessories d-List

Mounting Material d-List		
Clamps		
Cable clamp for SEC 15 delivery unit: 100 pcs	CLIC 15	62-8000304-00-00
Pipe clamp for SEC 15 with locking clip	MDC	62-8000344-00-00
Various mounting material		
Stainless steel screw to mount CLIC 17 cable clamp delivery unit: 100 pcs	Screw Torx	62-8000303-00-00
Nylon dowel screw to mount CLIC 17 cable clamp delivery unit: 100 pcs	Dowel	62-8000301-00-00
Nylon dowel screw to mount CLIC 17 cable clamp delivery unit: 100 pcs	MDJ 1.4571	62-8000349-00-00
Stainless steel dowel grade 1.4571, to mount MDJ 1.4571	Dowel/Nut 1.4571	62-8000414-00-00
Stainless steel cable clamp, grade 1.4529, stainless steel dowel and cable fastener must be ordered separately.	MDJ 1.4529	62-8000374-00-00
Stainless steel dowel grade 1.4529, to mount MDJ 1.4529	Dowel/Nut 1.4529	62-8000411-00-00
Cable fastener for line mounting	FEMC	62-8000384-00-00
Protection for MDJ clamp and line mounting fastener in the event of a fire	FECT 201-A4	62-8000360-00-00

Connection Box

$C\epsilon$

CBO 5-SEC

62-2000300-00-01

Connection unit for one or two temperature sensor cable SEC15 including an universal connection module UCM.

If it is not possible to connect the sensor cable directly to the sensor control unit SCU800, the connection cable CC15 can connect sensor control unit and sensor cable via the connection box. In the box the connection cable and the sensor cable are linked together via the connection module UCM. If short transmission lines are linked the universal connection module has the possibility to activate adaptation resistors.

Protection class:	IP66
Operating temperature:	-35°C to +60°C (short period +80°C)
Dimensions (HxWxD):	130 x 130 x 75 mm
Material:	glass-fibre reinforced, polycarbonat

Accessories		
Accessory Bag	CBO 5-SEC Acc	62-4000409-00-00

Connection Box

$C\epsilon$

CBO 5-ESD-T

62-2000530-00-01

Connection unit for up to eight external sensors ESD or four single sensors and one LIST-cable SEC15. The external sensors can be connected to the SEC15 sensor cable bus via the connection box. It is possible to connect up to eight single sensors to the bus or four sensors and a sensor cable. Every connection has an adaption resistance. This can be activated, if needed, for example for short adaptation resistors.

Protection class:	IP66
Operating temperature:	-35°C to +60°C (short period +80°C)
Dimensions (HxWxD):	130 x 130 x 75 mm
Material:	glass-fibre reinforced, polycarbonat

Accessories		
Accessory Bag	CBO 5-ESD-T Acc	62-4000422-00-00

Accessories d-List

Connection Cable

CC 15 **62-8000345-00-00**

LISTEC supply cable 1x2x0.8, shielded, JE-H(ST)H E30, for an SEC 15 sensor cable.
If it is not possible to connect the sensor cable directly to the sensor control unit SCU800, the connection cable CC15 can connect sensor control unit and sensor cable via the connection box.

Operating temperature:	-30°C to +70°C
Sheath material:	HM2 compound, flame retardant
Color:	red

d-List Accessories

Cabels

	Sensor cable with termination cap, CLB2 and shield connector.	SEC 15 fit box	62-3000354-00-00
	Sensor cable pre-fabrication with plug, 3-pin and termination cap.	SECcon 15-1	62-3000351-00-00
	Sensor cable pre-fabricated with plug and socket, 3 pin	SECcon 15-2	62-3000352-00-00
	Coupling with socket, 3-pin	SECcon 15-Cf	62-8000403-00-00
	Coupling with plug, 3 pin	SECcon 15-Cm	62-8000404-00-00
	USB / RS 485 cable for connection between SCU 800 and PC.	USB-RS485	62-0000312-00-00
	RS 232 cable for connection between SCU 800 and PC.	VK232-S8-PC-03	62-4000172-00-00

Configuration software

	The LIST p800 configuration software was specially developed for the operation and programming of the SecuriSens d-LIST system	LISTp800	62-2000488-00-00
	Registration Dongle for LIST p800	CM-USB KEYRING	62-4000450-00-00

Tools

	LIST crimping tool for 2-and 4-core flat cable connectors	CLCT	62-8000347-00-00
	Cable scissors for SEC sensor cable	Cutter SEC	62-0000427-00-00

Service case

SC 15/20   **62-2000432-00-00**

Service case with tool for repair and connection of sensor cable.

Content:

Article	Quantity
Tool case	1
Manual SCU800/SEC 15	1
LIST-Crimping tool, adjusted	1
Cable cutter	1
Cable knife	1
Cable-stripping tool	1
Selection of 6 screwdrivers	1
Size 3 electronic screwdriver	1
Electronic side cutter	1
Side cutter	1
Multigrippliers	1
Combination pliers	1
Clincher male CLS2	15
Clincher female CLB2	15
Clincher strain relief CLVS	15
Shield connector SEC 15	10
End cap END 15	2
Clamp Clic 15	10
CCM modul SEC 150-A	1
UCM-SEC	1
Sleeve SEC 15	2
Isolating tape	1
Tape to vulcanize	1

7. ATEX components d-LIST

SCU 800-03 in ex-proof housing CAB 800-ex

SCU 800-03 Ex
62-2000284-00-00

SCU 800-03 in ex housing, pre-mounted with mounting plate, terminal block, earthing rail and screw-junction pieces.

ATEX Marker for sensor cable

Label SEC 15 Atex
62-7000002-00-00

Identification and conformity certificate for SEC 15 sensor cable for use in zone 2 and 22.

ATEX Marker for sensor cable

Label ESD Atex
62-7000003-00-00

Identification and conformity certificate for ESD individual sensor for use in zone 2 and 22.

External sensor

ESD-Atex-A4-RL-01	1m	**62-2000507-00-00**
ESD-Atex-A4-RL-05	5m	**62-2000511-00-00**
ESD-Atex-A4-RL-10	10m	**62-2000512-00-00**

External sensor round stainless steel sensor in A4 to connected to the d-LIST Line Type Heat Detector via suitably certified connection boxes.
Design: Round

Operating temperature:	-20°C to+40°C
Cable sheath:	FEP

Ex proof connection box
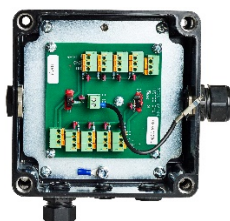
CBO 05-Ex
62-2000283-00-00

Connection box for sensor cable SEC 15 and external sensors ESD in potentially explosive atmospheres (Zone 2 and 22).

Accessories		
Accessory Bag	CBO 5-Ex Acc	62-4000424-00-00

8. Spare Parts d-LIST

Spare Parts			
Repair spare parts			
	Main board for SCU 800-03 / SCU 800/16 For repair only	SCI 800 LP	62-4000189-00-00
	LED-board with group indication for SCU 800 For repair only	IB 800 LP	62-4000192-00-00
	Relay card with 16 potential-free change-over contacts for SCU 800	REL 800/16 LP	62-4000225-00-00
Universal connection module			
	Shrink sleeve with ribbon cable connection, shield connector, plug and socket, and sealing material. For connecting two SEC 15 cables	UCM-ESD	62-4000258-00-00
	Connection module for up to two sensor cabes SEC 15	UCM-SEC	62-4000259-00-00
Various spare parts			
	End caps pre-mounted, incl. front foil, housing covering strips & cover holder; with Securiton front foil.	SCU 800 Case	62-4000440-00-00
	Shield connectors for connecting sensor cables. with ring connector	SCON 15/0	62-4000315-00-00
	Shield connectors for connecting sensor cables. with Pin	SCON 15/1	62-4000316-00-00
	Ribbon cable crimping connector, 2-core, socket delivery unit: 100	CLB 2	62-8000315-00-00
	For locking a CLB clincher with pin plug delivery unit: 100	CLVP	62-8000320-00-00
	End cap for sensor cable SEC 15	END	62-8000503-00-00
	Shrink sleeve with ribbon cable connection, shield connector, plug and socket, and sealing material. For connecting two SEC 15 cables	N15 Repair	62-2000396-00-00

9. Services

SecuriSens LIST Commissioning			
Support Fee			
	Commissioning support fee for projects within Europe.	Commission EU	11-5000001-01-01
	Commissioning support fee for projects at Overseas.	Commission OvS	11-5000002-01-01

10. Product Type Index

Product Type Index

SecuriBeam BSD 535 / ILIA and Flame

Product Catalogue 2020

Content

1. Introduction

Beam Smoke Detector
The beam smoke detector systems consist of a transmitter/
receiver unit or reflector which is mounted on the opposite wall. The infrared light beam from the transmitter is sent back to the reflector.

Applications
Thanks to the linear design of transmitter and receiver or reflector, the SecuriBeam can be deployed wherever conventional point detectors cannot be used due to structural issues or when such detectors are not able to guarantee optimal protection. Examples of such applications:
- Large warehouses and production halls
- Covered inner courtyards (atriums)
- Reception halls
- Warehouses
- Attics in churches
- Cinemas, theatres

Production
All Securiton fire alarm systems, system components and detectors are developed and manufactured in Europe and in compliance with the most recent European standards, as well as representing the cutting edge of technology based upon the most up-to-date scientific knowledge.

Product
The descriptions and technical data included in this catalogue are up-to-date at the time of release. We reserve the right to make alterations to them, particularly where justified by technological advancements. The illustrated products may also differ visually from the products supplied as a result of continuous further development of products.
The layout of this catalogue is subject to copyright. The copying or reuse of text, illustrations and photos in any media (e.g. print, CD-ROM, Internet, etc.) contained within this catalogue - also in an abridged form - is only allowed with our explicit written permission. We assume no liability for typographic errors and obvious mistakes. Please quote the relevant item numbers when making enquiries or placing an order.
Delivery conditions are regulated in the "General Terms and Conditions of Securiton AG for Export Deliveries"

2. System Overview

2.1. SecuriBeam ILIA
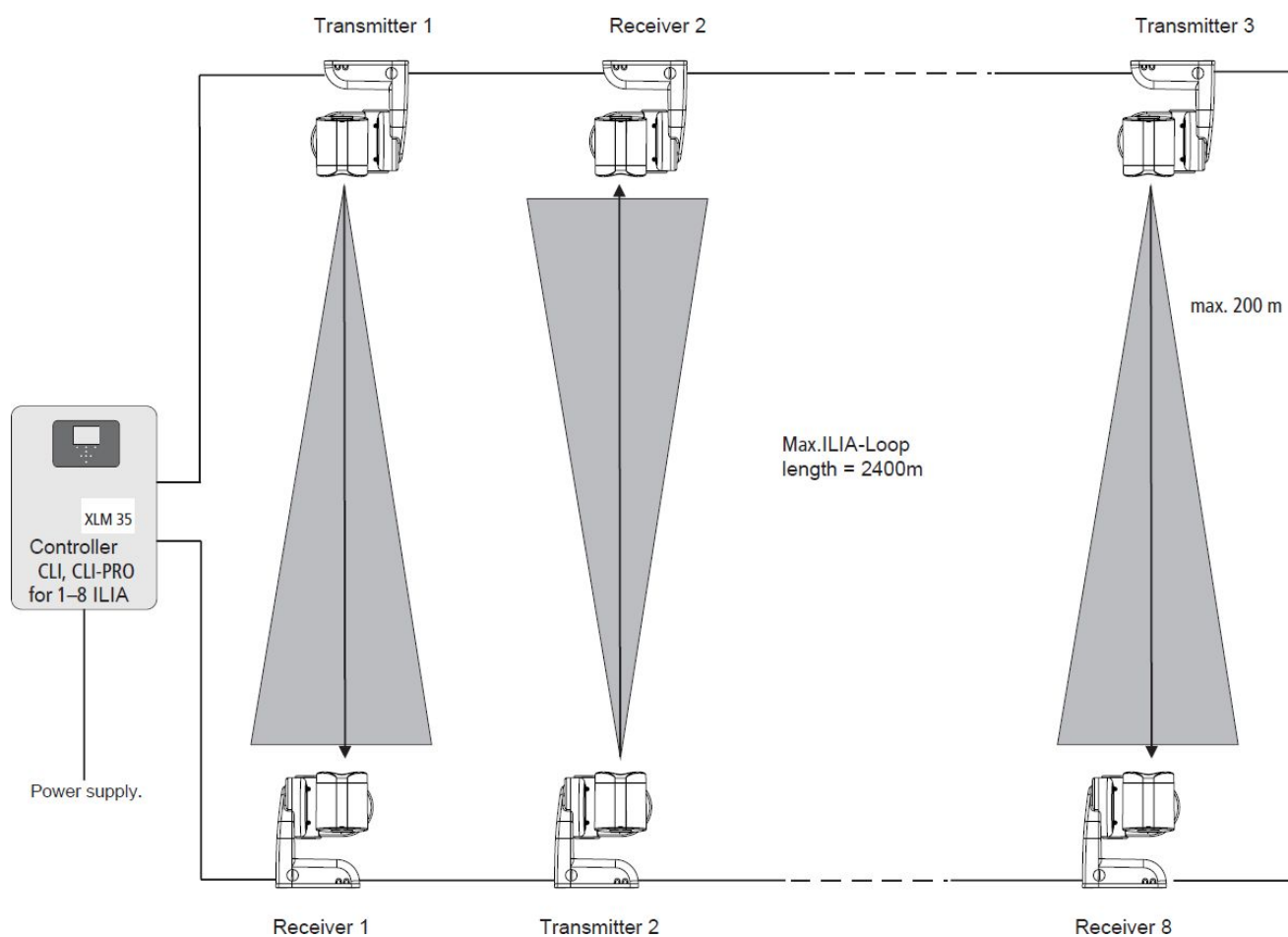
Transmitter 1   Receiver 2   Transmitter 3

max. 200 m

XLM 35
Controller
CLI, CLI-PRO
for 1–8 ILIA

Max. ILIA-Loop
length = 2400m

Power supply.

Receiver 1   Transmitter 2   Receiver 8

The illustrated components are examples and can be combined within the scope of the technical possibilities. The technical documentation, installation instructions and regional standards must be observed.

3. Beam Detector BSD

3.1. SecuriBeam BSD 535

Beam Smoke Detector incl. 1 BRE 535   VdS CE

BSD 535   11-3000006-01-01

The Beam Detector BSD 535 including one reflector BRE 535 is particularly suited for indoor smoke detection in industrial sheds - palletised and traditional warehouses, garages, supermarkets, mega stores, cinemas, theatres, conference rooms, trade exhibition centres, public buildings with large flows of people in general and any other large civil and industrial spaces of any shape.
Operating Distance: 3 - 100 m

Operating voltage:	12 VDC – 30 VDC
Protection class detector:	IP31
Protection class optical block:	IP51
Operating temperature:	-10°C to +55°C
Weight:	1000 g
Dimensions (HxWxD):	170 x 150 x 160 mm
Color:	traffic white (RAL 9016)

Approvals

VdS-Approval:	G 210082
Declaration of Performance (DoP):	CPR-11-19-112

3.2. Accessories for BSD

Beam detector Reset Unit	[VdS] CE

BRU 535   11-3000005-01-01

The BRU-535 is a reset unit, with which the BDS 535 can be local deactivated.
The BRU 535 can be connected to the BRC 535

Protection class:	IP40
Weight:	110 g
Dimensions (HxWxD):	90,5 x 90,5 x 40,5 mm
Color:	light grey

Beam detector Remote Control	[VdS] CE

BRC 535   11-3000002-01-01

The BRC 535 is an aid tool for the installation, start up and maintenance of the Securiton linear smoke detector, version BSD 535 and up.

Weight of basic version:	465 g
Dimensions (HxWxD):	173 x 110 x 33 mm
Color:	light grey

Beam detector Remote Control	

BRP 535   11-3000004-01-01

The reflector sun-shield protects the system against unwanted incident light radiation from corners more than 40 to the optical axis (Vertical to the reflecting surface) of the reflector.
Two grid screens can be set on top of each other. Then the system is protected against unwanted incident light radiation up to 20 ° to the optical axis of the reflector.

Weight of basic version:	80 g
Dimensions (HxWxD):	102 x 102 x 40 mm
Color:	light grey

Beam Detector BSD

Beam detector Articulated Bracket

BAB 535   **11-3000004-01-01**

Articulated Bracket if a 90° installation on the wall is not possible.

Weight:	995 g
Dimensions (HxWxD):	166 x 130 x 57 mm

BSD 535 Accessories

Beam Detector Reflector

Beam detector Reflector Extension for BSD 535	BRE 535-3	11-3000003-01-01
Beam detector Reflector Extension for BSD 535 delivery unit: 3 pcs	BRE 535-3	11-3000003-03-01

4. Beam Detector ILIA

4.1. SecuriBeam ILIA

Linear smoke detector ILIA T/R	UL	VdS	CE

ERHS0712		**11-3000007-01-01**
ERHS0712-UL	UL-Listed	**11-3000019-01-01**

The transmitter / receiver system ILIA T/R is particularly suited for indoor smoke and fire detection. Thanks to the linear design with transmitter and receiver, it may be used wherever structural situations prevent the installation of conventional point detectors or where the latter can no longer guarantee optimal protection.
- Evaluation: Smoke / Fire
- Operating Distance:10 - 200 m

Operating voltage:	9,6 to 32 VDC
Power consumption:	31 to 177 mA
Protection class detector:	IP65
Operating temperature:	-20°C to + 65°C
Weight:	770 g
Dimensions (HxWxD):	162 x 145 x 193 mm
Color:	black blue (RAL 5004)

Approvals

VdS-Approval:	G 209195
Declaration of Performance (DoP):	0786-CPR-20925

Control unit for 2 ILIA	UL	VdS	CE

CSRLS-2		**11-3000011-01-01**
CSRLS-2-UL	UL-Listed	**11-3000020-01-01**

Control unit for 2 x ILIA T/R systems for stub connection. All adjustment, testing and maintenance work can be simply and reliably performed on the easily accessible control unit.

Operating voltage:	9,6 to 32 VDC
Protection class:	IP65
Operating temperature:	-20°C to + 65°C
Weight of basic version:	375 g
Dimensions (HxWxD):	145 x 177 x 68 mm
Colour:	black blue (RAL 5004)

Approvals

VdS-Approval:	G 209195

Beam Detector ILIA

Extension module to CSRLS, 6 ILIA
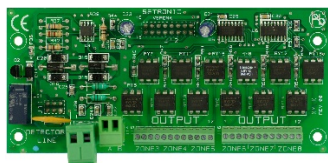
SMLS   **11-3000012-01-01**

SMLS-UL   UL-Listed   **11-3000021-01-01**

ERHS0712:
Control unit extension board for CSRLS-2 control unit to add **six** additional ILIA detectors.

ERHS0712-PRO:
Control unit extension board for CSRLS-PRO control unit to add **six** additional ILIA Pro detectors When pre-signals are activated only **three** additional ILIA PRO T/R can be used.

Weight:	50 g
Dimensions (HxWxD):	120 x 55 x 35 mm

Control Unit for 8 ILIA, XLM, CLI

CLI   **11-3000013-01-01**

Control Unit for 8 ILIA detectors as stub or ring connection.
Optional:
- Relay card CM-IB: General alarm, General fault, General maintenance, detail info for detector 1 to 2 (alarm, fault)
- Relay card CM-IE: detail info for detector 3 to 8 (alarm, fault)
- XLM 35 to connect the CLI direct to SecuriFire. The XLM35 VdS certification is in preparation.

Operating voltage:	24 VDC
Protection class detector:	IP65
Operating temperature:	-20°C to + 65°C
Weight:	2400 g
Dimensions (HxWxD):	426 x 320 x 150 mm
Color:	grey / jet black (RAL 9005)

Approvals

VdS-Approval:	G 209195

Relay Board

CM-IB   **11-3000014-01-01**

CM-IE   **11-3000015-01-01**

Relay card CM-IB: General pre alarm, General alarm, General fault, General maintenance, detail info for detector 1 to 2 (pre alarm, alarm, fault).
Relay card CM-IE: detail info for detector 3 to 8 (pre alarm, alarm, fault)
To be mounted in Control Unit CLI.

4.2. SecuriBeam ILIA Pro

Linear smoke detector ILIA PRO T/R	VdS CE

ERHS0712-PRO   11-3000016-01-01

The transmitter / receiver system ILIA PRO T/R is particularly suited for indoor smoke and fire detection in extremely dusty environments. Thanks to the linear design with transmitter and receiver, it may be used wherever structural situations prevent the installation of conventional point detectors or where the latter can no longer guarantee optimal protection.

Operating voltage:	9,6 VDC - 32 VDC
Power consumption:	mAProtection class detector: IP65
Operating temperature:	-20°C to +65°C
Operating Distance:	10 - 200 m
Weight of basic version:	770 g
Dimensions (HxWxD):	162 x 145 x 193 mm
Color:	black blue (RAL 5004)
Approvals	
VdS-Approval:	G 209195
Declaration of Performance (DoP):	0786-CPR-20925

Control unit for 2 ILIA PRO	VdS CE

CSRLS-PRO   11-3000017-01-01

Control unit for 2 x ILIA PRO T/R systems for stub connection, in extremely dusty environments. All adjustment, testing and maintenance work can be simply and reliably performed on the easily accessible control unit. The control unit CSRLS-PRO is design for extremely dusty environments

Operating voltage:	9,6 to 32 VDC
Protection class:	IP65
Operating temperature:	-20°C to + 65°C
Weight of basic version:	375g
Dimensions (HxWxD):	145 x 177 x 68 mm
Color:	black blue (RAL 5004)

Approvals

VdS-Approval:	G 209195

Beam Detector ILIA

Control Unit f. 8 ILIA PRO, XLM, CLI-PRO

VdS CE

CLI-PRO

11-3000018-01-01

Control Unit for 8 ILIA-PRO detectors as stub or ring connection.
Optional:
- Relay card CM-IB: General alarm, General fault, General maintenance, detail info for detector 1 to 2 (alarm, fault)
- Relay card CM-IE: detail info for detector 3 to 8 (alarm, fault)
- XLM 35 to connect the CLI direct to SecuriFire. The XLM35 VdS certification is in preparation.

Operating Voltage:	24VDC
Protection class:	IP 65
Operating temperature:	-20°C to + 65°C
Weight of basic version:	2400g
Dimensions (HxWxD):	426 x 320 x 150 mm
Color:	grey / jet black (RAL 9005)

Approvals

VdS-Approval:	G 209195

4.3. Accessories for ILIA

Accessories and Spare Parts for ILIA

Replacement parts for Ilia

	Replacement base for ILIA, without print.	SM17	11-3000043-01-01
	Electronic print for ILIA spare base SM17.	SSMP-C	11-3000045-01-01

Replacement parts for CLI

	Replacement mainboard to CLI, CPU	CPU	11-3000041-01-01
	Replacement mainboard to CLI-PRO, CPU-PRO	CPU-PRO	11-3000042-01-01

Mounting accessories

	Protective basket for ILIA	GDP	11-3000028-01-01
	Adjustable wall/ceiling holder for ILIA T/R	SACA-G	11-3000025-01-01

Test equipment

	Test filter to Beam Smoke Det.	STF4	11-3000039-01-01

Protective Housing for ILIA

VdS

SOHI **11-3000026-01-01**

Protective case for extremely dusty environments.
Additional security for permanent acid concentrations in the air or aggressive dust concentrations
Protection against misalignment during cleaning and Disinfection

Protection class:	IP65
Operating temperature:	
Weight of basic version:	2100g
Dimensions (HxWxD):	303 x 303 x 260 mm

Accessories		
Pane for protective housing SOHI	FAPO	11-3000027-01-01

Air shield for ILIA SOHI

ASIS **11-3000049-01-01**

SOHI can be expanded for dusty environment with the air shield to avoid dust deposit in front of the SOHI pane.

5. Beam Detector Ardea

Beam Det. ARDEA SF EExd/100

ASFEEx/100   **11-3000047-01-01**

ASFEEx/100 is a line detector (Transmitter-Receiver) for smoke (model ASEExd) or for smoke and fire (model ASFEExd) that basis its detection on the modulation resulting from the start of a fire under different conditions.
It is built into an ATEX container that ensures installation in Z1-2-21-22 classified areas.

-   Operating Distance: 3 - 100 m

Operating voltage:	24 VDC
Protection class:	IP 66
Operating temperature:	-10°C to +55°C
Dimensions (HxWxD):	276 x 170 x 52 mm
Color:	anthracite grey (RAL 7016)

Approvals

VdS-Approval:	G 294043

Analisys and verification unit, UDC SF

UDC SF   **11-3000051-01-01**

Analysis and verification unit UDC enables both the calibration and the tests to be carried out from ground level and has closed or open contacts for fire alarm and fault alarm.

Operating voltage:	24 VDC
Operating temperature:	-10°C to +55°C
Dimensions (HxWxD):	276 x 170 x 52 mm
Color:	anthracite grey (RAL 7016)

Approvals

VdS-Approval:	G 294043

6. Flame Detectors

6.1. Conventional

Flame detector triple sensor, w/o base	VdS CE

FDF241-9   30-6400005-01-01

Flame detector with 3 infrared sensors and specially developed algorithms for demanding applications. Without base.

- Triple-sensor infrared flame detector
- Two sensors in various wavelengths (4...4.8μm and 5.1...6μm)
- Third sensor for increased resistance to sunlight (0.7...1.1μm)
- Microprocessor-controlled signal evaluation
- Selective evaluation of flicker frequency
- Excellent immunity to false alarms due to specially developed fuzzy algorithms and the latest wavelet diagnosis
- Selectable application algorithms
- Extremely high resistance to: electromagnetic influence, sunlight and heat radiation, humidity and corrosion
- Two different sensitivity and integration stages
- Large angle of vision (min. 90º)
- High IP protection category (IP67)
- Large operating temperature range (-35... +70ºC)
- Detection distance: 27 m with 0° viewing angle (standard) 46 m with 0° viewing angle (increased Current

Operating voltage:	14 to 28 VDC
Output current:	5 mA
Protection class:	IP67
Operating temperature:	-35°C to +70°C
Weight with base:	750 g
Dimensions (HxWxD):	135 x 135 x 77 mm
Material:	aluminum
Color:	pure white (RAL 9010)

Approvals

VdS-Approval:	G 204010
Declaration of Performance (DoP):	0786-CPR-20372

Note:
Note: The base FDFB 291 must be ordered separately ➔ See accessories for Flame Detectors

Flame Detectors

DF1101-Ex   **6400004**

Flame detector for explosion-hazard areas zone 1 & 2 with 3 infrared sensors and special algorithms for demanding applications. Two sensors for detection in various wavelengths (4...4.8µm and 5.1...6µm). Third sensor for increased resistance to sunlight (0.7...1.1µm). Without base.

- Excellent immunity to false alarms due to specially developed fuzzy algorithms and the latest wavelet diagnosis
- Selectable application algorithms
- Extremely high resistance to: electromagnetic influence, sunlight, heat radiation, humidity and corrosion
- Two different sensitivity and integration stages
- Max. 3 detectors per line allowed
- Detection angel: 90

Technical data

Operating voltage:	14 to 28 VDC
Output current:	5 mA
Protection class:	IP67
Operating temperature:	-25°C to +70°C
Dimensions (HxWxD):	135 x 135 x 77 mm
Material:	aluminum
Color:	pure white (RAL 9010)

Approvals

VdS-Approval:	G 299085
Declaration of Performance (DoP):	0786-CPR-20497

Note:
Note: The base DFB 1190 must be ordered separately ➔ See accessories for Flame Detectors

6.2. Accessories for Flame Detectors

Accessories and Spare Parts for ILIA			
Replacement parts for Ilia			
	Detector base for FDF Series	FDFB291	30-6800049-01-01
	Detector base for FDF Series.	DFB1190	6800078
Mounting accessories			
	Rain hood for FDF Series and 1101 Ex.	DFZ1190	6800079
	Mounting bracket for FDF Series and 1101 Ex	MV1	6800080
	The ball and socket joint for FDF Series and 1101 Ex.	MWV1	6800081
Test equipment			
	For testing of the flame detector series DF. Suitable also in explosion hazard areas.	Stabex HF	6900442

7.   Product Type Index

Product Type Index

Optical smoke switch ORS

Product Catalogue 2020

Content

1. Introduction

Smoke switches: timely activation for safe escape

Smoke switches are designed to protect your business from financial loss. In the event of a fire or overheating they automatically switch off machinery and installations, for example in combined heat-and-power stations, wind power plants, switch cabinets, and also in UMTS antennas, vending machines, and ticket dispensers.

The Optical Smoke Switch ORS 142 detects both smouldering and open fires with smoke emission. An additional temperature sensor reacts at a temperature of about 70 °C. In the event of an alarm, a fault, or a power failure, a relay contact opens. The accessories include a mains unit NG 519 and control unit NAG 03 for power supply and additional control tasks

Main Features

Smoke switch systems are very simple fire alarm systems
Heart of the system is the automatic fire detector(s)
The detector is supplied from a power supply unit and activates a relay contact in case of alarm or fault.
Depending on the application, the smoke switch may control:
- door holders for releasing fire doors in case of fire
- fire dampers in air ducts
- smoke exhaust systems
- many others
Smoke switches are approved according to 54/7

2. Smoke and Heat Detectors

Optical smoke switch incl. dust cover

ORS 142   with dust cover   **5000552-0301**

For early detection of smouldering and open fires.

- Auto contamination compensation
- Optical contamination /status display
- Communications capability
- Sensing chamber monitoring
- Potential-free contact
- An additional temperature sensor is triggered at an ambient temperature of 70°
- Line monitoring according to DIN EN 14637

Operating voltage:	18 to 28 VDC
Power consumption:	22 mA
Output voltage:	30 VDC
Output current:	1 A
Protection class:	IP42
Operating temperature:	-20°C to +60°C
Weight:	127 g
Dimensions (ØxH):	80 x 33 mm
Material:	ABS/PC
Color:	pure white (RAL 9010)

Optical smoke switch for wall mounting $\quad$ C E

ORS 142 W $\qquad$ without dust cover $\qquad$ **5000572**

For early detection of smouldering and open fires.
- Auto contamination compensation
- Optical contamination /status display
- Sensing chamber monitoring
- Potential-free contact
- An additional temperature sensor is triggered at an ambient temperature of 70°C.

Operating voltage:	18 to 28 VDC
Power consumption:	22 mA
Output voltage:	24 VDC
Output current:	1 A
Protection class:	IP40
Operating temperature:	-20°C to +75°C
Dimensions (HxWxD):	31,5 x 123 x 33 mm

Accessories		
Cover, standard version (white)	RNO 02 ws	4300735-0001
Cover, standard version (silver)	RNO 02 si	4300735-0002

Smoke and Heat Detectors

ORS 142 Ex   **5000590-0201**

For early detection of smouldering and open fires.
- Auto contamination compensation
- Optical contamination /status display
- Sensing chamber monitoring
- Potential-free contact
- An additional temperature sensor is triggered at an ambient temperature of 70°C.
- Cabel leght 15 cm
- Standard explosion-hazard areas II 2G EEx e m [ib] IIC

Operating voltage:	20 to 28 VDC
Power consumption:	12 mA
Output voltage:	30 VDC
Output current:	1 A
Protection class:	
Smoke switch:	IP42
Connection box:	IP54
Operating temperature:	-20°C to +70°C
Weight:	1300 g

Approvals

Ex Approval:	IBExU04ATEX1105

Accessories		
Detector for ORS 142 Ex (Detector only)	ORS 142 Ex E	4000259-0201

Optical smoke switch for ventilation ducts

VdS CE

ORS 144 K

5000580-0201

Optical smoke switch reacts promptly to smouldering fires as well as to flaming fires that develop smoke.

- Contamination warning
- Auto contamination compensation
- Communications capability
- Sensing chamber monitoring
- NC potential-free contact
- An additional temperature sensor is triggered at an ambient temperature of 70°

Operating voltage:	18 to 28 VDC
Power consumption:	21 mA
Output voltage:	30 VDC
Output current:	1 A
Protection class:	IP42
Operating temperature:	-20°C to +60°C
Weight:	120 g
Dimensions (ØxH):	80 x 33 mm
Material:	ABS/PC
Color:	pure white (RAL 9010)

Approvals

VdS-Approval:	G 203018

Smoke and Heat Detectors

Optical smoke switch for ventilation ducts	VdS CE

ORS 142 K alarm latching **5000558-0201**

Optical smoke switch reacts promptly to smouldering fires as well as to flaming fires that develop smoke.

- Contamination warning
- Auto contamination compensation
- Communications capability
- Sensing chamber monitoring
- NC potential-free contact
- An additional temperature sensor is triggered at an ambient temperature of 70°
- Alarm latching

Operating voltage:	18 to 28 VDC
Power consumption:	21 mA
Output voltage:	30 VDC
Output current:	1 A
Protection class:	IP42
Operating temperature:	-20°C to +75°C
Weight:	120 g
Dimensions (ØxH):	80 x 33 mm
Material:	ABS/PC
Color:	pure white (RAL 9010)

Approvals

VdS-Approval:	G 205139

Differential heat detector

TDS 247   **5100158**

The TDS 247 rate-of-rise detector switch detects open fires with and without smoke.
It is used when interfering operational factors, such as dust, smoke or steam, are to be expected.

- Sensing unite monitoring
- Potential -free contact

Operating voltage:	18 to 28 VDC
Power consumption:	22 mA
Output voltage:	30 VDC
Output current:	1 A
Protection class:	IP42
Operating temperature:	-20°C to +80°C
Weight:	60 g
Dimensions (ØxH):	80 x 33 mm
Material:	ABS/PC
Color:	pure white (RAL 9010)

2.1. Sockets an Accessories for ORS 142 and TDS 247

Mounting socket

143 A	surface mounting / dry rooms	**5000350**
143 W	wall mounting	**5000513**
143 AF	surface mounting / humid rooms	**5000356**
143 UH	flush mounting / hollow ceilings	**5000359**

143 A

143 W

143 AF

143 UH

Mounting socket for smoke and thermo switches
- Cable inlet max. Ø 9 mm

Protection class:	
143 A / 143 W / 143 UH	IP42
143 AF	IP52
Weight:	
143 A	45 g
143 W	50 g
143 AF	52 g
143 UH	43 g
Dimensions (HxWxD):	
143 A	80 x 33 mm
143 W	100 x 170 x 40 mm
143 AF	80 x 33 mm
143 UH	110 x 34 mm
Color:	pure white (RAL 9010)

Accessories ORS 142 and TDS 247

Special sockets

Mounting socket for ORS 144 (for air ducts up to 500 mm)	163 KA	5000585-0201
Mounting socket for ORS 144 (for air ducts from 500 mm)	164 K	5000584-0201

Various spare parts

Mounting console for safe assembly in the lintel area Length: 323 mm	Konsole K 143-S	3510232
Mounting console for professional assembly according DIBt Length: 500 mm	Konsole K 143-K	3510233
Protection basket (for all SecuriStar detector series and ORM130)	SRS 01	5000586

Connection module
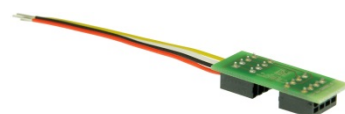
AM 142   **31-5700002-01-01**

Module for manual call points, Smoke and thermal switches. The connection module is required to DIN EN 14637 if the line is monitored.
The FSZ Basis already includes two connection modules.
- Termination resistors: 2 x 43 kOhm

3. LRS Ventilation Duct Smoke Switch System

Ventilation Duct Smoke Switch System	VdS CE

LRS 01　　　　with ORS 210　　　　**5000605-0201**

The relay contacts of the ORS 210 optical smoke switch in the LRS 01 open when there is an alarm, heavy contamination, a fault or a power failure.

Operating voltage:	18 to 28 VDC
Power consumption:	22 mA
Protection class:	IP54
Operating temperature:	-20°C to +75°C
Weight:	470 g
Dimensions (HxWxD):	250 x 135 x 100 mm
Color:	blue

Approvals

VdS-Approval:	G 207083

Accessories		
Detector for LRS01/02 (Replacement)	ORS 210	5000614-0201

Ventilation Duct Smoke Switch System	VdS CE

LRS 02　　　　with ORS 210　　　　**5000619-0201**

The relay contacts of the ORS 210 optical smoke switch in the LRS 02 open when there is an alarm, heavy contamination, a fault or a power failure.
-   Alarm reset button

Operating voltage:	21,6 to 28 VDC
Power consumption:	30 mA
Protection class:	IP54
Operating temperature:	-20°C to +60°C
Weight:	483 g
Dimensions (HxWxD):	370 x 370 x 100 mm
Color:	blue

Approvals

VdS-Approval:	G 207084

Accessories		
Detector for LRS01/02 (Replacement)	ORS 210	5000614-0201

LRS Ventilation Duct Smoke Switch System

Ventilation Duct Smoke Switch System

LRS 03   with ORS 220   **5000618-0201**

The relay contacts of the ORS 210 optical smoke switch in the LRS 02 open when there is an alarm, heavy contamination, a fault or a power failure.
- Alarm reset button

Operating voltage:	16 to 28 VDC
Power consumption:	30 mA
Protection class:	IP54
Operating temperature:	-20°C to +60°C
Weight:	483 g
Dimensions (HxWxD):	250 x 135 x 100 mm
Color:	blue

Approvals

VdS-Approval:	G 207085

Accessories		
Detector for LRS03 (Replacement)	ORS 220	5000615-0201

Ventilation Duct Smoke Switch System Ex-Zones

LRS 03 230V   with ORS 220   **31-5000007-01-01**

The relay contacts of the ORS 220 optical smoke switch in the LRS 03 230V open when there is an alarm, heavy contamination, a fault or a power failure.
- Alarm reset button
- External alarm button
- Including external power supply NAG 03

Operating voltage:	230 VDC
Power consumption:	mA
Protection class:	IP54
Operating temperature:	-20°C to +60°C
Weight:	2100 g
Dimensions (HxWxD):	520 x 135 x 105 mm
Color:	blue

Approvals

VdS-Approval:	G 207085

Accessories		
Detector for LRS03 (Replacement)	ORS 220	5000615-0201

Ventilation Duct Smoke Switch System Ex-Zones

LRS 04 Ex   with ORS 221 Ex   **31-5000006-01-01**

The relay contacts of the ORS 210 optical smoke switch
in the LRS 02 open when there is an alarm, heavy
contamination, a fault or a power failure.
- Alarm reset button

Operating voltage:	20 to 28 VDC
Power consumption:	12 mA
Protection class:	IP54
Operating temperature:	-20°C to +70°C
Weight:	2740 g
Dimensions (HxWxD):	520 x 135 x 105 mm
Color:	blue

Approvals

Ex-Approval:	PTB 01 ATEX 1104

Accessories		
Detector for LRS04 Ex (Replacement)	ORS 221 Ex	31-5000005-01-01

4. RS Bus System

RZA 142 AP **5500034**

For a clear status display of all connected smoke switches. With potential-free relays for each status message, for connection to the building management system.

Operating voltage:	18 to 28 VDC
Power consumption:	120 mA
Output voltage:	30 VDC
Output current:	1 A
Protection class:	IP42
Operating temperature:	-20°C to +70°C
Dimensions (ØxH):	80 x 33 mm
Color:	pure white (RAL 9010)

5. Power Supplies and Release Units

FSZ Base

DIBt | VdS | CE

FSZ Basis

31-5400002-01-02

The FSZ base is power supply, controller, alarm memory and reset button in one.
With approved smoke switches and door holding magnets to form a lock system for the control of fire and smoke protection doors and gates.

- Built-in reset button
- Operation, alarm and fault indication
- Selectable alarm storage
- Selectable line monitoring
- Attractive design
- Potential-free changer

Operating voltage:	230 V AC
Output voltage:	24 VDC
Output current:	0,4 A
Protection class:	IP65
Operating temperature:	-10°C to +50°C
Weight:	420 g
Dimensions (HxWxD):	146 x 146 x 60,5 mm
Material:	ABS/PC
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G 213091

Accessories		
FSZ insertion, English 10 pcs	FSZ VE 10 EN	31-6800001-01-01

FSZ Pro	DIBt VdS CE

FSZ Pro   **31-5400003-01-01**

The FSZ pro is a power supply, controller, alarm memory and reset button in one.
With approved smoke switches and door holding magnets to form a lock system for the control of fire and smoke protection doors and gates.

- Built-in reset and manual release button
- Possibility to connect external reset and manual release button
- Operation, alarm and fault indication
- Selectable alarm storage
- Selectable line monitoring
- Integtrated sounder (65 dB(A) @1 m)
- VdS approved according DIN EN 14637
- Optional energy storage via additional module
- Attractive design
- Potential-free changer (2 pcs)

Operating voltage:	230 V AC
Output voltage:	24 VDC
Output current:	0,9 A
Protection class:	IP65
Operating temperature:	-10°C to +45°C
Weight:	420 g
Dimensions (HxWxD):	146 x 146 x 60,5 mm
Material:	ABS/PC
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G-No. pending

Accessories		
FSZ insertion, English 10 pcs	FSZ VE 10 EN	31-6800001-01-01
Energy storage module	ESM Pro	31-5400004-01-01

Hold-open control unit

DIBt VdS CE

FSZ Kompakt ws	white	**31-5400007-05-01**
FSZ Kompakt si	silver	**31-5400007-04-01**

The FSZ Compact is a compactly designed hold-open control unit suitable for use on fire and smoke protection doors.
- Very small and compact design
- Visual status indicator
- Mounting on the wall, lintel and door frames
- Connectable alarm memory
- Connectable line surveillance

Operating voltage:	230 V AC
Output voltage:	24 VDC
Output current:	0,46 A
Protection class:	IP40
Operating temperature:	-20°C to +45°C
Weight:	102 g
Dimensions (HxWxD):	35 x 127 x 36 mm
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G 217098

Smoke switch control unit

DIBt VdS CE

RSZ Kompakt Set ws	white	**31-5400007-05-01**
RSZ Kompakt Set si	silver	**31-5400007-04-01**

The FSZ Compact is a compactly designed hold-open control unit suitable for use on fire and smoke protection doors.
- Very small and compact design
- Visual status indicator
- Mounting on the wall, lintel and door frames
- Connectable alarm memory
- Connectable line surveillance

Operating voltage:	230 V AC
Output voltage:	24 VDC
Output current:	0,46 A
Protection class:	IP40
Operating temperature:	-20°C to +45°C
Weight:	102 g
Dimensions (HxWxD):	35 x 127 x 36 mm
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G-No. pending

Power Supplies and Release Units

DIBt VdS CE

LRZ Basis

31-5400005-01-02

The ventilation smoke switch control panel LRZ Basis is used for the safe power supply of ventilation smoke switch systems LRS01, LRS02;LRS03 and ORS 144K.
For ventilation systems.

- Built-in reset button
- Operation, alarm and fault indication
- Selectable alarm storage
- Selectable line monitoring
- Attractive design
- Potential-free changer

Operating voltage:	230 V AC
Output voltage:	24 VDC
Output current:	0,4 A
Protection class:	IP54
Operating temperature:	-10°C to +50°C
Weight:	420 g
Dimensions (HxWxD):	146 x 146 x 60,5 mm
Material:	PC/ABS
Color:	signal white (RAL 9003)

Approvals

VdS-Approval:	G-No. pending

5.1. Accessories for Power Supplies

Connection Box 24 V	DIBt CE

FAD 01   **5700103**

The hold-open system connection box FAD 01 can be expanded with an SAB 04.
With the NAG 04 several FAD 01 units, all connected hold-open systems, for example, in a stairwell, can be triggered if one of the fire switches is contacted.

Operating voltage:	23 to 25 V DC
Output voltage:	24 VDC
Output current:	0,9 A
Protection class:	IP30
Operating temperature:	+5°C to +40°C
Dimensions (HxWxD):	146 x 146 x 60,5 mm
Material:	polycarbonat
Color:	pure white (RAL 9010)

Accessories for Power Supplies

Control and indication boards

	Signaling and Indication board (for NG 519, NAG 03/04, FAD 01)	SAB 04 Set	4400043
	Door control board max. 1 A	TSK 03	5300680-0201

➔ **Please check Securiton SecuriFire Catalogue for Back up Batteries.**

6. Door Holding

6.1. Magnets

Door holding magnet	DIBt CE

THM 413   (490 N / 63 mA)   **6500002**

Door holding magnet with covered connection terminals. The THM 413 is provided with a spark-suppression diode (free wheeling diode) to protect the contacts against premature erosion and voltage surges, plus a reverse polarity protection diode.

- Compatible to the door magnet support ASS 55.
- No remanence
- Integral spark-suppression diode
- Polarity reversal protection
- For floor mounting
- Holding force: 490N
- Magnet Ø: 50mm

Operating voltage:	24 VDC
Power consumption:	63 mA
Protection class:	IP40
Operating temperature:	0°C to +50°C
Weight:	800 g
Dimensions (HxWxD):	120 x 121 x 86 mm
Color:	pure white (RAL 9010)

Approvals

Declaration of Performance (DoP):	CPR-31-13-500

Door holding magnet

THM 425	(686 N / 63 mA)	**6500016**
THM 425-1	(1372 N / 63 mA)	**6500020**

Door holding magnet with covered connection terminals. The THM 425 is provided with a spark-suppression diode (free-wheeling diode) to protect the contacts against premature erosion and voltage surges, plus a reverse polarity protection diode.

- THM 425 compatible to the door magnet support ASS 65
- THM 425-1 compatible to the door magnet support ASS 75
- For floor mounting
- Holding force:
  THM 425   686 N
  THM 425-1   1372 N
- Magnet Ø
  THM 425   60 mm
  THM 425-1   70 mm

THM 425

THM 425-1

Operating voltage:	24 VDC
Power consumption:	63 mA
Protection class:	IP40
Operating temperature:	0°C to +50°C
Weight:	
THM 425	500 g
THM 425-1	1000 g
Dimensions (HxWxD):	
THM 425	65 x 93 x 26 mm
THM 425-1	75 x 97 x 43 mm
Color:	silver / black

Approvals

Declaration of Performance (DoP):	
THM 425	CPR-32-13-502
THM 425-1	CPR-31-13-501

Door Holding

THM 433	(490 N / 63 mA)	**6500096**
THM 433-1	(1372 N / 63 mA)	**6500097**

THM 433

THM 433-1

Door holding magnet with covered connection terminals.
The THM 433 is provided with a spark-suppression diode
(free-wheeling diode) to protect the contacts against
premature erosion and voltage surges, plus a reverse
polarity protection diode.
- Compatible to the door magnet support ASS 55
- For floor mounting
- Holding force:
  - THM 433   490 N
  - THM 433-1   1372 N
- Magnet Ø:
  - THM 433   50 mm
  - THM 433-1   70 mm

Operating voltage:	24 VDC
Power consumption:	63 mA
Protection class:	IP40
Operating temperature:	0°C to +50°C
Weight: THM 433	500 g
THM 433-1	1000 g
Dimensions (HxWxD): THM 433	85 x 105 x 38 mm
THM 433-1	85 x 105 x 42,5 mm
Color:	pure white (RAL 9010)

Approvals

Declaration of Performance (DoP): THM 433	CPR-31-13-500
THM 433-1	CPR-31-13-501

Door holding magnet			DIBt CE

THM 439/185	(490 N / 63 mA)		**6500127**
THM 439/335	(490 N / 63 mA)		**6500128**
THM 439/485	(490 N / 63 mA)		**6500129**

The head of the THM 439 can be turned and tilted, making it possible to arrange the pole face parallel to the mounting surface or at right angles to it. The length of the THM 439/... can be adjusted to suit local conditions by shortening its tubular support.

The THM 439/... is provided with a spark-suppression diode (free-wheeling diode) to protect the contacts against premature erosion and voltage surges, plus a reverse polarity protection diode.

- Compatible to the door magnet support ASS 55
- For floor , wall and ceiling mounting
- Holding force: 490 N
- Magnet Ø: 50 mm

Operating voltage:	24 VDC
Power consumption:	63 mA
Protection class:	IP40
Operating temperature:	0°C to +50°C
Weight:	
THM 439/185	630 g
THM 439/335	960 g
THM 439/485485 / 450 mm	1200 g
Dimensions (length / height tilted):	
THM 439/185	185 / 150 mm
THM 439/335	335 / 300 mm
THM 439/485	485 / 450 mm
Color:	silver

Approvals

Declaration of Performance (DoP):	CPR-31-13-500

Door Holding

Door holding magnet

THM 440   (490 N / 63 mA)   **6500109**

Door holding magnet with covered connection terminals. The THM 440 is provided with a spark-suppression diode (free-wheeling diode) to protect the contacts against premature erosion and voltage surges, plus a reverse polarity protection diode.
- Compatible to the door magnet support ASS 55
- For floor mounting
- Holding force: 490 N
- Magnet Ø: 50mm

Operating voltage:	24 VDC
Power consumption:	63 mA
Protection class:	IP40
Operating temperature:	0°C to +50°C
Weight:	420 g
Dimensions (HxWxD):	70 x 70 x 65 mm
Color:	black

Approvals

Declaration of Performance (DoP):	CPR-31-13-500

Door holding magnet

THM 441   (650 N / 330 mA)   **6500130**

A built-in heating system makes the THM 441 suitable for extremely low temperatures and it is therefore used in cold stores (refrigerated and deep-frozen products). The THM 441 is provided with a spark-suppression diode (free wheeling diode) to protect the contacts against premature erosion and voltage surges, plus a reverse polarity protection diode.
- Compatible to the door magnet support ASS 55
- Magnet and counter plates are nickel-plated.
- For floor mounting
- Holding force: 650 N
- Magnet Ø: 50mm

Operating voltage:	24 VDC
Power consumption:	330 mA
Protection class:	IP65
Operating temperature:	-40°C to +20°C
Weight:	450 g
Dimensions (HxWxD):	70 x 106 x 65 mm
Color:	black

Door holding magnet

THM 442

THM 443

| **THM 442** | (700 N / 63 mA) | **6500131** |
| **THM 443** | (1372 N / 63 mA) | **6500132** |

This electromagnetic door holder/closer with its IP 65 ingress protection is therefore suitable for use in an arduous environment and in Zone 2 hazardous areas. It is provided with a spark-suppression diode (free wheeling diode) to protect the contacts against premature erosion and voltage surges, plus a reverse polarity protection diode.

- Compatible to the door magnet support ASV 65
- For wall mounting
- Holding force:
  THM 442   700 N
  THM 443   1372 N
- Magnet Ø:
  THM 442   60 mm
  THM 443   70 mm

Operating voltage:	24 VDC
Power consumption:	63 mA
Protection class:	IP65
Operating temperature:	0°C to +50°C
Weight: THM 442	600 g
THM 443	900 g
Dimensions (HxWxD): THM 442	75 x 106 x 38 mm
THM 443	75 x 119 x 43 mm
Color:	black

Approvals

Declaration of Performance (DoP): THM 422	CPR-31-13-503
THM 443	CPR-31-13-501

Door Holding

DIBt CE

THM 444   (1800 N / 330 mA)   **6500133**

The THM 444 is suitable for use under arduous conditions. It is used princinpally for outdoor applications and in Zone 2 hazardous areas.
The THM 444 is provided with a spark-suppression diode (free wheeling diode) to protect the contacts against premature erosion and voltage surges, plus a reverse polarity protection diode.

- Compatible to the door magnet support AFV 75
- For wall mounting
- Holding force: 1800 N
- Magnet Ø: 75mm

Operating voltage:	24 VDC
Power consumption:	330 mA
Protection class:	IP65
Operating temperature:	-25°C to +50°C
Weight:	950 g
Dimensions (HxWxD):	91 x 116 x 80 mm
Color:	black

Door holding magnet for Ex-applications

⟨Ex⟩ CE

THM 445 Ex   (1568 N / 125 mA)   **6500139**

The THM 445 Ex is provided with a spark-suppression diode (free wheeling diode) to protect the contacts against premature erosion and voltage surges, plus a reverse polarity protection diode.
The THM 445 Ex electromagnetic door retainer is encapsulated and therefore needs no Zener barrier or isolating transformer.
- for installation in zones 1 and 2 designated areas
- ATEX certified
- For wall mounting
- Holding force: 1568 N
- Magnet Ø: 75mm

Operating voltage:	24 VDC
Power consumption:	330 mA
Protection class:	IP65
Operating temperature:	-20°C to +40°C
Weight:	1260g
Dimensions (HxWxD):	75 x 105 x 52 mm
Color:	black

Approvals

Ex Approval:	PTB 03 ATEX 2005 X

Accessories		
Connexion box for Ex-applications	Ex-Box	6900360

Door Holding

Door holding magnet			DIBt CE

	THM 446 /63 mA)	(700 N (700 N / 63 mA)	**6500146**
	THM 447 63 mA)	(1372 N / (1372 N / 63 mA)	**6500145**

The THM 446 and THM 447 electromagnetic door retainers are equipped with a hall sensor which monitors the magnetic flux and signals whether the door is retained by the magnet, via an additional output (open collector). This signal can be forwarded to a superior station.

The THM 446 is provided with a spark-suppression diode (freewheeling diode) to protect the contacts against premature erosion and voltage surges, plus a reverse polarity protection diode.

- Compatible to the door magnet support ASV 65
- Electronic monitoring of magnetic flux
- For wall mounting
- Holding force:
  THM 446   700 N
  THM 447   1372 N
- Magnet Ø:
  THM 446   60 mm
  THM 447   70 mm

Operating voltage:	24 VDC
Power consumption:	63 mA
Protection class:	IP65
Operating temperature:	0°C to +50°C
Weight: THM 446 THM 447	600 g 900 g
Dimensions (HxWxD): THM 446 THM 447	75 x 106 x 38 mm 75 x 119 x 43 mm
Color:	black

Approvals

Declaration of Performance (DoP): THM 446 THM 447	CPR-31-13-503 CPR-31-13-501

6.2. Supports

Door Magnets Supports			
Flexible door magnet support (galvanized) Slewing range of 20°			
	Door magnet support for THM 413, 433, 439, 440, BX-MDH Dimensions (øxH): 55 x 18 mm	ASS 55	6500023
	Door magnet support for THM 425 Dimensions (øxH): 65 x 23 mm	ASS 65	6500024
	Door magnet support THM 425-1 und 433-1 Dimensions (øxH): 75 x 26 mm	ASS 75	6500025
Adjustable door magnet support (galvanized) Slewing range of 2x60°			
	Adjustable door magnet support for THM 413, 433, 439, 440, BX-MDH Dimensions (øxH): 55 x 50 mm	AFS 55	6500102
	Adjustable door magnet support for THM 425 Dimensions (øxH): 65 x 55 mm	AFS 65	6500178
	Adjustable door magnet support for THM 425, 425-1, 433-1 Dimensions (øxH): 75 x 56 mm	AFS 75	6500103
Telescope door magnet support (galvanized) Slewing range of 20°			
	Telescope door magnet support for THM 413, 433, 439, 440, BX-MDH Dimensions (øxH): 55 x 79 mm	ATS 55	6500100
	Adjustable door magnet support for THM 425, 425-1, 433-1 Dimensions (øxH): 75 x 84 mm	ATS 75	6500101
Door magnet support (galvanic nickel plated) Slewing range of 20°			
	Door magnet support for THM 441 Dimensions (øxH): 55 x 18 mm	ASV 55	6500134
	Door magnet support for THM 442, 446 Dimensions (øxH): 65 x 23 mm	ASV 65	6500136
	Door magnet support for THM 443, 445Ex, 447 Dimensions (øxH): 75 x 26 mm	ASV 75	6500137
Adjustable door magnet support (galvanic nickel plated) Slewing range of 2x60°			
	Adjustable door magnet support for THM 441 Dimensions (øxH): 55 x 50 mm	AFV 55	6500135
	Adjustable door magnet support for THM 442/3/4/5 Ex/6/7 Dimensions (øxH): 75 x 56 mm	AFV 75	6500138
Door magnet support (galvanic nickel plated) Slewing range of 20°			
	Telescope door magnet support for THM 442/3/4/5 Ex/6/7 Dimensions (øxH): 75 x 84 mm	ATV 75	6500140

7. Manual Release Buttons

Manual release button	CE

HAT 02   **6500143**

HAT 03   for humid areas   **6500142**

HAT 02

The HAT02 Manual Actuation Buttons allow manual triggering of hold-open devices, e.g. permanent door magnets on fire doors.

Operating voltage:	30 VDC
Power consumption:	22 mA
Protection class: HAT 02	IP20
HAT 03	IP44
Operating temperature:	-20°C to +75°C
Dimensions (HxWxD):	250 x 135 x 100 mm
Color:	grey / red

HAT 03

Manual release button for Ex-Application	⟨Ex⟩

Drucktaster 422 Ex   **6500141**

The 422 Ex Manual Actuation Button allows manual triggering of hold-open devices, e.g. permanent door magnets on fire doors.
It is suitable for use in Ex-zones 1 and 2 as well as in areas where an enclosure rating of IP 65 is required.
Ex enclosure rating: EEx edm IIC T6

Operating voltage:	24 VDC
Power consumption:	10 mA
Protection class:	IP65
Operating temperature:	-20°C to +40°C
Dimensions (HxWxD):	91 x 88,5 x 81 mm
Color:	black

Approvals

Ex Approval:	PTB 00 ATEX 1068

Manual release button $\quad$ CE

DKT 01 ge	yellow	**6200106**
DKT 01 gr	grey	**6200115**

The DKT 01 provides manual control for mechanical smoke evacuation and smoke alarm systems as well as for hold-open systems. It is manly used where an unintentional or unauthorized closure of a gap is to be prevented.

Operating voltage:	24 VDC
Power consumption:	10 mA
Protection class:	IP20
Operating temperature:	-20°C to +75°C
Dimensions (HxWxD):	130 x 130 x 34 mm
Color:	yellow (RAL1018)
	grey (RAL7035)

Manual release button $\quad$ VdS $\quad$ CE

DKT 02 ge	yellow	**6200107**
DKT 02 gr	grey	**6200118**
DKT 02 or	orange	**6200246**

The DKT 02 is used to trigger alarms manually, to control smoke and fire dampers in ventilation ducts or hold-open systems that require resetting.
It is used wherever inadvertent activation of the alarm button shall be prevented.

Operating voltage:	24 VDC
Power consumption:	10 mA
Protection class:	IP20
Operating temperature:	-20°C to +75°C
Dimensions (HxWxD):	130 x 130 x 34 mm
Color:	yellow (RAL1018)
	grey (RAL7035)

8. Sounders / Signalling and Testing Devices

➜ **Please check Securiton SecuriFire Catalogue**

9. Product Type Index

Product Type Index

External power supply unit

Product Catalogue 2020

Content

1. Introduction

It is used to supply peripheral devices with battery backed DC power in conformance with standards, for devices which cannot be supplied with power by the fire alarm control panel's power supply (e.g. smoke aspirating systems special detectors with a high quiescent current consumption).

Standards, Guidelines and Approval

The supplying of fire detection and fire alarm systems and peripheral devices with power is subject to very strict regulations, e.g. the power supply unit of every fire alarm control panel is tested separately in accordance with EN 54-4 and special VdS directives.

2. Power Supply Units

<div style="background:green">Cabinet with power supply 24V/3A   VdS   CE</div>

BE-PSE03-C

20-4000109-01-03

With a built-in BE-PSU03-OF power supply unit, 5 monitored and an optional 5 additional output fuses. The cabinet includes space for fitting two rechargeable cells (max. 26 Ah). An input/output module can be fitted on the top-hat rail (for connection to the fire alarm control panel). The four LEDs on the front side of the unit are used for displaying the operating state.

Mains voltage / Frequency:	230 (-15%/+10%) VAC / 47 to 63 Hz
Power consumption:	90 VA
Output voltage:	24 (21,6 to 28,3 ±0,4%) VDC
Output current:	3 A
Protection class:	IP30
Operating temperature:	-5°C to +40°C
Weight of basic version:	7,5 kg (w/o. battery)
Dimensions (HxWxD):	608 x 464 x 145 mm
Material:	Sheet steel
Color:	light grey (RAL 7035)

Approvals

VdS-Approval:	G 209170
Declaration of Performance (DoP):	0786-CPD-20874

Accessories		
Basis-fuse board	BE-FIB05-C	20-4000113-01-02

Cabinet with power supply 24V/12A

BE-PSE12-C

20-4000100-01-02

With a built-in BE-PSU12-OF power supply unit, 10 monitored and an optional 10 additional output fuses. The cabinet includes space for fitting two rechargeable cells (max. 65 Ah). An input/output module can be fitted on the top-hat rail or directly connected to the power supply unit (for connection to the fire alarm control panel). The 4 LEDs on the front side of the unit are used for displaying the operating state.

Mains voltage / Frequency:	230 (-15%/+10%) VAC / 47 to 63 Hz
Power consumption:	380 VA
Output voltage:	24 (21,6 to 28,3 ±0,4%) VDC
Output current:	12 A
Protection class:	IP30
Operating temperature:	-5°C to +40°C
Weight of basic version:	12,5 kg (w/o. battery)
Dimensions (HxWxD):	608 x 464 x 213 mm
Material:	Sheet steel
Color:	light grey (RAL 7035)

Approvals

VdS-Approval:	G 209171
Declaration of Performance (DoP):	0786-CPD-20875

Accessories		
Basis-fuse board	BE-FIB10-C	20-4000107-01-02

Power Supply Units

Cabinet with power supply 24V/3A   VdS CE

BE-PSE03-P

20-4000110-01-03

With built-in BE-PSU03-CF power supply unit, 5 monitored and optional 5 extra output fuses, as well as all clips required for connecting the peripherals and the rechargeable cells. The cabinet includes space for fitting two rechargeable cells (max. 45 Ah). An input/output module can be fitted next to the power supply unit (for connection to the fire alarm control panel). 8 pcs. M16 fitting screws and 4 pcs. M25/M16 reduction pieces supplied.

Mains voltage / Frequency:	
	230 (-15%/+10%) VAC / 47 to 63 Hz
Power consumption:	90 VA
Output voltage:	24 (21,6 to 28,3 ±0,4%) VDC
Output current:	3 A
Protection class:	IP54
Operating temperature:	-5°C to +40°C
Weight of basic version:	25,5 kg (w/o. battery)
Dimensions (HxWxD):	500 x 500 x 300 mm
Material:	Sheet steel
Color:	light grey (RAL 7035)

Approvals

VdS-Approval:	G 209172
Declaration of Performance (DoP):	0786-CPD-20876

Accessories		
Basis-fuse board	BE-FIB05-P	20-4000117-01-02

Cabinet with power supply 24V/12A

VdS CE

BE-PSE12-P45

20-4000101-01-02

With built-in BE-PSU12-CF power supply unit, 10 monitored and optional 10 extra output fuses, as well as including all clips required for connecting the peripherals and the rechargeable cells. The cabinet includes space for fitting two rechargeable cells (max. 45 Ah). An input/output module can be fitted next to the power supply unit (for connection to the fire alarm control panel). 12 pcs. M16 fitting screws and 8 pcs. M25/M16 reduction pieces supplied.

Mains voltage / Frequency:	230 (-15%/+10%) VAC / 47 to 63 Hz
Power consumption:	380 VA
Output voltage:	24 (21,6 to 28,3 ±0,4%) VDC
Output current:	12 A
Protection class:	IP54
Operating temperature:	-5°C to +40°C
Weight of basic version:	27,5 kg (w/o. battery)
Dimensions (HxWxD):	500 x 500 x 300 mm
Material:	Sheet steel
Color:	light grey (RAL 7035)

Approvals

VdS-Approval:	G 209173
Declaration of Performance (DoP):	0786-CPD-20877

Power Supply Units

BE-PSE12-P170

20-4000102-01-02

With built-in BE-PSU12-CF power supply unit, 10 monitored and optional 10 extra output fuses, as well as including all clips required for connecting the peripherals and the rechargeable cells. The cabinet includes space for fitting four rechargeable cells (max. 85 Ah). An input/output module can be fitted above the power supply unit (for connection to the fire alarm control panel). 12 pcs. M16 fitting screws and 8 pcs. M25/M16 reduction pieces supplied.

Mains voltage / Frequency:	230 (-15%/+10%) VAC / 47 to 63 Hz
Power consumption:	380 VA
Output voltage:	24 (21,6 to 28,3 ±0,4%) VDC
Output current:	12 A
Protection class:	IP54
Operating temperature:	-5°C to +40°C
Weight of basic version:	64,5 kg (w/o. battery)
Dimensions (HxWxD):	1000 x 800 x 300 mm
Material:	Sheet steel
Color:	light grey (RAL 7035)

Approvals

VdS-Approval:	G 209173
Declaration of Performance (DoP):	0786-CPD-20877

Cabinet with power supply 2x24V/12A

VdS · CE

BE-PSE24-P170

20-4000103-01-02

With two built-in BE-PSU12-CF (2 x 12A) power supply units, 10 monitored and optionally up to 3 x 10 extra output fuses, as well as including all clips required for connecting the peripherals and the rechargeable cells. The cabinet includes space for fitting up to four rechargeable cells (max. 85 Ah). An input/output module can be fitted above the power supply units (for connection to the fire alarm control panel). 12 pcs. M16 fitting screws and 8 pcs. M25/M16 reduction pieces supplied.

Mains voltage / Frequency:	
	230 (-15%/+10%) VAC / 47 to 63 Hz
Power consumption:	380 VA
Output voltage:	24 (21,6 to 28,3 ±0,4%) VDC
Output current:	12 A
Protection class:	IP54
Operating temperature:	-5°C to +40°C
Weight of basic version:	64,5 kg (w/o. battery)
Dimensions (HxWxD):	1000 x 800 x 300 mm
Material:	Sheet steel
Color:	light grey (RAL 7035)

Approvals

VdS-Approval:	G 209173
Declaration of Performance (DoP):	0786-CPD-20877

3. Power Supply Modules

<table>
<tr><td colspan="3">Power Supply Unit 24V/1,6A</td><td>VdS</td><td>C E</td></tr>
</table>

BE-PSE01

20-4000121-01-03

BE-PSE01-IOM

20-4000121-02-03

The power supply equipment BE-PSE01 has an output voltage of 24 V and an output current of 1,6 A. It is primarily intended for us in automatic fire detection and fire alarm systems for battery-buffered DC supplying of peripheral devices, which for power consumption reasons cannot be supplied by the fire alarm control panel's power supply unit (e.g. sirens or holding magnets).
The power supply equipment BE-PSE01 is optionally available with a built-in Input/output module, under the name BE-PSE01-IOM.

Mains voltage / Frequency:	
	230 (-15%/+10%) VAC / 47 to 63 Hz
Power consumption:	60 VA
Output voltage:	24 (21,6 to 28,3 ±0,4%) VDC
Output current:	1,6 A
Protection class:	IP30
Operating temperature:	-5°C to +40°C
Weight of basic version:	3,2 kg (incl. battery)
Dimensions (HxWxD):	204 x 200 x 80 mm
Material:	Sheet steel
Color:	light grey (RAL 7035)

Approvals

VdS-Approval:	G 211063
Declaration of Performance (DoP):	0786-CPD-21076

Note:
Two 2,3 Ah batteries are included.

Power Supply Unit 24V/1,6A

VdS **C E**

BE-PSE02　　　　　　　　　　　　　　　　　　　20-4000125-01-01

BE-PSE02-IOM　　　　　　　　　　　　　　　　20-4000125-02-01

The power supply equipment BE-PSE02 has an output voltage of 24 V and an output current of 1,6 A. It is primarily intended for us in automatic fire detection and fire alarm systems for battery-buffered DC supplying of peripheral devices, which for power consumption reasons cannot be supplied by the fire alarm control panel's power supply unit (e.g. sirens or holding magnets).
The power supply equipment BE-PSE02 is optionally available with a built-in Input/output module, under the name BE-PSE02-IOM.

Mains voltage / Frequency:	
	230 (-15%/+10%) VAC / 47 to 63 Hz
Power consumption:	60 VA
Output voltage:	24 (21,6 to 28,3 ±0,4%) VDC
Output current:	1,6 A
Protection class:	IP30
Operating temperature:	-5°C to +40°C
Weight of basic version:	3,2 kg
Dimensions (HxWxD):	289 x 253 x 129 mm
Material:	Sheet steel
Color:	light grey (RAL 7035)

Approvals

VdS-Approval:	G 220002
Declaration of Performance (DoP):	pending

Note:
Batteries are **not** included.

3.1. Power supplies "closed frame"

Power Supply Unit 24V/3A „closed frame"   VdS   CE

BE-PSU03-CF   **20-4000112-01-02**

It is used to supply peripheral devices with battery backed DC power in conformance with standards, for devices which cannot be supplied with power by the fire alarm control panel's power supply (e.g. smoke aspirating systems special detectors with a high quiescent current consumption). The BE-PSU03 power supply unit has an output voltage of 24 V and an output current of 3 A and is available in 2 different shapes. The CF version is suitable for fitting in an IP 54 wall-mounted cabinet. The mains supply voltage and the battery circuit are constantly monitored, with the loading current of the batteries being temperature-monitored. In the event of an overload, the maximum output current is limited accordingly, and in the event of the voltage falling below the cut-off voltage, low battery protection ensures that automatic load shedding occurs. The device is fitted with potential-free contacts, to allow the operating state to be queried and forwarded onto a superordinated system.

Mains voltage / Frequency:	
	230 (-15%/+10%) VAC / 47 to 63 Hz
Power consumption:	90 VA
Output voltage:	24 VDC
Output current:	3 A
Protection class:	IP20
Operating temperature:	-5°C to +40°C
Weight of basic version:	1 kg
Dimensions (HxWxD):	155 x 75 x 128 mm

Approvals

VdS-Approval:	G 209172
Declaration of Performance (DoP):	0786-CPD-20876

Power Supply Unit 24V/12A „closed frame"

VdS CE

BE-PSU12-CF

20-4000106-01-01

It is used to supply peripheral devices with battery backed DC power in conformance with standards, for devices which cannot be supplied with power by the fire alarm control panel's power supply (e.g. smoke aspirating systems special detectors with a high quiescent current consumption).

The BE-PSU12 power supply unit has an output voltage of 24 V and an output current of 12 A and is available in 2 different shapes. The CF version is suitable for fitting in an IP 54 wall-mounted cabinet. The mains supply voltage and the battery circuit are constantly monitored, with the loading current of the batteries being temperature-monitored. In the event of an overload, the maximum output current is limited accordingly, and in the event of the voltage falling below the cut-off voltage, low battery protection ensures that automatic load shedding occurs. The device is fitted with potential-free contacts, to allow the operating state to be queried and forwarded onto a super ordinated system.

Mains voltage / Frequency:	
	230 (-15%/+10%) VAC / 47 to 63 Hz
Power consumption:	380 VA
Output voltage:	24 VDC
Output current:	12 A
Protection class:	IP20
Operating temperature:	-5°C to +40°C
Weight of basic version:	1,6 kg
Dimensions (HxWxD):	155 x 95 x 183 mm

Approvals

VdS-Approval:	G 209173
Declaration of Performance (DoP):	0786-CPD-20877

3.2. Power supplies "open frame"

Power supply 24V/3A „open frame"   VdS C E

BE-PSU03-OF   **20-4000111-01-02**

It is used to supply peripheral devices with battery backed DC power in conformance with standards, for devices which cannot be supplied with power by the fire alarm control panel's power supply (e.g. smoke aspirating systems special detectors with a high quiescent current consumption).
The BE-PSU12 power supply unit has an output voltage of 24 V and an output current of 12 A and is available in 2 different shapes. The CF version is suitable for fitting in an IP 54 wall-mounted cabinet. The mains supply voltage and the battery circuit are constantly monitored, with the loading current of the batteries being temperature-monitored. In the event of an overload, the maximum output current is limited accordingly, and in the event of the voltage falling below the cut-off voltage, low battery protection ensures that automatic load shedding occurs. The device is fitted with potential-free contacts, to allow the operating state to be queried and forwarded onto a super ordinated system.

Mains voltage / Frequency:	
	230 (-15%/+10%) VAC / 47 to 63 Hz
Power consumption:	90 VA
Output voltage:	24 VDC
Output current:	3 A
Protection class:	IP20
Operating temperature:	-5°C to +40°C
Weight of basic version:	1 kg
Dimensions (HxWxD):	185 x 126 x 120 mm

Approvals

VdS-Approval:	G 209170
Declaration of Performance (DoP):	0786-CPD-20874

Power supply 24V/12A „open frame"

VdS CE

BE-PSU12-OF

20-4000105-01-01

It is used to supply peripheral devices with battery backed DC power in conformance with standards, for devices which cannot be supplied with power by the fire alarm control panel's power supply (e.g. smoke aspirating systems special detectors with a high quiescent current consumption).

The BE-PSU12 power supply unit has an output voltage of 24 V and an output current of 12 A and is available in 2 different shapes. The OF version is suitable for fitting in an IP 30 compact case. The mains supply voltage and the battery circuit are constantly monitored, with the loading current of the batteries being temperature-monitored. In the event of an overload, the maximum output current is limited accordingly, and in the event of the voltage falling below the cut-off voltage, low battery protection ensures that automatic load shedding occurs. The device is fitted with potential-free contacts, to allow the operating state to be queried and forwarded onto a superordinated system.

Mains voltage / Frequency:	
	230 (-15%/+10%) VAC / 47 to 63 Hz
Power consumption:	380 VA
Output voltage:	24 VDC
Output current:	12 A
Protection class:	IP20
Operating temperature:	-5°C to +40°C
Weight of basic version:	1,6 kg
Dimensions (HxWxD):	185 x 176 x 122 mm

Approvals

VdS-Approval:	G 209171
Declaration of Performance (DoP):	0786-CPD-20875

4. Accessories

Power Supply Accessories		
In-/ Output module		
In-/Output module	BX-OI3	20-2100001-01-03
Replacement Fuse		
Fuse 1A FK2/FKS	FKS 1A	MM000499
Fuse 5A FK2/FKS	FKS 5A	MM000500
Fuse 15A FK2/FKS	FKS 15A	MM000501
Various spare parts		
Basis-fuse board	BE-FIB05-C	20-4000113-01-02
Basis-fuse board	BE-FIB10-C	20-4000107-01-02
Basis-fuse board	BE-FIB05-P	20-4000117-01-02
Basis-fuse board	BE-FIB10-P	20-4000115-01-02
External temperature sensor	BE-TSENS	20-4000119-01-01
Measuring adapter for battery current	BE-MAKKU	20-4000120-01-01

Cabinet for additional batteries	

BE-CBE12-C   20-4000104-01-01

For expanding rechargeable cell capacity, with space for fitting two rechargeable cells with max. 65 Ah.

Protection class:	IP30
Operating temperature:	-5°C to +40°C
Weight of basic version:	11 kg (w/o battery)
Dimensions (HxWxD):	608 x 464 x 213 mm

4.1. Batteries

➔ **Please check Securiton SecuriFire Catalogue**

5. Product Type Index

Product Type Index

Notes

Notes

Notes

Notes

Notes