DETECTOMAT
INTERNATIONAL

FIRE ALARM
SYSTEMS

CATALOGUE

DETECTOMAT GMBH
IN AHRENSBURG

Behind Detectomat GmbH, a young, dynamic team works towards the goal of providing high-quality products to the satisfaction of our customers. Our company philosophy also incorporates flexibility and comprehensive customer support.

Founded in 1977, Detectomat GmbH has its roots in Niendorf, Germany, on the coast of the Baltic Sea, and was first dedicated to manufacturing OEM smoke detectors. After its acquisition in 1999 by the Job Group, which has its headquarters in Ahrensburg, and the integration of DBM Brandmeldetechnik GmbH, a completely new series of fire detector based on a number of patents, both for the high-end industrial sector and for the home sector, was developed and manufactured.

As a strong, innovative part of this Group, Detectomat GmbH represents an expert developer, fire detection component manufacturer and total system provider. Its product range includes modules, fire control panels, software, and other items, in addition to state of-the-art fire detectors.

In 2017 the company joined the DEF Network based in Massy, France. Joining forces with the longstanding French company and capitalising on the shared synergy in development and expertise marks a new chapter in 2018 in the Detectomat story.

The DEF Network is a consortium founded by Daniel Lécuyer in 1958 which has since grown to become Europe's largest independent manufacturer for technical system fire protection under the leadership of his son, Philippe Lécuyer.

The Management Board's focus has been on fire detection technology as a core business from the beginning, and as a result the company introduces solid, reliable systems to the market. With its headquarters in France and a strong market presence in 10 additional countries where it maintains its own subsidiaries, the company enjoys a strong foundation for growth.

The DEF Network has been entrusted with a number of sensitive projects, such as equipping the Channel Tunnel and the Louvre in Paris with DEF-developed fire detection technology, and implementing large-scale projects at universities, power plants and airports.

Detectomat – Safety creates trust

Detectomat GmbH focuses on the research, development, manufacture and distribution of pioneering solutions. And with our roots in Germany, you can always count on unparalleled quality.

So what is it that sets us apart?

Rather than focusing on solutions that are already achievable from a technological perspective, we are much more interested in coming up with useful products that off er clear added value for our customers. Our system solutions in the fi elds of fi re detection and protection technology cover a wide range of diff erent applications and are designed to meet the needs of our customers around the world.

What's more, with over 90 employees and a strong network of a wide range of technology partners, we couldn't be in a better position to guarantee long-term protection against fi re and personal injury.

This constant pursuit of perfection is exactly what our custo-mershave come to expect from us; after all, they have to be able to rely on our products and solutions one hundred per cent.

DEF Network – Growing together

The vision: The DEF Network is an independent international net-work of highly specialised companies in the fire protection industry. The products and services of the group cover a wide range of highly complex projects and applications.

The mission: In order to achieve our top aim of protecting you and your property from fire, we offer optimal support to ensure the safe-ty of your employees and buildings in the long term.

The DEF Network has a shared strategy of growing together in order to offer the best service as a team effort within one network, supported by five pillars.

Growing together – RESPECT AND DIVERSITY
As employees of a DEF Network company, we are part of a large DEF team and work together towards the success of the entire network. We treat our colleagues with respect and trust to ensure that every team member feels welcome at work and is able to do their job freely in a working environment where they enjoy equal rights regardless of their background or gender.

Growing together – SIMPLICITY
For straightforward, effective collaboration, the relationships between the companies and their employees must be open and sincere, based on listening to what the other side has to say.

Growing together – PROFESSIONALISM
Through our business experience, quality standards, transparency and commitment to our promises, we strengthen our customers' trust in us.

Growing together – CUSTOMER ORIENTATION
We listen to our customers and understand their needs, and use this necessary skill to develop solutions and cultivate a long-term partnership with our customers.

Growing together – INNOVATION
We encourage entrepreneurial freedom that allows our creativity and innovative skills to flourish.

OUR MISSION
IN DEF NETWORK

Our mission is to secure our customers against fire risks, to offer them service, ensure a long service life for their operating units and and to protect the lives of all users.

We are part of an independent, international network of companies with extensive experience in plant fire protection.

With our products and services, we achieve projects of varying complexity.

OUR ACHIEVEMENTS

Shopping Malls	Prestige	DC & Telecom	Defense
Energy	Education	Accommodation	High-rise building
Office blocks	Industry	Marine	Health
Sports and Leisure	Transport		

DEF NETWORK:
INTERNATIONAL AND INDEPENDENT COMPANY NETWORK OF FIRE SAFETY EXPERTS

For the last 60 years, the men and women in the DEF Network have been committed to saving lives and preserving heritage on a daily basis by offering you innovative, reliable and long-lasting solutions.

As an international and independent company network of fire safety experts and the leading European industrial company on the market, the DEF Network groups together more than 50 companies throughout the world: factories, commercial entities, service companies.

Each of these companies provides its own genetic strands to the DNA for the DEF Network, entirely devoted to protecting you against multiple fire risks. The DEF Network deploys cutting-edge production tools, whilst meeting demanding standards and regulations that are constantly changing.

In addition to investing massively in Research and Development, it takes an active part in French and European work groups aiming to improve and develop standardisation in the field of fire safety.

Through its experts and complementary companies, the DEF Network provides products and services for even the most complex projects.

Like birds flying in a balanced formation, the DEF Network companies rely on each other to move forward.

Respect and diversity
As employees of a DEF Network company, we are part of the large DEF team and contribute to the success of the entire network. In this we act with mutual respect and trust so that everyone feels comfortable in their work and can develop freely in this climate, equally and regardless of their background or gender.

Simplicity
For sincere and effective cooperation, relations between companies and their employees must be open and sincere, based on listening to what the other person has to say.

Professionalism
Through our business experience, our commitment to quality, transparency and compliance our commitments, we build trust with our clients.

Listening to the client
Our ability to listen to our clients and understand their needs enables us to develop solutions for them, we develop solutions for them and thus enable a long-term partnership.

Innovation
We promote entrepreneurial freedom, which enhances our creativity and ability to innovate.

Detectomat is the specialist in the design and manufacturer of fire detection solutions for commercial and industrial applications.
Optimized configuration of each element of the system thanks to precise tools and software.
Our products stand for high quality and application-oriented functions.

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FIRE ALARM SYSTEMS

FIRE ALARM SYSTEMS

The solution for an effective and cost-efficient protection concept

The DC520 fire alarm system combines the latest fire detection technology with a cost-optimised protection concept.

The new D-Loop technology offers great flexibility for early fire detection with a range of detector types and bus-supplied alarm devices for which no additional power supply is required.

Early alerting of people in smaller public, commercial and industrial buildings.

Depending on the building, monitoring areas of up to 12,000 m2 per fire alarm control panel are possible, and these can be divided into different fire sections.

! One system, many benefits

Standard-compliant components, facilitated installation and commissioning, as well as reduced operating and maintenance costs.

SMOKE DETECTORS
DIN EN 54-7

HEAT DETECTORS
DIN EN 54-5

MANUAL CALL POINTS
DIN EN 54-11

FIRE ALARM CONTROL PANEL
DIN EN 54-2, PART 4.3.2

POWER SUPPLY
DIN EN 54-4

WARNING/ SIGNALLING
DIN EN 54-3
DIN EN 54-23

ALARM AND FAULT FORWARDING
OPTIONAL
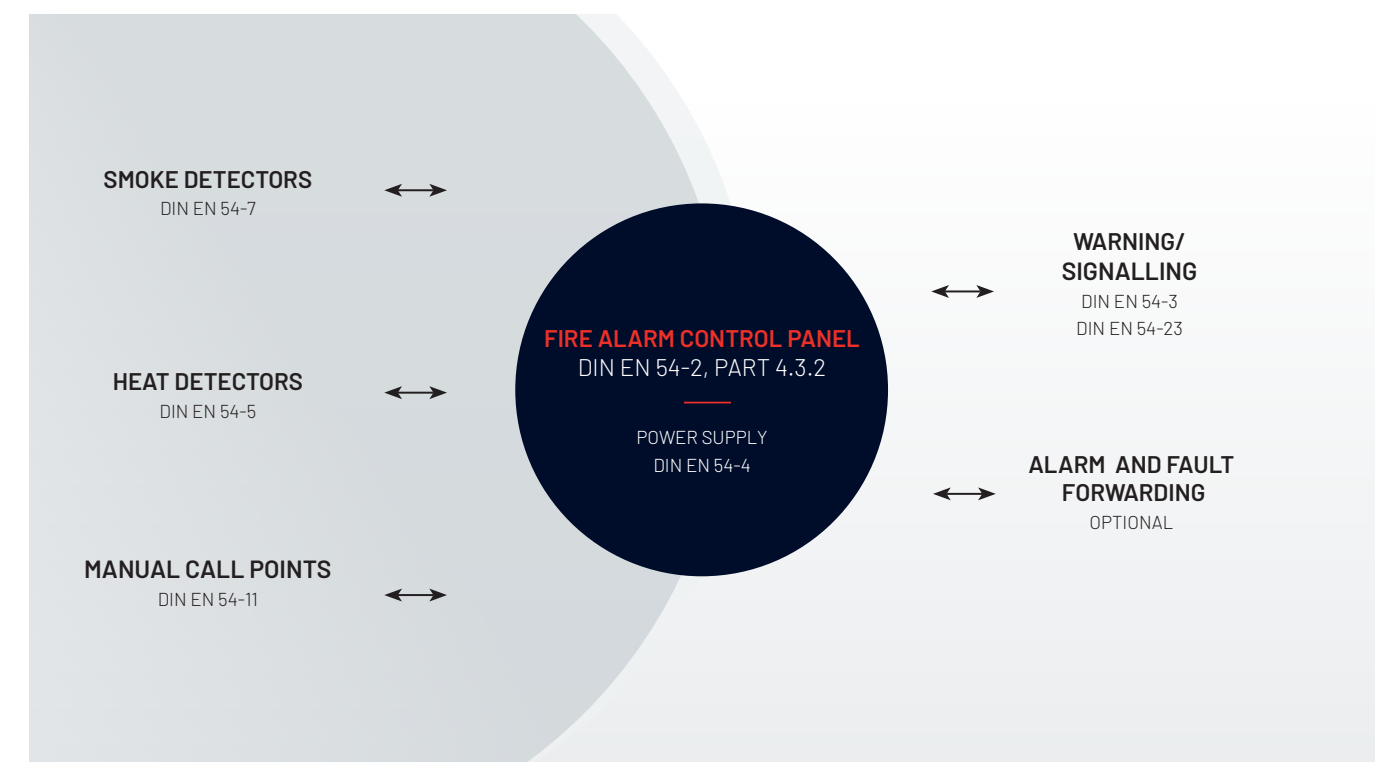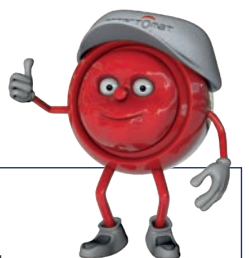
Fire detection / acoustic and visual warnings for at-risk persons and areas / optional forwarding of alerts

The solution for an effective and cost-efficient protection concept

FIELDS OF APPLICATION (EXAMPLES)

Professional fire detection technology for early fire detection and alerting of people in smaller public, commercial and industrial buildings.

NURSERIES, SCHOOLS

ACCOMMODATION ESTABLISHMENTS

RESTAURANTS

Special housing arrangements for the elderly and individuals with physical or cognitive disabilities

SMALLER NURSING HOMES

! OVERVIEW

- Building-specific, individual alerting, acousti and / or visual
- Clear display of the alarm notification on the control panel screen
- Fast identification of the triggered fire detector and the installation location

- Approved components in accordance with the Construction Products Directive / state building regulations
- Simplified and reduced maintenance requirements

D-LOOP TECHNOLOGY

3D MAPSVIEW

3D

Optical smoke detector DL-520 2O

Heat detector DL-520 T

Multisensor detector DL-520 T2O

Manual call point DL-520 MCP E

DC520 S Fire alarm control panel

Visual alarm   Audio alarm

Addressable devices

Manual call point DL-520 MCP WP

IO module DL-520 IOM

Conventional module DL-520-TCM

* USB

RS485

Sounder DL-520-WS-W (white) DL-520-WS-R (red)

Sounder DL-520 BS

Output module for alarm device DL-520-OMS

*Optional forwarding

CONUS Conventional signalling devices

DL-520-CONUS-AB-S
DL-520-CONUS-AB-SF

! EVERYTHING AT A GLANCE

- Max. 3,000 m D-Loop length
- Max. 256 devices per D-Loop
- Max. 512 D-Loop devices per fire alarm control panel
- Intelligent algorithms, resistant against false alarms
- Integrated operating hour counter and analysis

- Powering devices up to 500 mA per D-Loop
- Base technology (screwless terminal)
- Lateral and bottom cable entry points
- Easy to maintain (reduced sensitivity, disconnectable delay)
- Fulfills the requirements of EN 54-13

FIRE ALARM CONTROL PANEL
DC520 S AND DC520 M

DC520 S

Design in plastic housing

Max. 2 loop interface modules
for a total of 512 loop devices

DC520 M

Design in metal housing

Max. 4 loop interface modules
for a total of 512 loop devices

! DC520 Features

- Short installation time

- Clear display and simple operation via colour screen and function keys

- USB interface for simple programming with the DPT software

- 24 LEDs (red/yellow) for single zone indicators

- Integrated loop interface for the connection of D-Loop devices

- Setup can be extended with a loop interface module for a total of 512 loop devices

- Programming of up to 512 detector zones

- Integrated, country-specific special functions

- Standalone version can be configured in different setup levels

- DPT programming software adapted to match the look and feel of the familiar DC3500 tools

SPECIFICATIONS

	DC520 S	DC520 M
Supply voltage	230 V AC (-15%/+10%) – 50/60Hz	
Operating voltage	24 V DC	
Quiescent current	Min. 175 mA (depending on setup)	
Max. total current	3,33 A	
Emergency power supply	Max. 2 x 12 V DC / 12 Ah	Max. 2 x 12 V DC / 17 Ah
Inputs	Two potential-free programmable inputs	
Outputs	Two freely programmable relay outputs (preconfiguration of alarm + fault at factory), optional: two alarm device outputs each with 24 V DC / 1A (with M2SL), switching capacity 30 V DC / 1A	
Interfaces	1 RS 485 interface, 1 USB interface	
Displays	3.5" colour display	
Housing	Plastic, RAL 7035	Metal, RAL 7035
Operating temperature	-5°C to 40°C	
Weight	6 kg without batteries	
Dimensions (H x W x D)	420 x 420 x 138 mm	490 x 490 x 129 mm
CE-CPR-number	1116-CPR-104	
Standards	EN 54-2: 1997 A1: 2006; EN 54-4: 1997 A2: 2006	

AUTOMATIC
FIRE DETECTORS

Uniform design for
all detector types

Uniform external shape for all types, Flat design

Optical smoke detector
DL-520 2O

1116-CPR-098

- Intelligent optical smoke detector with two optical sensors for reliable smoke detection according to EN 54-7

- Integrated, bidirectional loop isolator according to EN 54-17

- Direct connection to the D-Loop

- Individual detector class change possibilities for four different sensitivity levels (software Easy Check DL 500 or DPT)

- Cyclic self-testing through integrated, automatic sensor test function

Heat detector
DL-520 T

1116-CPR-096

- Intelligent heat detector with a thermal sensor and analysis logic for the differential and maximum value trigger according to EN 54-5

- Excellently suited for applications which require early fire detection with thermal monitoring

- Integrated, bidirectional loop isolator according to EN 54-17

- Direct connection to the D-Loop

- Individual analysis of the thermal measurement according to EN 54-5 in the sensitivity levels 1 to 6 adjustable as fixedheat detector (static ⟶ A1S, A2S, BS) or as a differential detector with a maximum threshold (differential and static ⟶ A1R, A2R, BR)

Multisensor detector
DL-520 T2O

1116-CPR-099

- Intelligent multisensor detector with a thermal sensor and two optical smoke sensors according to EN 54-29

- Integrated, bidirectional loop isolator according to EN 54-17

- Direct connection to the D-Loop

- Individual detector class change possibilities for six different sensitivity levels (software Easy Check DL 500 or DPT)

- Highest protection level against false alarms and operational safety through the intelligent linking of the sensor signals

- Cyclic self-testing

- Automatic self-monitoring and contamination detection through an integrated measurement function

! GENERAL DETECTOR SPECIFICATIONS

- Day/night activation with selectable sensitivity
- Detection principles according to EN 54-5/-7/-29
- Fault monitoring for measuring chamber signal and D-Loop electronics
- Automatic or programmable adjustment of the detector sensitivity
- Multi-colour LEDs for alarm (red) and fault (yellow) display
- Integrated, bidirectional isolator according to EN 54-17

- Freely programmable alarm output for activation of a remote indicator
- Integrated event memory
- Optional relay output as additional motherboard in the detector base
- Dimensions H = 62.6 x 104 mm
- Housing white (similar to RAL 9003)

2 LOOP FIRE ALARM CONTROL PANEL DC520 C1 — DC520 S C1

Part-No.: DC-520-S-C1

Compact microprocessor fire control panel for the connection of D-loop fire detection system devices.

- Scalable system design for up to 2 loops
- Clear display and easy operation via colour display and keypad
- USB-Interface for easy programming via DPT-Software
- Connection opportunity for up to 256 D-loop devices and max. 512 D-loop devices per panel
- Integrated Loop - Interface for the connection of up to 256 D-loop devices
- Mounting space for up to 3 optional modules (2 for D-loop devices, 1 for signalling devices)
- Mounting space for optional backplane to mount up to 3 function boards
- Event log for up to 4.096 messages
- 30 characters for individual customer textes
- Up to 512 zones programmable
- Easy programming for up to 128 cause and effects
- Integrated country specific special features

Technical Data	
Supply Voltage	230 V AC (-15%/+10%) – 50/60 Hz
Emergency Supply	2 x 12 V DC /7 Ah, 12 Ah
Quiescent Current	min. 175 mA
Alarm Current	max. 3,33 A depending on load
Output	2 programmable relay outputs (by default for alarm and fault), 2 auxiliary outputs protected , 24 V DC, 350 mA, 2 optional outputs for signalling devices 24 V DC / 1 A (with M2SL)
Ambient Temperature	-5°C to +40°C
Operating Temperature	-5°C to +40°C
Storage Temperature	+5°C to +40°C
Humidity	0% to 93 % (not condensing)
Protection Class	IP 30
Dimensions (H x W x D)	420 mm x 420 mm x 138 mm
Weight	5 kg without batteries
Material	Plastic ABS 5V
Color	RAL 7035 grey
Standards	EN 54-2: 1997 A1: 2006; EN 54-4: 1997 A2: 2006
Remarks	A loop board is included in the standard configuration.
Inputs	2 potential free programmable inputs
Display	3,5" colour display
Interfaces	1 RS 485 Interface, 1 USB Interface
VDS-Approval	

4 LOOP FIRE ALARM CONTROL PANEL DC520 M — DC520 M C1

Part-No.: DC-520-M-C1

Microprocessor controlled fire control panel for the connection of D-loop fire detection system devices.

- Scalable system design for up to 4 loops
- Clear display and easy operation via colour display and keypad
- USB-Interface for easy programming via DPT-Software
- Connection opportunity for up to 256 D-loop devices and max. 512 D-loop devices per panel
- Integrated Loop - Interface for the connection of up to 256 D-loop devices
- Mounting space for up to 5 optional modules (4 for D-loop devices, 1 for signalling devices)
- Mounting space for optional backplane to mount up to 3 function boards
- Event log for up to 4.096 messages
- 30 characters for individual customer textes
- Up to 512 zones programmable
- Easy programming for up to 128 cause and effects
- Integrated country specific special features

Technical Data	
Supply Voltage	230 V AC (-15%/+10%) – 50/60 Hz
Emergency Supply	2 x 12 V DC /7 Ah, 12 Ah, 17Ah
Quiescent Current	min. 175 mA
Alarm Current	max. 3,33 A depending on load
Output	2 programmable relay outputs (by default for alarm and fault), 2 auxiliary outputs protected , 24 V DC, 350 mA, 2 optional outputs for signalling devices 24 V DC / 1 A (with M2SL)
Ambient Temperature	-5°C to +40°C
Operating Temperature	-5°C to +40°C
Storage Temperature	+5°C to +40°C
Humidity	0% to 93 % (not condensing)
Protection Class	IP 30
Dimensions (H x W x D)	420 mm x 420 mm x 138 mm
Weight	10 kg without batteries
Material	galvanized and painted sheet stee
Color	RAL 7035 grey
Standards	EN 54-2: 1997 A1: 2006; EN 54-4: 1997 A2: 2006
Remarks	A loop board is included in the standard configuration.
Inputs	2 potential free programmable inputs
Display	3,5" colour display
Interfaces	1 RS 485 Interface, 1 USB Interface
VDS-Approval	

LANGUAGE KIT DC520 3X FRENCH — DC520 LK FR	LANGUAGE KIT DC520 3X LATVIAN — DC520 LK LV
Part-No.:DC-520-LK-FR	Part-No.:DC-520-LK-LV
LANGUAGE KIT DC520 3X ITALIAN — DC520 LK IT	LANGUAGE KIT DC520 3X ESTONIAN — DC520 LK EE
Part-No.:DC-520-LK-IT	Part-No.:DC-520-LK-EE
LANGUAGE KIT DC520 3X DUTCH — DC520 LK NL	LANGUAGE KIT DC520 3X ROMANIAN — DC520 LK RO
Part-No.:DC-520-LK-NL	Part-No.:DC-520-LK-RO
LANGUAGE KIT DC520 3X CZECH — DC520 LK CZ	LANGUAGE KIT DC520 3X CROATIAN — DC520 LK HR
Part-No.:DC-520-LK-CZ	Part-No.:DC-520-LK-HR
LANGUAGE KIT DC520 3X HUNGARIAN — DC520 LK HU	LANGUAGE KIT DC520 3X ARABIC — DC520 LK AR
Part-No.:DC-520-LK-HU	Part-No.:DC-520-LK-AR
LANGUAGE KIT DC520 3X PORTUIGIS — DC520 LK PT	LANGUAGE KIT DC520 3X BULGARIAN — DC520 LK BG
Part-No.:DC-520-LK-PT	Part-No.:DC-520-LK-BG
LANGUAGE KIT DC520 3X TURKISH — DC520 LK TR	
Part-No.:DC-520-LK-TR	

LANGUAGE KIT DC520 3X FRENCH — DC520 LK FR	LANGUAGE KIT DC520 3X LATVIAN — DC520 LK LV
Part-No.:DC-520-LK-FR	Part-No.:DC-520-LK-LV
LANGUAGE KIT DC520 3X ITALIAN — DC520 LK IT	LANGUAGE KIT DC520 3X ESTONIAN — DC520 LK EE
Part-No.:DC-520-LK-IT	Part-No.:DC-520-LK-EE
LANGUAGE KIT DC520 3X DUTCH — DC520 LK NL	LANGUAGE KIT DC520 3X ROMANIAN — DC520 LK RO
Part-No.:DC-520-LK-NL	Part-No.:DC-520-LK-RO
LANGUAGE KIT DC520 3X CZECH — DC520 LK CZ	LANGUAGE KIT DC520 3X CROATIAN — DC520 LK HR
Part-No.:DC-520-LK-CZ	Part-No.:DC-520-LK-HR
LANGUAGE KIT DC520 3X HUNGARIAN — DC520 LK HU	LANGUAGE KIT DC520 3X ARABIC — DC520 LK AR
Part-No.:DC-520-LK-HU	Part-No.:DC-520-LK-AR
LANGUAGE KIT DC520 3X PORTUIGIS — DC520 LK PT	LANGUAGE KIT DC520 3X BULGARIAN — DC520 LK BG
Part-No.:DC-520-LK-PT	Part-No.:DC-520-LK-BG
LANGUAGE KIT DC520 3X TURKISH — DC520 LK TR	
Part-No.:DC-520-LK-TR	

D-LOOPCARD FOR 1-LOOP — M1BT

Part-No.: **M1BT**

Microprocessor controlled loop interface for DC 510/520 for the uninterruptible and short-circuit-proof use with 256 devices of the series D-Loop.

- 2-wire-system loop with up to 3.000 m loop length
- Easy and flexible installation and initialization via automatic and manual addressing
- Freely configuration of the open collector outputs of the D-Loop devices
- System-plug to connect to the DC 510/520 mother board
- System-socket to connect additional modules
- D-Loop connection via terminal blocks up to 2,5 mm²

Technical Data

Ambient Temperature	-5°C to +40°C
Humidity	0 % to 93 % (not condensing)
Dimensions (H x W x D)	125 mm x 100 mm x 20 mm
Interfaces	1 x D-Loop

SOUNDERCARD 2 LINES — M2SL

Part-No.: **M2SL**

Microprocessor controlled interface for DC 510/520 for the connection of 2 monitored lines for alarming devices with 1A each

- Monitored operation of alarming devices
- Connection of 2 lines for alarming devices for 1 A consumption
- System-plug to connect to the DC 510/520 mother board
- System-socket to connect additional modules
- D-Loop connection via terminal blocks up to 2,5 mm²

Technical Data

Ambient Temperature	-5°C to +40°C
Humidity	0 % to 93 % (not condensing)
Dimensions (H x W x D)	125 mm x 100 mm x 20 mm
Interfaces	2 x alarming line

BACKPLANE FOR DC520 — BPS

Part-No.: **BPS**

- This interface board allows to add 3 optional boards to the mainboard
- Equipped with four 96-pin connectors
- Power supply: From 21 to 29 VDC
- Standby consumption: 0.045A

RELAY MODULE FOR DC520 — M10R-520

Part-No.: **M10R-520**

- Optional board with 10 configurable relays
- Potential free contact (NO/NC)
- Power supply: From 21 to 29 VDC
- Standby consumption: 0.041A
- Interconnection: By pin-connector on the backplane board

UNIVERSAL GATEWAY MODULE FOR DC5200 — MGW-520

Part-No.: **MGW-520**

- Optional board with 2 RS485 communication ports and 2 RJ45 Ethernet communication ports dedicated to supervision
- Power supply: From 21 to 29 VDC
- Standby consumption: 0.080A
- Interconnection: By pin-connector on the backplane board

GATEWAY MODULE FOR DC520 — MGW-520-REP

Part-No.: **MGW-520-REP**

- Optional board with 2 RS485 communication ports
- Power supply: From 21 to 29 VDC
- Standby consumption: 0.080A
- Interconnection: By pin-connector on the backplane board

FIRE BRIGADE MODULE FOR DC520 — MGER-520

Part-No.: **MGER-520**

- Optional board for the transmission of the fire condition or fault condition
- Power supply: From 21 to 29 VDC
- Standby consumption: 0.050A
- Interconnection: By pin-connector on the backplane board

7" TOUCH SCREEN REPEATER TR-BUS — DC-520-REP-TS

Part-No.: **DC-520-REP-TS**

- Addressable repeater panel
- The 7" colour touch screen provides a simple and clear operating view.
- It manages the repetition of the following functions: Fire detection, Evacuation, Safety function
- Power supply: From 16 to 60 VDC
- Standby consumption: 0.030A
- Maximum consumption: 0.2A

DETECTOMAT PROGRAMMING TOOL FOR DC520 — DPT Basic

Part-No.: **DPT-Basic**

With the Detectomat Programming Tool (DPT) you can intuitive handle the programming of your modern fire detection panel DC 520. The DPT offers the programming of cause and effects for every solution and supports you with a full acces into the panel including update opportunities. An USB connection between the panel and the PC is required.

• Windows based software tool with upload and download function for the programming of the functions of the fire control panels of the series DC 520 via PC
• Integrated plausibility check of the configuration according to actual rules and standards
• Option for customer specific texts
• Integrated time function for the time programming of different functions for the fire control panels DC 520
• Clearly arranged Windows user interface with print and export function (Word, Excel)
• Offline programming possible - use with panel requires activation license

LOOP PROGRAMMING DEVICE FOR D-LOOP — EC DL 520 L

Part-No.: **EC-DL-500-L**

Programming tool for the easy manual addressing and programming of the D-Loop components

• Battery powered Stand- Alone tool with up and downloadfunction for an easy manual addressing and programming of the D-Loop components
• Support for diagnostics and programming functions for all detectors and modules
• Easy assignment of customer specific detector data
• Looptester - easy diagnostic for wiring recognition, debugging and maintenance (even without connected FCP)
• Usable stand-alone mode or with special PC-software (not available for all countries)
• Integrated detector base for automatic D-Loop detectors
• Terminal blocks for loop or line diagnostic
• USB-Interface for PC connection
• RS485 interface for repeater and special detector programming (with special PC-Software)
• Seven line LC Display with backlight and adjustable brightness for a clear display of all values and data
• 16 button keypad for an easy use and clearly arranged input of data
• Update function
• Automatic switching off function after 5 minutes at no use for higher battery lifetime
• Battery charger included

Technical Data

Operating Temperature	0°C to +40°C
Humidity	max. 90% (not condensend)
Dimensions (H x D)	300 x 150 x 90 mm
Weight	1000g with battery (rechargable)
Material	plastic
Color	white
Battery Lifetime	6,5h working autonomy (charging time 6h in standby mode)
Battery capacity	2 Ah (6,5h working autonomy; charging time 6h in standby mode)

LOOP PROGRAMMING DEVICE FOR D-LOOP INCLUDING DETTEL FUNCTIONALITY — EC DL 520

Part-No.: **EC-DL-500**

Portable tool for commissioning, troubleshooting, and maintenance operations of the addressable loop. It also enables the wiring verification of the conventional lines, delivered in a suitcase with an adapter/charger, a USB cable and a specific cable equipped with crocodiles' clips. It is compatible with the A95, A05, and A12 ranges of addressable devices. Mostly, it is a useful and essential tool to validate your installation before start-up

LICENCE CODE TO ENABLE DETTEL FUNCTIONALITY — OPTLC

Part-No.: **OPTLC**

KIT OF CABLES TO CONNECT BEAMS — K4C - CSL

Part-No.: **K4C - CSL**

OPTICAL SMOKE DETECTOR WITH INTEGRATED ISOLATOR | DL 520 20

Part-No.: DL-520-20

Intelligent optical smoke detector for D - Loop with two optical sensors and a bidirectional isolator according to EN 54-7 /-17 /-18

• Highest reliability by optimal adjustment of the alarm threshold via intelligent algorithm for the fire detection
• Individual change of detector class for sensitivity levels 1 to 4 using DPT
• Pollution detection of the smoke measurement chamber by an additional optical path
• Detector sensitivities automatically adapted and programmable
• IIntelligent analysis and suppression mode for the elimination of false alarms
• Fault monitoring of the measurement chamber signal and D-Loop electronics
• Periodic sensor test
• Automatic and manual addressing on D-Loop
• Integrated isolator
• Freely programmable alarm output to control parallel indicator
• Functions completely integrated via D-Loop protocol
• Day-/Nightmode with selectable sensitivities
• Integrated event log
• Multicolour LED for alarm (red) and fault (yellow)
• LED blinking option for life signal or maintenance mode.
• Delivery including dust protection cover for installation phases

Technical Data

Supply Voltage	30 V to 41 V DC on 2-wire bus (nom. 40 V DC)
Quiescent Current	180 μA
Alarm Current	5 mA
Output	optional relay 0.4 A / 30V DC
Ambient Temperature	-10°C bis to +65°C
Humidity	max. 93% (non condensing)
Protection Class	IP 20 B
Weight	150 g including base
Material	ABS
Colour	Housing white (similar to RAL 9003)
Standards	EN 54-7, EN 54-17, EN 54-18
Dimensions (H x D)	62,6 x 104 mm
Response Sensitivity	Adjustable in 4 sensitivity level

HEAT DETECTOR WITH INTEGRATED ISOLATOR | DL 520 T

Part-No.: DL-520-T

Intelligent thermal with rate of rise and fixed threshold detector for D - Loop with one thermal sensor and a bidirectional isolator for earliest fire detection and indication in all environments with difficult ambient conditions, according to EN 54-5/-17/-18

• Highest reliability by optimal adjustment of the alarm threshold via intelligent algorithm for the fire detection
• Individual change of detector class for sensitivity levels 1 to 4 using DPT
• Pollution detection of the smoke measurement chamber by an additional optical path
• Detector sensitivities automatically adapted and programmable
• IIntelligent analysis and suppression mode for the elimination of false alarms
• Fault monitoring of the measurement chamber signal and D-Loop electronics
• Periodic sensor test
• Automatic and manual addressing on D-Loop
• Integrated isolator
• Freely programmable alarm output to control parallel indicator
• Functions completely integrated via D-Loop protocol
• Day-/Nightmode with selectable sensitivities
• Integrated event log
• Multicolour LED for alarm (red) and fault (yellow)
• LED blinking option for life signal or maintenance mode.

Technical Data

Supply Voltage	30 V to 41 V DC on 2-wire bus (nom. 40 V DC)
Quiescent Current	180 μA
Alarm Current	5 mA
Output	optional relay 0.4 A / 30V DC
Ambient Temperature	-10°C to +65°C
Humidity	max. 93%
Protection Class	IP 20 B
Weight	150 g including base
Material	ABS
Colour	Housing white (similar to RAL 9003)
Standards	EN 54-5, EN 54-17, EN 54-18
Dimensions (H x D)	62,6 x 104 mm
Response Sensitivity	Adjustable in 6 sensitivity level

MULTI SENSOR DETECTOR WITH INTEGRATED ISOLATOR — DL 520 T-20

Part-No.: DL-520-T20

Intelligent multi sensor detector for D - Loop with heat and two optical sensors and a bidirectional isolator according to EN 54-17/-18/-29

• Highest reliability by optimal adjustment of the alarm threshold via intelligent algorithm for the fire detection
• Individual change of detector class for sensitivity levels 1 to 4 using DPT
• Pollution detection of the smoke measurement chamber by an additional optical path
• Detector sensitivities automatically adapted and programmable
• IIntelligent analysis and suppression mode for the elimination of false alarms
• Fault monitoring of the measurement chamber signal and D-Loop electronics
• Periodic sensor test
• Automatic and manual addressing on D-Loop
• Integrated isolator
• Freely programmable alarm output to control parallel indicator
• Functions completely integrated via D-Loop protocol
• Day-/Nightmode with selectable sensitivities
• Integrated event log
• Multicolour LED for alarm (red) and fault (yellow)
• LED blinking option for life signal or maintenance mode.
• Delivery including dust protection cover for installation phases

Technical Data

Supply Voltage	30 V to 41 V DC on 2-wire bus (nom. 40 V DC)
Quiescent Current	180 µA
Alarm Current	5 mA
Output	optional relay 0,4 A/ <30 V DC
Ambient Temperature	-10°C to +65°C
Humidity	max. 93% (non condensing)
Protection Class	IP 20 B
Weight	150 g including base
Material	ABS
Colour	Housing white (similar to RAL 9003)
Standards	EN 54-17, EN 54-18, EN 54-29
Dimensions (H x D)	62,6 x 104 mm
Response Sensitivity	Adjustable in 6 sensitivity levels

BASE FOR D-LOOP DETECTORS WITH PLUG-IN CONNECTORS AND BRIDGE — S15

Part-No.: S15

Detector Base with integrated bridge suitable for all detectors of D-Loop

• Integrated wire link between minus contacts for ensurance of a closed loop at removal of detector
• Bridge opens automatically at installation of the detector in the base
• Integrated plug terminal blocks for D-Loop connection and LED indicator
• Including detector labelling clip
• Integrated safety clip for fixing the detector into the base
• Option: Tool OAR15 for wiring, locking and deinstallation
• Option: Base variant with integrated relais (NC or NO) available

Technical Data

Material	ABS
Color type	White
Dimensions (H x D)	104 x 62,6 mm

BASE FOR D-LOOP DETECTORS WITH PLUG-IN CONNECTORS — S12

Part-No.: S12

BASE FOR D-LOOP DETECTORS — S05SE

Part-No.: 40237

FLUSH MOUNTING PIECE — PES15

Part-No.: PES15

Flush-mounting detector base with integrated bridge, enables the flush-mounting of a automatic detector of the D-Loop series

• Elegant white flush mount adapter
• Integrated wire link between minus contacts for ensurance of a closed loop at removal of detector
• Bridge opens automatically at installation of the detector in the base
• Integrated plug terminal blocks for D-Loop connection and LED indicator
• Including detector labelling clip
• Integrated safety clip for fixing the detector into the base

Technical Data	
Material	ABS
Color type	White
Dimensions (H x D)	46 x 122 mm

OPTIONAL TOOL FOR WIRING AND STRIPING — OAR15

Part-No.: OAR15

Installation tool for the easy connection of the detector base

• Tool to use for:
• Removal of cable insulation
• Support for cable installation or removal into the terminal block
• Realization of the fixing function for the detector of D-loop series

Technical Data	
Material	ABS
Color type	White

MANUAL CALL POINT, RED — DL 520 MCP E

Part-No.: DL-520-MCP-E

Manual Call Point for D-Loop for the manual activation of an alarm with bidirectional isolator and status LED according EN 54-11

• Push Button mechanics for the activation of a manual alarm
• Activation after pushing the front window
• Integrated reset mechanics
• Automatic and manual addressing on D-LOOP
• Integrated isolator
• Functions completely integrated via D-Loop protocol
• Integrated red LED for Alarm

Technical Data	
Supply Voltage	30 V to 41 V DC on 2-wire bus (nom. 40 V DC)
Quiescent Current	110 μA
Alarm Current	4 mA
Storage Temperature	+10°C to +50°C
Ambient Temperature	-10°C to +65°C
Humidity	max. 93%
Protection Class	IP 33
Dimensions (H x W x D)	98 x 98 x 51 mm
Weight	170 g
Material	ABS
Color	Housing red colour
Standards	EN 54-11, EN 54-17

MANUAL CALL POINT, YELLOW — DL 520 MCP EY

Part-No.: DL-520-MCP-EY

MANUAL CALL POINT, BLUE — DL 520 MCP EB

Part-No.: DL-520-MCP-EB

MANUAL CALL POINT, RED, WATERPROOF, EU FORMAT — DL 520 MCP EWP

Part-No.: DL-520-MCP-EWP

CONVENTIONAL WATERPROOF MANUAL CALL POINT resettable with key without breaking glass, led and alarm resistor integrated, RED colour, EN54-11, CE according to CPD/CPR

- Push Button mechanics for the activation of a manual alarm
- Integrated reset mechanics (operation from inside)
- LED for alarm (red)
- Encapsulated aluminum housing

Technical Data

Supply Voltage	13 V to 30 V DC
Alarm Current	35 mA @ 24 Vdc
Protection class	IP 66
Ambient temperature	-25°C to +70°C
Humidity	max. 95%
Dimensions (H x B x T)	120 mm x 120 mm x 87 mm
Weight	300 g
Material	ABS
Colour	Red
Standards	EN 54-11
VDS-approval	G 203021
CE-CPD-Number	0786-CPD-20350

TRANSPARENT LIFT UP COVER - PERMITS DOUBLE ACTION — VPDM

Part-No.: 40310

1 IN/1OUT (RELAY 24VDC) MODULE - PLASTIC BOX — DL 520 IOM

Part-No.: DL-520-IOM

Intelligent Input/Output module for the D-Loop with bidirectional isolator according to EN 54-18 and EN 54-17. With one monitored input and one potential free relay output

- Connecting module with one programmable input and one programmable output
- Programming of different switching variants of input and output also with time control for one detector group
- Independent programming of input and output
- Monitoring of the operating status via D-Loop
- Automatic and manual addressing with D-Loop
- Integrated isolator
- Functions completely integrated via D-Loop protocol
- 2 red LED for status information input and output, 1 yellow LED for fault indication
- Robust wall mounted housing

Technical Data

Supply Voltage	30 V to 41 V DC on 2-wire bus (nom. 40 V DC)
Quiescent Current	150 µA
Alarm Current	1 mA
Output	relay 2 A/ 30 V DC
Ambient Temperature	-30°C to +70°C
Storage Temperature	+10°C to +50°C
Humidity	max. 93%
Protection Class	IP 43
Dimensions (H x W x D)	120 x 120 x 60 mm
Weight	160 g
Material	ABS/PC
Color	Housing grey
Standards	EN 54-17, EN 54-18
Inputs	potential free contact (selectable monitored)

1 IN/1OUT - MODULE 4 I/O — DL 520 4IOM

Part-No.: DL-520-4IOM

Intelligent Input/Output module for the D-Loop with bidirectional isolator according to EN 54-18 and EN 54-17. With 4 monitored inputs and 4 potential free relay outputs

- Connecting module with 4 programmable inputs and 4 programmable outputs
- Programming of different switching variants of inputs and outputs also with time control for one detector group
- Independent programming of inputs and outputs
- Monitoring of the operating status via D-Loop
- Automatic and manual addressing with D-Loop
- Integrated isolator
- Functions completely integrated via D-Loop protocol
- 2 red LED for status information input and output, 1 yellow LED for fault indication
- Robust wall mounted housing

Technical Data

Supply Voltage	30 V to 41 V DC on 2-wire bus (nom. 40 V DC)
Quiescent Current	450 µA
Alarm Current	4 mA
Output	relay 2 A/ 30 V DC
Ambient Temperature	-30°C to +70°C
Storage Temperature	+10°C to +50°C
Humidity	max. 93%
Protection Class	IP 43
Dimensions (H x W x D)	252 x 205 x 92 mm
Weight	708 g
Material	ABS/PC
Color	Housing grey
Standards	EN 54-17, EN 54-18
Inputs	potential free contact (selectable monitored)

1 IN/1OUT (FOR ALARM DEVICES) MODULE - PLASTIC BOX — DL 520 OMS

Part-No.: DL-520-OMS

IIntelligent Input/Output module for the D-Loop for the control of external optical and acoustic signaling devices with bidirectional isolator according to EN 54-17 and EN 54-18.
Including one monitored fault input and one monitored voltage output for signalling devices.

• Integrated automatic switch function of the output at „external signal line on/off" signal by the fire control panel
• Connecting module with one freely programmable input and one output for the connection of signalling devices
• Input for connecting an external 24 V DC power source to supply the signaling line
• Programming of different switching variants of input and output also with time control
• Independent programming of input and output
• Monitoring of the operating status via D-Loop
• Automatic and manual addressing on D-Loop
• Integrated isolator
• Functions completely integrated via D-Loop protocol
• 2 red LED for status information input and output, 1 yellow LED for fault indication
• Robust wall mounted housing

Technical Data

Supply Voltage	30 V to 41 V DC on 2-wire bus (nom. 40 V DC)
Quiescent Current	150 µA
Alarm Current	1 mA
Output	max. 1,5 A / 24 V DC
Ambient Temperature	-30°C to +70°C
Protection Class	IP43 (IP 54 with PG11 cable glands - not included in the delivery)
Weight	400 g
Material	ABS/PC
Colour	Housing grey
Standards	EN 54-17, EN 54-18
Dimensions (H x D)	170 x 120 x 70 mm (without cable glands)
Inputs	420 µA / 24 V DC

1 IN/1OUT (RELAY 24VDC) MODULE - DIN RAIL — DL520-IOR

Part-No.: DL-520-IOR

Intelligent Input/Output module for the D-Loop in DIN-rail version with bidirectional isolator according to EN 54-18 and EN 54-17. With one monitored input and one potential free relay output

• Connecting module with one programmable input and one programmable output
• Programming of different switching variants of input and output also with time control for one detector group
• Independent programming of input and output
• Monitoring of the operating status via D-Loop
• Automatic and manual addressing on D-Loop
• Integrated isolator
• Functions completely integrated via D-Loop protocol
• 2 red LED for status information input and output, 1 yellow LED for fault indication
• Housing for DIN rail mounting

Technical Data

Supply Voltage	30 V to 41 V DC on 2-wire bus (nom. 40 V DC)
Quiescent Current	150 µA
Alarm Current	1 mA
Output	Relay 2 A / 30V DC
Ambient Temperature	-30°C to +70°C
Humidity	max. 93%
Protection Class	IP 20
Weight	100 g
Material	PA6
Colour	Green
Standards	EN 54-17, EN 54-18
Dimensions (H x D)	108 x 112 x 32,5 mm
Inputs	Potential free contact (selectable monitored)
Remarks	Compatible with balanced 7.5 mm and 15 mm rails. Locking adapters are required on both sides for a secure hold on DIN rails (not included in the scope of delivery).
VdS-Approval	G 219038

1 IN/1OUT (FOR ALARM DEVICES) MODULE - PLASTIC BOX — DL520-IOM230

Part-No.: DL-520-IOM230

Intelligent Input/Output module for the D-Loop with bidirectional isolator according to EN 54-18 and EN 54-17. With one monitored input and one potential free relay output 230 V AC

- Connecting module with one programmable input and one programmable output
- Programming of different switching variants of input and output also with time control for one detector group
- Independent programming of input and output
- Monitoring of the operating status via D-Loop
- Automatic and manual addressing with D-Loop
- Integrated isolator
- Functions completely integrated via D-Loop protocol
- 2 red LED for status information input and output, 1 yellow LED for fault indication
- Robust wall mounted housing

Technical Data

Supply Voltage	30 V to 41 V DC on 2-wire bus (nom. 40 V DC)
Quiescent Current	150 µA
Alarm Current	1 mA
Output	Relay 6 A / 230V AC 50/60 Hz or 6 A / 30 V DC
Ambient Temperature	-30°C to +70°C
Storage Temperature	+10°C to +50°C
Humidity	max. 93 %
Protection Class	IP 43
Dimensions (H x W x D)	170 x 120 x 70 mm
Weight	390 g
Material	ABS/PC
Color	Housing grey
Standards	EN 54-17, EN 54-18
Inputs	Potential free contact (selectable monitored)
VdS-Approval	G 219042

CONVENTIONAL ZONE MODULE, 1 LINE — DL520-TCM-SB

Part-No.: DL-520-TCM-SB

Intelligent Input/Output module for the D-Loop with bidirectional isolator according to EN 54-18 and EN 54-17. With one input for conventional line

- Connecting module with one programmable input for conventional detectors
- Independant programming of input and output
- Monitoring of the operating status via D-Loop
- Automatic and manual addressing with D-Loop
- Integrated isolator
- Functions completely integrated via D-Loop protocol
- LEDs for status indication
- Requires an external power supply unit
- One output to connect a remote indicator located less than 3 meters
- Robust wall mounted housing

Technical Data

Supply Voltage	30 V to 41 V DC on 2-wire bus (nom. 40 V DC)
Quiescent Current	200 µA
Alarm Current	1 mA
Ambient Temperature	-30°C to +70°C
Storage Temperature	+10°C to +50°C
Humidity	max. 93 %
Protection Class	IP 43
Dimensions (H x D)	170 x 120 x 70 mm
Weight	390 g
Material	ABS/PC
Color	Housing grey
Standards	EN 54-17, EN 54-18

WALL SOUNDER - ADDRESSABLE - WHITE 96 DB, DIN — AVS3000A

VdS-approval   G219054

Part-No.: DL-520-WS-W

Loop powered intelligent D-Loop sounder for acoustic alarming with bidirectional isolator according to EN 54-3 and EN 54-17

- Control, monitoring and powering directly via the D-Loop protocol
- Integrated automatic switch function of the output at „external signal line on/off" signal by the fire control panel
- Programming option for 18 different tones, 4 alarm scenarios and 4 volume levels
- Monitoring of the operating status via D-Loop
- Automatic and manual addressing on D-Loop
- Integrated isolator
- Functions completely integrated via D-Loop protocol
- Elegant wall mounted housing

Technical Data

Supply Voltage	30 V to 41 V DC on 2-wire bus (nom. 40 V DC)
Quiescent Current	200 µA
Alarm Current	20 mA (+3 mA with synchronisation)
Ambient Temperature	-10°C to +55°C
Storage Temperature	-10°C to +50°C
Humidity	max. 93%
Protection Class	IP 21C
Weight	200 g
Material	ABS
Colour	Housing withe
Standards	EN 54-3, EN 54-17
Dimensions (H x D)	89 x 99 mm
Loudness	max. 96dB, DIN

WALL SOUNDER - ADDRESSABLE - RED 96 DB, DIN — AVS3000A

VdS-approval   G 219054

Part-No.: DL-520-WS-R

Loop powered intelligent D-Loop sounder for acoustic alarming with bidirectional isolator according to EN 54-3 and EN 54-17

Control, monitoring and powering directly via the D-Loop protocol

Integrated automatic switch function of the output at „external signal line on/off" signal by the fire control panel

Programming option for 18 different tones, 4 alarm scenarios and 4 volume levels

Monitoring of the operating status via D-Loop

Automatic and manual addressing on D-Loop

Integrated isolator

Functions completely integrated via D-Loop protocol

Elegant wall mounted housing

Technical Data

Supply Voltage	30 V to 41 V DC on 2-wire bus (nom. 40V DC)
Quiescent Current	200 µA
Alarm Current	20 mA (+3 mA with synchronisation)
Output	-10°C to +55°C
Ambient Temperature	-10°C to +50°C
Humidity	max. 93%
Protection Class	IP 21C
Weight	200 g
Material	ABS
Colour	Housing red
Standards	EN 54-3, EN 54-17
Dimensions (H x D)	89 x 99 mm
Loudness	max. 96dB, DIN

BASE SOUNDER - ADDRESSABLE - WHITE 76 DB, DIN — AS3000A

VdS-approval   G 219056

Part-No.: DL-520-BS-W

Loop powered intelligent D-Loop sounder for acoustic alarming with bidirectional isolator according to EN 54-3 and EN 54-17

- Control, monitoring and powering directly via the D-Loop protocol
- Integrated automatic switch function of the output at "external signal line on/off" signal by the fire control panel
- Programming option for 18 different tones, 4 alarm scenarios and 4 volume levels
- Monitoring of the operating status via D-Loop
- Automatic and manual addressing on D-Loop
- Integrated isolator
- Functions completely integrated via D-Loop protocol
- Elegant wall mounted housing

Technical Data

Supply Voltage	30 V to 41 V DC on 2-wire bus (nom. 40 V DC)
Quiescent Current	200 µA
Alarm Current	20 mA (+3 mA with synchronisation)
Output	-10°C to +55°C
Ambient Temperature	-10°C to +50°C
Humidity	max. 93%
Protection Class	IP 21C
Weight	200 g
Material	ABS
Colour	Housing withe
Standards	EN 54-3, EN 54-17
Dimensions (H x D)	89 x 99 mm
Loudness	max. 76 dB, DIN

WALL SOUNDER - CONVENTIONAL - WHITE 106 DB — AVS3000

VdS-approval   G 219055

Part-No.: DCWS-E-W

Acoustic sounder for acoustic alarming according to EN 54-3

• Integrated second alarm function
• 17different tones and 2 volume levels adjustable via DIP switch
• Elegant wall mounted housing

Technical Data

Supply Voltage	16 V to 60 V DC
Quiescent Current	100 µA
Alarm Current	15 mA
Ambient Temperature	-30°C bis +55°C
Humidity	max. 93%
Protection Class	IP 21C
Weight	200 g
Material	ABS
Color	Housing white
Standards	EN 54-3
Dimensions (H x D)	89 x 99 mm
Loudness	max. 96dB, DIN

BASE SOUNDER - CONVENTIONAL - WHITE 90DB — AS3000

VdS-approval   G 219057

Part-No.: DCWS-E-W

Acoustic sounder for acoustic alarming according to EN 54-3

• 17 different tones and 2 volume levels adjustable via DIP switch
• Discreet white plastic housing with cover
• Mounting option for automatic detectors of the DL-510/520 series (detector base S15 required)

Technical Data

Supply Voltage	16 V to 60 V DC
Quiescent Current	100 µA
Alarm Current	15 mA
Ambient Temperature	-30°C bis +55°C
Humidity	max. 93%
Protection Class	IP 21C
Weight	200 g
Material	ABS
Color	Housing white
Standards	EN 54-3
Dimensions (H x D)	89 x 99 mm
Loudness	max. 96dB, DIN

WALL SOUNDER - CONVENTIONAL - RED 106 DB — AVS3000

VdS-approval   G 219055

Part-No.: DCWS-E-R

Acoustic sounder for acoustic alarming according to EN 54-3

• Integrated second alarm function
• 17different tones and 2 volume levels adjustable via DIP switch
• Elegant wall mounted housing

Technical Data

Supply Voltage	16 V to 60 V DC
Quiescent Current	100 µA
Alarm Current	15 mA
Ambient Temperature	-30°C bis +55°C
Humidity	max. 93%
Protection Class	IP 21C
Weight	200 g
Material	ABS
Color	Housing red
Standards	EN 54-3
Dimensions (H x D)	89 x 99 mm
Loudness	max. 96dB, DIN

FIRE CONTROL PANEL
DC3500

Safety has a name

SPECIAL TECHNOLOGY
FUTURE BUILT IN

The heart of the dc3500 is a fast Linux-based computer unit with lots of memory space and open interfaces. In addition to the advantages that an easy-maintenance standard operating system obviously brings, this aspect will also make the dc3500 especially interesting to different partners in future.

After all, an emerging trend in fire protection is to connect all building services and move away from monitoring sub-zones in isolation.

This solution is scalable for use in larger buildings, especially future-proof thanks to intelligent, user-friendly control functions and is still easy to install, even with all of its technical sophistication.

One feature that supports easy operation is an intuitive control panel with a large colour touchscreen, additional functions and ergonomic optimisation.

Hardware
- Different housing SL, ML, EL
- Colour touchscreen
- CON-X interconnection
- Up to 15 loops

Software:
- Configuration tool
- DPT programming software with integrated check for plausibility and conformity to standards
- BMS interface
- Update via DPT

FEATURES AT A GLANCE:

Touchscreen
The dc3500 now has an intuitive control panel with a large colour touchscreen, new functions and improved ergonomics.

A new test dimension
The dc3500 is run through its paces to make sure it is fit for purpose every day, all day. The system runs several thousand software-based tests. And we are proud to say that it is 100% reliable.

4 screws, 30 seconds
We designed this solution with installers in mind: just loosen four screws and the wiring is simple.
Now that's what we call easy to use.

READY :
FOR BIG JOBS

The dc3500 has grown to tackle any challenge, with interfaces that can connect the system to any desired peripheral device.

The fully integrated distributed system structure allows us to design the system flexibly in future expansion levels for projects of different sizes.
New transmission and network technology can be used and integrated in the process, even those that today are not yet included in the standards.

We are a sure bet
– and that's why we're fit for the future.
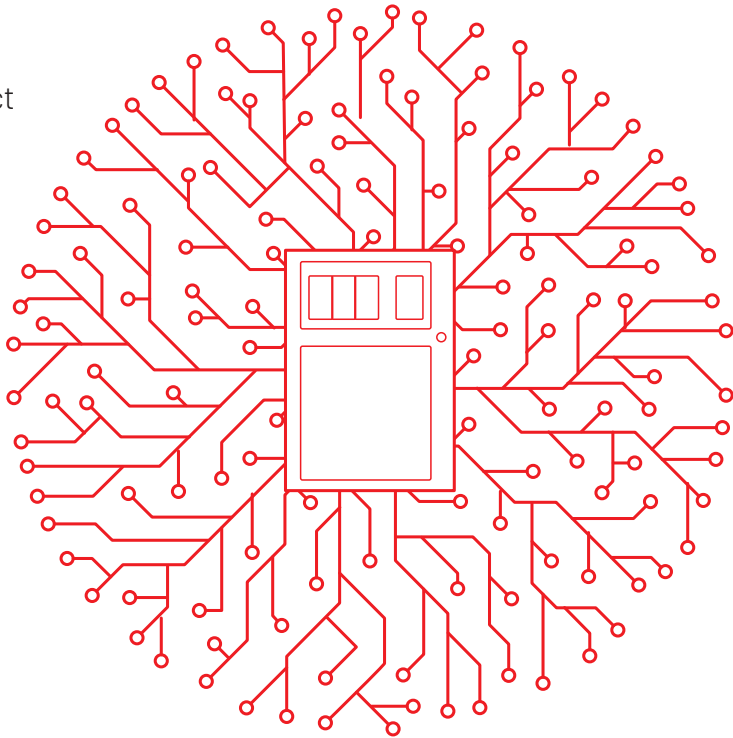
| RS-485 | RS-232 | I²C/SPI | Ethernet | USB 2.0 | USB OTG | CAN-Bus |

Everything organised
Sophisticated cable management with microfit bus technology makes working with the dc3500 easier, faster and problemfree. That's why we're well equipped for future jobs.

Remote control
Operate and manage dc3500 systems easily via Ethernet.

100 times faster
The heart of the dc3500 is the new Linux-based computer unit. It's fast, easymaintenance and has lots of memory space.
In short, it's a real piece of future-proof equipment.

MORE SAFETY :
THROUGH REDUNDANCY
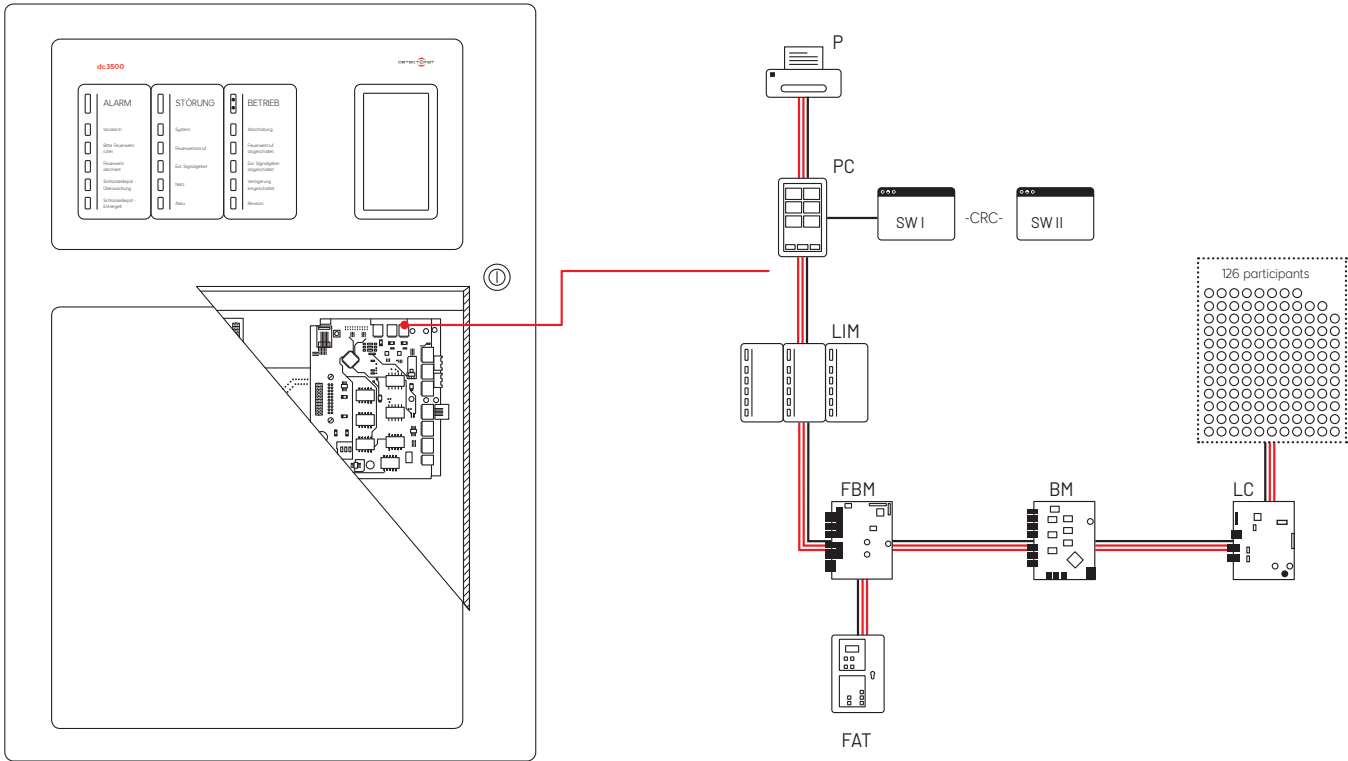
THE REDUNDANCY CONCEPT – PERFECT FOR USE IN COMPLEX SITUATIONS

In the development process, we programmed new start-up procedures for the fire control panel software. The aim was to make the system as resistant as possible to interference and disruptions.
If there is external interference, which is also tested in EN 54, one of the things the system must be able to do is come out of an undefined state to a defined state.
The newly implemented start-up process now takes place logically based on the data in the memory. This process optimises the dc3500 for use under conditions involving strong interference.

All hardware modules of the dc3500 are connected by two additional lines: the „alarm and fault emergency paths".

If modules fail as a result of a fault, the dc3500 in this state can provide and forward all summary displays and messages which are relevant for EN 54-2.

There are two separate Linux systems (operating system + applications) in the embedded PC from which one Linux system is started.
The embedded PC has a separate watchdog unit that must be triggered by the active Linux system. If an error occurs and the watchdog unit is not engaged, the embedded PC reboots.

Monitoring area

Each loop card has a maximum of 126 connected devices.
It is assumed that a system is planned so that the monitoring area for each loop card is less than or equal to 3,000 m².

Thus systems with more than 512 detectors and a safe zone of up to 48,000 m² are easy to implement as per DIN VDE 0833-2 without additional FCP hardware.

FIRE CONTROL PANEL DC3500 SL — FCP 3500 SL

VdS-approval   G-214222

Part-No.: **34026**

Compact microprocessor controlled fire control panel for the use with the Loop 3000 fire detection system components.

- Clear display and easy operation via high resolution colour display with capacitive touch screen
- USB-Interface for easy programming via DPT-Software
- Space for up to 7 modules to connect up to 126 Loop 3000 fire detection system components per module
- Programming of up to 1890 detector zones
- Event log memory for 100.000 messages
- Easy programming of up to 10.000 connections

Supply Voltage	90-265V; 50-60Hz
Emergency Supply	2 x 12 V/17 Ah, 26 Ah, 45 Ah
Quiescent Current	280 mA
Alarm Current	360 mA depending on extention
Output	1 x 24 VDC / 800 mA monitored for alarming devices. 2 relay outputs for alarm and fault, 4 relay outputs free programmable (30 VDC, 2 A / 125 VAC, 0,5 A)
Ambient Temperature	-5°C to +40°C
Humidity	5% to 95% (not condensing)
Protection class	IP 30
Dimensions (H x W x D)	450 mm x 450 mm x 240 mm
Weight	12,5 kg without batteries
Material	Sheet metal
Color	RAL 9006
Standards	EN 54-2: 1997 A1: 2006; EN 54-4: 1997 A2: 2006
Remarks	Standard includes the licence up to 250 participants.
Inputs	2 potential free programmable inputs
Display	24-Bit-colour display 1024 x 600 pixel, LED-backlit. 23 fixed and 5 free programmable status indicators
Power Supply	Pmax: 166 W
Interfaces	USB-slave
VdS-Approval	G 214222

FIRE CONTROL PANEL DC3500 ML — FCP 3500 ML

VdS-approval   G-214222

Part-No.: **34027**

Compact microprocessor controlled fire control panel for the use with the Loop 3000 fire detection system components.

- Clear display and easy operation via high resolution colour display with capacitive touch screen
- USB-Interface for easy programming via DPT-Software
- Space for up to 15 modules to connect up to 126 Loop 3000 fire detection system components per module
- Programming of up to 1890 detector zones
- Event log memory for 100.000 messages
- Easy programming of up to 10.000 connections

Supply Voltage	90-265V; 50-60Hz
Emergency Supply	2 x 12 V/17 Ah, 26 Ah, 45 Ah
Quiescent Current	280 mA
Alarm Current	360 mA depending on extention
Output	1 x 24 VDC / 800 mA monitored for alarming devices. 2 relay outputs for alarm and fault, 4 relay outputs free programmable (30 VDC, 2 A / 125 VAC, 0,5 A)
Ambient Temperature	-5°C to +40°C
Humidity	5% to 95% (not condensing)
Protection class	IP 30
Dimensions (H x W x D)	600 mm x 450 mm x 240 mm
Weight	17,7 kg without batteries
Material	Sheet metal
Color	RAL 9006
Standards	EN 54-2: 1997 A1: 2006; EN 54-4: 1997 A2: 2006
Remarks	Standard includes the licence up to 250 participants.
Inputs	2 potential free programmable inputs
Display	24-Bit-colour display 1024 x 600 pixel, LED-backlit. 23 fixed and 5 free programmable status indicators
Power Supply	Pmax: 166 W
Interfaces	USB-slave
VdS-Approval	G 214222

LICENCE L1 DC 3500 - 251 UP TO 630 PARTICIPANTS — Licence L1 dc3500

Part-No.: **32971**

LICENCE L2 DC3500 - 251 UP TO 1260 PARTICIPANTS — Licence L2 dc3500

Part-No.: **32972**

LICENCE L3 DC3500 - 251 UP TO 1890 PARTICIPANTS — Licence L3 dc3500

Part-No.: **32973**

LICENCE GLT DC3500 - INTERFACE BUILDING MANAGEMENT SYSTEM — Licence GLT dc3500

Part-No.: **33088**

LANGUAGE KITS DC3500

LANGUAGE KIT ENGLISH	LK dc3500 GB
	Part-No.: 33035

LANGUAGE KIT DUTCH	LK dc3500 NL
	Part-No.: 33035

LANGUAGE KIT BULGARIAN	LK dc3500 BG
	Part-No.: 33035

LANGUAGE KIT POLISH	LK dc3500 PL
	Part-No.: 33035

LANGUAGE KIT ROMANIAN	LK dc3500 RO
	Part-No.: 33035

LANGUAGE KIT CZECH	LK dc3500 CZ
	Part-No.: 33035

LANGUAGE KIT ESTONIAN	LK dc3500 EE
	Part-No.: 33035

LANGUAGE KIT RUSSIAN	LK dc3500 RU
	Part-No.: 33035

LANGUAGE KIT HUNGARIAN	LK dc3500 HU
	Part-No.: 33035

LANGUAGE KIT ITALIAN	LK dc3500 IT
	Part-No.: 33035

LANGUAGE KIT PORTUGUESE	LK dc3500 PT
	Part-No.: 33035

LANGUAGE KIT SERBIAN	LK dc3500 RS
	Part-No.: 33035

LANGUAGE KIT TURKISH	LK dc3500 TR
	Part-No.: 33035

LANGUAGE KIT FRENCH	LK dc3500 FR
	Part-No.: 33035

LOOP MODULE FOR FIRE CONTROL PANEL DC3500, PROTECTED	CP 3500 LOM P
VdS-approval with dc3500	Part-No.: 33058

Microprocessor controlled loop interface for dc3500 with special coating against condensing water for the uninterruptible and short-circuit-proof use with 126 Loop 3000 fire detection system components.

• Connection of Loop 3000 components in loop structure or spur-structure
• 2-wire-system loop with up to 3.500 m loop length
• Easy and flexible installation and initialization via automatic and manual addressing
• System-plug to connect to dc3500 system
• System-socket to connect additional modules to the dc3500 system

Technical Data

Interfaces	1 x loop3000
Ambient temperature	-5°C to +40°C
Humidity	5% to 95% (not condensing)
Dimensions (H x B x T)	125 mm x 100 mm x 20 mm
VDS-approval	with dc3500

LOOP MODULE FOR FIRE CONTROL PANEL DC3500	CP 3500 LOM
VdS-approval with dc3500	Part-No.: 32814

Microprocessor controlled loop interface for dc3500 with special coating against condensing water for the uninterruptible and short-circuit-proof use with 126 Loop 3000 fire detection system components.

• Connection of Loop 3000 components in loop structure or spur-structure
• 2-wire-system loop with up to 3.500 m loop length
• Easy and flexible installation and initialization via automatic and manual addressing
• System-plug to connect to dc3500 system
• System-socket to connect additional modules to the dc3500 system

Technical Data

Interfaces	1 x loop3000
Ambient temperature	-5°C to +40°C
Humidity	5% to 95% (not condensing)
Dimensions (H x B x T)	125 mm x 100 mm x 20 mm
VDS-approval	with dc3500

FIRE BRIGADE MODULE FOR DC3500, PROTECTED — CP 3500 FBM

Part-No.: **33059**

Microprocessor controlled interface for the dc3500 fire control panel with special coating against condensing water to connect required devices for the direct link to the Fire Brigade.

- Interface to IFAM system 4000 to connect FAT and FBF
- Direct connection of key deposit unit
- Potential free contact to connect sabotage message to intrusion alarm panel
- Monitored output to connect signal devices
- Transmission unit-alarm with two additional criterias
- Transmission unit-fault (Opener)
- Output supply voltage 12 V +- 1,8 V DC (e.g. dialer unit)
- RS-485 interface for connection of third party systems
- System-plug to connect to dc 3500 system

Technical Data

Output	12 V +- 1,8 V DC bei 0,7 A
Ambient temperature	-5°C to +40°C
Humidity	5% to 95% (not condensing)
Dimensions (H x B x T)	20 mm x 125 mm x 100 mm
Further approvals	international approvals available on request

PRINTER MODULE FOR DC3500 — CP 3500 PRM

Part-No.: **33681**

Thermo-printer for the integration to the front plate of the detect 3500 fire control panel

- Direct connection to the RS-232 Interface of the fire control panel
- Thermoprint with fixed print heads
- 204 dpi resolution
- 57 mm paper width
- Printing speed of 50 mm/sec
- Powered directly from the fire control panel
- 1 assembly plate for the mounting into the Fire control panel is included
- Spare parts: Thermo-paper part.-no. 30107

Technical Data

Supply Voltage	10 V to 32 V DC
Quiescent Current	100 mA
Alarm Current	1A (active printing process)
Ambient temperature	0°C to +50°C
Humidity	10 % to 85 % (not condensing)
Dimensions (H x B x T)	85,5 mm x 85 mm x 57 mm
Weight	141 g
Material	ABS,
Colour	black
Remarks	Plate for mounting is included

SPARE THERMO-PAPER FOR MOUNT IN PRINTER — EP 5

Part-No.: **30107**

Thermo-paper, packing unit 5 reels

- Suitable for mount in printer PIP 2 and PIP 3004^{plus}
- Packing unit 5 reels
- Paper width 57 mm
- Outer diameter: 37 mm
- Inner diameter (bore) 12,3 mm

BACKPLANE FOR FIRE CONTROL PANEL DC 3500 — CP 3500 BPB

Part-No.: **32811**
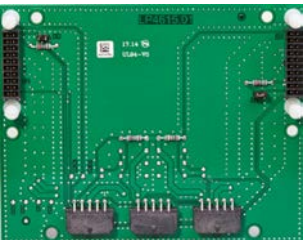
The optional mounting kit (backplane and mounting plate) for the dc3500 central fire alarm ML panel allows an expansion up to the maximum number of 15 loop cards.

- Two additional Slots for modules / cards

EXTINGUISHING CONTROL MODULE, INSTALLATION KIT — PL 3321 ECM

VdS-approval   G 216010

Part-No.: **32898**

Intelligent Extinguishing control module for loop3000 system with bi-directional isolator to control One-Zone-Extinguishing panels. With two supervised inputs and one potential free optical-relay-output. The status of the module is displayed in the dc 3500 fire control panel.

- According to the requirements of VdS 2496 and VdS 2540
- Monitoring of the status via Loop 3000
- Automatic and manual addressing with Loop 3000
- Integrated bi-directional isolator
- Modular housing for the easy mounting onto a DIN rail into dc3500

Technical Data

Supply Voltage	17 V to 32 V DC, 2-wire-Bus
Quiescent Current	appr. 460 μA
Alarm Current	6 mA
Output	1 optical relay potential free
Protection class	IP 30 - installed in fire control panel dc3500
Operating Temperature	-20°C to +60°C
Storage temperature	-25°C to +85°C
Dimensions (H x B x T)	72 mm x 83 mm x 33 mm
Weight	30 g
Standards	EN 54-17: 2005; EN 54-18:2005
VDS-approval	G 216010
CE-CPR-Number	0786-CPR-21491
Further approvals	0786-CPR-21491
Remarks	pro dc3500 only 1 ECM-module usable. It's not allowed to use it in a stitch.

RCP DC3500 POE — RCP dc3500 PoE

Part-No.: **33062**

PC-operated display and control unit for dc3500 fire control panels

- User-friendly display with status indicator for EN 54-2 fire alarm systems
- Easy and intuitive operation and control of the dc3500 via touchscreen display
- 7" high-resolution monitor (1024 x 600 pixels) with maximum colour resolution
- Capacitive-surface touch display
- Display brightness 500 cd/m²
- Operation via PoE (Power over Ethernet) interface
- Slot for micro SD card
- ARM Cortex-A9 32-bit multicore processor
- 4 GB internal flash data memory
- Scalable embedded Linux operating system
- Integrated loudspeaker for emitting sound and voice signals
- Sleek, wall-mounted housing with brushed stainless steel finished look
- PoE injector for transmitting voltage and data via network cables, for installation in the dc3500
- Low power consumption with a maximum connected wattage of 7 W

Technical Data

Supply Voltage	Via PoE
Emergency Supply	From the dc3500
Display	High resolution 1024 x 600 px
Protection class	IP 30
Ambient temperature	-5°C to +40°C
Humidity	5% to 95% (not condensing)
Dimensions (H x B x T)	220 mm x 135 mm x 44 mm
Weight	0.9 kg
Material	Plastic housing

EXTENSION HOUSING FCP DC3500 — FCP 3500 EL

Part-No.: **32998**

Metal extension housing for installation of further components

- Sheet metal housing in dc3500 design
- Space for up to 8 modules
- Neutral front door
- Same lock as fire control panel

Technical Data

Ambient temperature	-5°C to +40°C
Humidity	5% to 95% (not condensing)
Dimensions (H x B x T)	450 mm x 420 mm x 240 mm
Weight	12,5 kg
Material	Sheet metal
Colour	RAL 9006
Standards	with dc3500

CP 3500 PSA

Part-No.: **32903**

ERS DC DIS EPC-LIM

Part-No.: **33904**

CP 3500 BBM P

Part-No.: **33057**

INTERCONNECTING
FIRE DETECTION SYSTEMS
CON-Xnet

CON-Xnet
NETWORK TECHNOLOGY

The tried-and-tested, high-performance CON-Xnet network allows for the loop-shaped networking of network devices and is being continuously optimised for the technical requirements during the installation of networked fire alarm systems.

Detectomat fire alarm control panels of various types can be networked together via the CON-Xnet and therefore all standard-relevant messages can be processed and displayed centrally. The compatibility of the various system families is guaranteed with CON-Xnet.

By using the ADP4000 adapter module, it is possible to combine the CON-Xnet with compatible external systems.
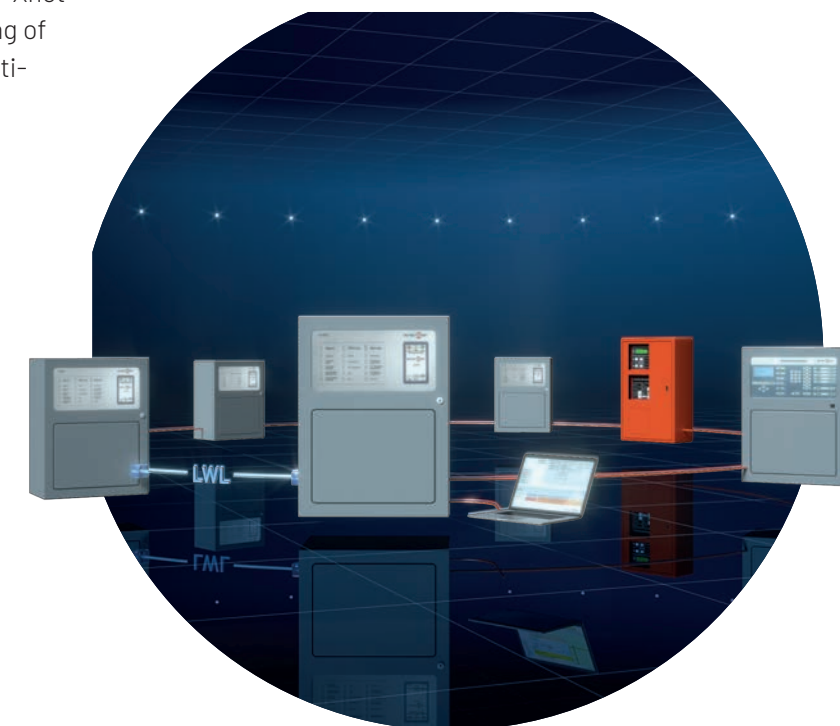
! **Safety and flexibility** for any application

- Up to 31 fire alarm control panels can be networked

- Up to 496 different remote operation panels can be integrated into the network structure

- Combination of structures with external systems possible

- Network connections made of copper cable, fibre optic cables (FOC) and also combinations possible

- Manufacturer-independent expansions possible, in which the information of the overall system is displayed

- Easy updates of existing CON-Xnet structures

- Remote access via the IRAS system

- Effective adjustment of the network configuration (displays, restrictions, control events, etc.) without hardware expenses

- VdS approval

Safely the right solution. The CON-Xnet network technology

CON-Xnet
SAFE AND FLEXIBLE

01   New installation

- Standard-compliant installation / compatible and approved components

02   Modernisation

- Adjustment to amended regulatory requirements and specifications
- Modernisation of the system due to e.g. change of use of the building

03   Expansion of existing systems

- Adoption and use of the existing cable installation possible in many buildings
- Connection of available compatible external systems and existing systems

04   System migration / System change

- Complete or sectional system change
- Safe system networking even for critical applications

CONFIGURATOR
WEBTOOL

The Detectomat System Configurator is an easily understandable and clear software tool for the planning of fire alarm systems. Even with no or limited knowledge of the Detectomat product range, projects can be configured safely and reliably.

The configuration is automatically checked for completeness and plausibility during entry. Required components, such as modules and power supply units, are added automatically.

For this configuration, there is a function available for issuing tender texts in the various formats (GAEB, Excel, etc.).

For quick and complete information, the Detectomat product catalogue, which contains detailed technical descriptions and diagrams as well as helpful software tools, has been integrated.
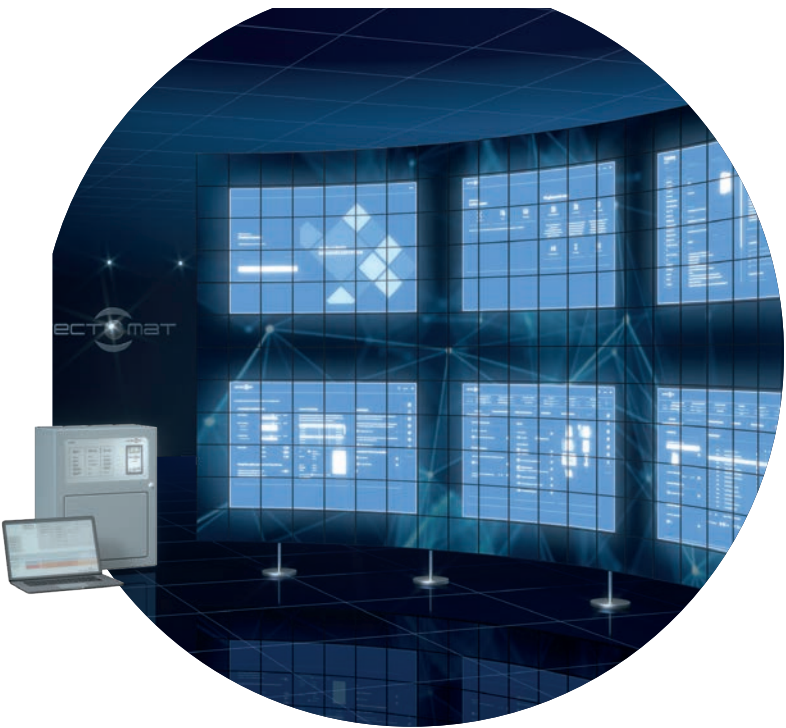
- Automatic plausibility check
- Preparation of tender texts in various formats
- Quantity structure evaluation
- Integrated product catalogue

DC3500
AN OVERVIEW

Hardware

- Various housings SL, ML, EL
- 24-bit colour display
- CON-Xnet
- USB-Slave

Software

- Configuration tool
- DPT programming software
- GLT interface
- Update via DPT

RCP DC3500 PoE display unit

Integrated touch colour display

VdS CE

EVAC-Box
Connection unit for activation of up to four signalling device lines

CONUS
Conventional signalling devices
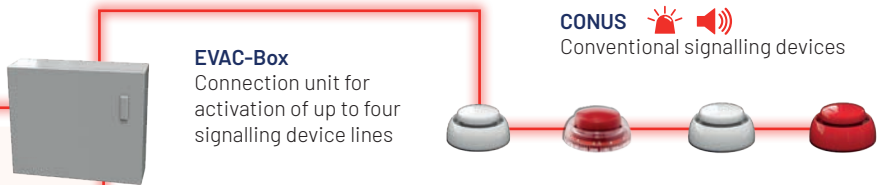
LOOP Technology

The DC3500 fire alarm control panel can, depending on the housing size, be equipped with 15 loop modules.

The loop is a monitored 2-wire line with BUS technology and allows for the connection and mixed operation of 126 loop devices, such as e.g. automatic and non-automatic fire detectors as well as bus-supplied CONUS II signalling devices. For example, it is even possible to operate 126 CONUS II signalling devices on one loop.

PL 3300 OTi
Multisensor detector

PL 3300 O
Smoke fire detector

PL 3300 PBDH
Push-button

CONUS II
Loop-Sounder

IO
Evaluation unit

- Visual alarm
- Audio alarm
- Addressable detector
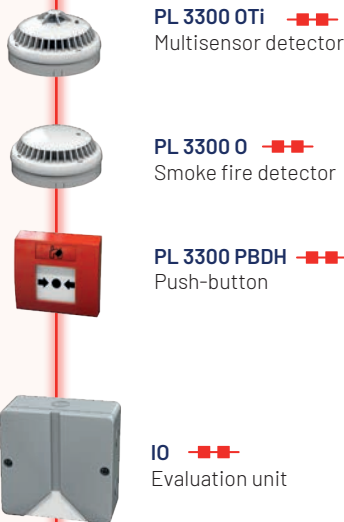
CONUS II
MULTI-TONE SIREN IN THE LOOP

The volume of the 41 signal tones, which can be individually adjusted in four levels, offers optimised audible alarms even if extremely high volumes are required. Thanks to the integrated battery, with an average lifetime of well above eight years, the CONUS II even works on its own.

In the event of an alarm, the battery automatically delivers the uninterruptible energy required for the audible alarm and therefore meets the requirements of the (M)LAR.

The signal tones, volume and four alarm scenarios can be individually programmed via the software. Depending on the alarm concept, it may be possible to forego a F30 fire protection housing and cabling with function retention due to the decentralised supply of the signalling devices.

CONUS II
Loop-Sounder
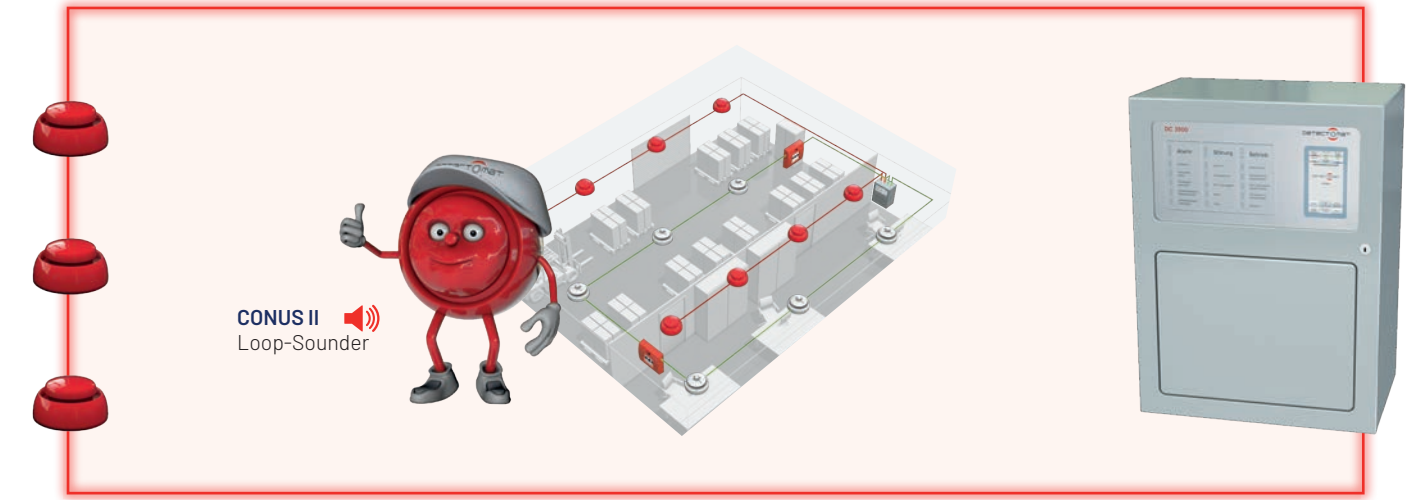
We promise ...

The DC3500 fire alarm control panel with the integrated touch colour display is state-of-the-art fire alarm technology.

- Clear and unambiguous display of messages

- Simplified operation and control of the panel functions

- Remote 7" touch display and operating panel can be connected via POE , Power over Ethernet'.

... Lots inside ...

The technology guarantees future-proof expansion and ultimate flexibility for operation and for the support and connection of other equipment.

- High-performance computer unit with a Linux operating system

- Large memory capacity

- Open interfaces

- Forwarding and provision of all EN54-2 relevant common displays and messages

... Lots depending on it!

The DC3500 fire alarm control panel offers integrated network technology with a scalable solution for any application.

- Up to 15 loop cards in one fire alarm control panel (depending on the specifications)

- Total of 1890 loop devices e.g. fire detectors, bus-enabled signalling devices and EVAC boxes possible for each FACP

- Loop-shaped networking of Detectomat fire alarm control panels via the CON-Xnet

CONTROL AND DISPLAY PANEL FOR CON-X NETWORK — GMT4000

VdS-approval   G 208095

Part-No.: **33079**

The control and display panel is an additional display for fire alarm systems from any manufacturer. It is used to control fire alarm system and external system equipment, such as alarm systems or emergency warning systems. It was not designed with specificity

• User-friendly functionality similar to FAT4000 (FBDP) and FBF4000 (FBCP)
• Capacitive key technology
• Redundant connection in the System4000
• Graphical display with six lines and 20 characters per line
• Available for redundant or non-redundant connection as desired
• Four keys for operating the display (scroll up/down, level right/left)
• Three keys for operating the buzzer, testing and the log
• One key for confirming entries for special functions
• Four collective displays: 'Operation', 'Alarm', 'Fault', 'Switch-off'
• Six freely programmable keys (depending on FCP protocol)
• Five individual displays, freely programmable (depending on FCP protocol)
• Acoustic signal
• Log function, ESPA4.4.4 and ESPA-X protocol
• Non-redundant connection to the DC3500 with 1x M4-RS485 interface module (item 32939) or behind the FAT4000 / ADP4000 with 2x M4-RS485 interface module (item 32939) is possible. The required interface modules are not included in the delivery package.
• Connection via Ethernet possible (the required M4-ETHR2 interface adapter is not included in the delivery package)
• Programming software Prog4000 + mini-USB cable
• Also available with film without additional keys
• Release via key switch possible
• Also available with film without additional keys
• Release via key switch possible

Technical Data

Supply Voltage	10 V to 33 V DC
Quiescent Current	Approx. 35 mA/21 mA
Alarm Current	Approx. 100 mA/51 mA
Ambient temperature	-5°C to +50°C
Operating temperature	-20°C to +60°C
Storage Temperature	-20°C to +60°C
Dimensions (H x W xD)	230 x 191 x 36.5 mm
Colour	RAL 7024 (graphite grey)

CON-X ADAPTER FOR DETECT 3004^PLUS — ADP 4000 for CON-X

VdS-approval   G 213058

Part-No.: **33078**

Adapter for CON-X

• For the detect 3004^plus FCP
• RS-232 serial interface for FCP included in scope of delivery
• With ADP-FBF (FBCP) for parallel serial conversion of a conventional FBCP interface
• Provision of redundant connection for the FAT4000 (FBDP) in accordance with DIN EN 54-2 and DIN 14662
• Monitoring of transmission paths in accordance with EN 54-13, type 1
• Up to 16 redundant FBDP/parallel FCPs in one loop
• Up to 31 'slave' FBDP/parallel FCPs on one FAT4000 (stitch)
• USB interface for commissioning the overall system, troubleshooting and maintenance
• Additional serial interface for extensions (e.g. ESPA)
• 7 diagnostic LEDs for quick status analysis
• Adapter designed for mounting on top-hat rail, or optionally in housing
• Adapter assembly for integrating an additional fire alarm system in an existing redundant bus for System4000
• Programming tool Prog4000 included in scope of delivery

Supply Voltage	10 to 30 V DC
Quiescent Current	Approx. 40 mA/30 mA
Operating temperature	-20°C to +60°C
Storage temperature	-20°C to +60°C
Humidity	<96% non-condensing
Dimensions (H x B x T)	115 x 90 x 40 mm
VDS-approval	G 213058

ESPA ADAPTER DIN RAIL — ADP-ESPA-RS485

Part-No.: **32937**

Adapter PCB for connecting the dc3500 FCP to telecommunications or personnel call systems; suitable for non-redundant connection to the dc3500 FCP via RS-485. For connection of external systems in accordance with DIN 14674 and VdS 3531 via ESPA 4.4.4 protocol

• Adapter PCB for mounting on a DIN rail
• Galvanically isolated transmission to telecommunications system
• 3 status LEDs
• Range max. 15 m distance between ADP-ESPA-RS485 and telecommunications/call system
• Range can be increased by changing physical interface RS-232 to RS-422, max. distance 800 m

Technical Data

Supply Voltage	9 V to 30 V DC
Quiescent Current	Approx. 40 mA (24 V)
Operating temperature	0°C to +50°C
Storage temperature	-10°C to +60°C
Dimensions (H x B x T)	90 mm x 115 mm x 25 mm
Weight	140 g

ESPA ADAPTER HOUSING — ADP-ESPA-RS485 in housing

Part-No.: **32938**

- Adapter PCB in separate IP54 housing
- Galvanically isolated transmission to telecommunications system
- 3 status LEDs
- Range max. 15 m distance between ADP-ESPA-RS485 and telecommunications/call system
- Range can be increased by changing physical interface RS-232 to RS-422, max. distance 800 m

Technical Data

Supply Voltage	9 V to 30 V DC
Quiescent Current	Approx. 40 mA (24 V)
Operating temperature	0°C to +50°C
Storage temperature	-10°C to +60°C
Weight	340 g

RS-232 INTERFACE MODULE — M4-RS232iso

Part-No.: **32940**

Module with RS-232 interface, galvanically isolated
Use in FAT4000 (FBDP), ADP4000 possible

- Clear design to prevent mix-ups
- Range approx. max. 15 m distance

Technical Data

Supply Voltage	3.3 V DC
Remarks	Current consumption max. 10 mA

RS-485 INTERFACE MODULE — M4-RS485

Part-No.: **32939**
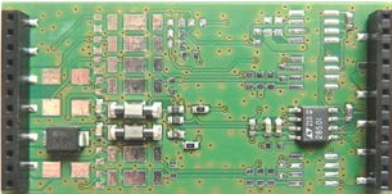
Module with RS-485 interface
Not galvanically isolated
Use in FAT4000 (FBDP), ADP4000 possible

- Power-saving design
- Clear design to prevent mix-ups
- Range approx. max. 800 m distance

Technical Data

Supply Voltage	3.3 V DC
Dimensions (H x B x T)	53 mm x 27 mm x 15 mm
Remarks	Current consumption max. 10 mA

ESPA COUPLING — ESPA coupling ADP4000

Part-No.: **32941**

ESPA4.4.4 extension for ADP4000
M4-RS422 module and ADP-NB422 module including in housing
For connection of external systems in accordance with DIN 14674 and VdS 3531 via ESPA 4.4.4 and ESPA-X protocol
IP54 housing

FIBER OPTIC CONVERTER MULTIMODE FOR DC3500 AND DC3004PLUS	LWL-485-Multimode
	Part-No.: 32747

The interface module LCON is used for the active coupling of RS485 two-wire bus lines with fiber optic transmission lines. When connecting data processing systems, it has been shown that when connecting too many switching groups and/or too long cable length

• Application in System4000
• Coupler RS485 to fiber optic
• Half duplex with fiber optic ST connection
• Fiber multimode
• Optical budget 8(4,2) dB
• FO range 2600 (1400) m
• Status LED
• Connector 9-pin SUB-D female

Technical Data

Operating temperature	0°C / 70°C
Dimensions (H x W x D)	82 x 93 x 22,5 mm
Weight	150g
Current Consumption	250mA

FIBER OPTIC CONVERTER SINGLEMODE FOR DC3500 AND DC3004PLUS	LWL-485-Singlemode
	Part-No.: 32748

The interface module LCON is used for the active coupling of RS485 two-wire bus lines with fiber optic transmission lines. When connecting data processing systems, it has been shown that when connecting too many switching groups and/or too long cable length

• Application in System4000
• Coupler RS485 to FO
• Half duplex with fiber optic ST connection
• max. data rates 3MBit/s
• Fiber monoimode
• Optical budget 17 dB
• FO range 30 km
• Status LED
• Connector 9-pin SUB-D female or screw terminals

Technical Data

Operating temperature	-20°C / 55°C
Dimensions (H x W x D)	61 x 113 x 115 mm
Weight	500 g
Current Consumption	200mA
Operation Voltage	12-30 VDC

POWER SUPPLY IN METALLIC BOX 24V-2A, 7-17 AH EN54-4 CPR	PSUC224S
	Part-No.:

Wall mounting 24Vdc safety power supply unit, 2A version.
Delivered in metallic enclosure able to house batteries with capacity up to 17Ah. (Also available in rack version)

POWER SUPPLY IN BOX 24V-8A	Hephea 248B
	Part-No.:

Power supply box designed to be appropriate for the use as a power unit with a reserve of energy for the supply of a fire detection installation in accordance with the Directive of the Products of Construction CPD 89/106/CEE. The electric and mechanical realization of these products is in conformity with the EN standards 54-4:1997 + A1:2002 + A2:2006, EN12101-10 and EN60950-1:2001.

POWER SUPPLY IN METALLIC BOX 24V-5A, 7-17 AH EN54-4 CPR	PSUC524S
	Part-No.:

Wall mounting, 24Vdc safety power supply unit, 5A version.
Delivered in metallic enclosure able to house batteries with capacity up to 17Ah. (Also available in rack version)

POWER SUPPLY IN BOX 24V-8A	Hephea 248B/R
	Part-No.:

Power supply box in RACK version designed to be appropriate for the use as a power unit with a reserve of energy for the supply of a fire detection installation in accordance with the Directive of the Products of
Construction CPD 89/106/CEE. The electric and mechanical realization of these products is in conformity with the EN standards 54-4:1997 + A1:2002 + A2:2006, EN12101-10 and EN60950-1:2001.

POWER SUPPLY IN METALLIC BOX 24V-5A, 7-17 AH EN54-4 CPR	PSUC524M
	Part-No.:

Wall mounting, 24Vdc safety power supply unit, 5A version.
Delivered in metallic enclosure able to house batteries with capacity up to 27Ah. (Also available in rack version)

POWER SUPPLY 1,5A, VDS — BF562-1

Part-No.: **32744**

Universal primary pulsed mains adapter for the use as an emergency power supply unit to supply 24 V DC with 1,5 A. The device combines several functions: energy supply, battery charger and battery monitoring and meets all requirements of EN 54-4 + A1 + A2. The power supply conforms to (EU) No. 305/2011 - Construction Products Regulation, the 2014/35 / EU - Low Voltage Directive and the 2014/30 / EU - EMC Directive. In addition, it meets also the requirements of EN 50131-6 (type A, up to grade 4, environmental class II, additional sabotage protection required).

- Primary pulsed mains adapter with electronical overload function
- Integrated deep discharge protection (end-of-discharge voltage at discharge current = 21.0 V DC at 0.1 x battery capacity)
- Controlled output voltage 24 V DC
- Intelligent battery management
- Status LEDs for operation, fault (including display of the error type)
- Protection against electric shock (personal protection) with additional plastic protection cover caps

Technical Data	
Supply Voltage	230 V AC / 50 Hz
Output	Potential-free relay output for general fault with a switching capacity of 1 A at 30 V DC
Ambient Temperature	-5°C to +40°C
Humidity	max. 95 % (not condensing)
Protection class	IP 30
Dimensions (H x W x D)	404 mm x 404 mm x 110 mm
Weight	5 kg without batteries
Material	Metal (enclosure and door)
Color	RAL 7035 light-grey with surface structure
Output Current	1,5 A depending on operation mode
Battery capacity	2,0 Ah to 17 Ah
DIN EN	EN 54-4, EN 50131-6
VDS-Approval	G 218033

POWER SUPPLY 3A, VDS — BF562-3

Part-No.: **33969**

Universal primary pulsed mains adapter for the use as an emergency power supply unit to supply 24 V DC with 3 A. Approved according to EN 54-4.

- Primary pulsed mains adapter with electronical overload function
- Integrated deep discharge protection
- Controlled output voltage 24 V
- Intelligent battery management

Technical Data	
Supply Voltage	230 V AC / 50 Hz
Ambient Temperature	-5°C to +40°C
Humidity	max. 95% (not condensing)
Protection class	IP 30
Dimensions (H x W x D)	404 mm x 404 mm x 110 mm
Weight	5 kg without batteries
Material	Metal (housing and door)
Color	Light grey (RAL 7035)
Standards	EN 54-4
Output Current	3 A according to mode of operation
Battery capacity	7,0 Ah to 18,0 Ahe

POWER SUPPLY 5 A, VDS — BF562-5

Part-No.: **33970**

Universal primary pulsed mains adapter for the use as an emergency power supply unit to supply 24 V DC with 5 A. Approved according to EN 54-4 A1 2002, A2 2006 and VdS for the use according to (EU) Nr. 305/2011; 2004/108/EG - EMC and 2006/95/EG low voltag

- Primary pulsed mains adapter with electronical overload function
- Integrated deep discharge protection
- Controlled output voltage 24 V
- Intelligent battery management

Technical Data	
Supply Voltage	230 V AC / 50 Hz
Ambient Temperature	-5°C to +40°C
Humidity	max. 95 % (not condensing)
Protection class	IP 30
Dimensions (H x W x D)	404 mm x 404 mm x 110 mm
Weight	5,25 kg without batteries
Material	Metal (housing and door)
Color	Light grey (RAL 7035)
Standards	EN 54-4
Output Current	5 A according to operation mode
Battery capacity	7 Ah to 18,0 Ah
DIN EN	EN 54-4
VDS-Approval	G 209197

OVERVOLTAGE MODULE RANGE XT-BASIC MODULE — BXT BAS

VdS-approval G 608001

Part-No.: **32495**

Space saving universal base for overvoltage modules without signal interruption for the placement of conductors. A secure earthing of the base is ensured via DIN rail mounting

- 4-pole for all conductor modules suitable
- Exchange of modules is possible without signal interruption
- Maintenance free execution without integrated protective elements
- Mounting and earthing via 35 mm DIN rail according to EN 60715
- Connection via screw clamps up to 4 mm² cable diameter

Technical Data

Protection class	IP 20
Ambient temperature	-40°C to +80°C
Dimensions (H x B x T)	90 mm x 12 mm x 43 mm
Weight	40 g
Material	Polyamid PA 6.6
Colour	yellow
VDS-approval	G 608001
System-approval	S 208123, S 210001
Further approvals	CSA, UL

4-TIMES COMBINATION CONDUCTOR MODULE 24 V FOR SIGNAL CABLE — BXT ML4 BE C 24

VdS-approval G 608001

Part-No.: **32497**

Space saving combined conductor module for the protection of 4 twin wire leads of symmetric interfaces against overvoltage Suitable for the use as protection module for all incoming and outgoing signal lines of the system detect 3000

- Integrated monitoring of the conductor module for thermal and electrical overload status - Life check
- Optimum protective effect for 4 individual wire leads with common reference potential and respectively for assymetric interfaces with galvanic isolation
- Conductor of the type 1 P1 is suitable for the interfaces 0A to 2 and higher according to the lightning protection zone concept
- Mounting and earthing via base BXT BAS
- Connection via screw clamps up to 4 mm² cable diameter at the base

Supply Voltage	24 V
Protection class	IP 20
Ambient temperature	-40°C to +80°C
Dimensions (H x B x T)	45 mm x 12 mm x 51 mm
Weight	27 g
Material	Polyamid PA 6.6
Colour	yellow
Standards	IEC 61643-21, UL 497B
VDS-approval	G 608001
System-approval	S 208123, S 210001
Further approvals	CSA, UL
Remarks	Accessory-Basic module: BXT BAS part-no. 32495

4-TIMES COMBINATION CONDUCTOR MODULE 48 V FOR LOOP CABLE — BXT ML4 BE 48

VdS-approval G 608001

Part-No.: **32496**

Space saving combined conductor module for the protection of 4 individual wire leads with a common reference potential against overvoltage. Suitable for the use as a protection module for all loop wires of the system detect 3000.

- Integrated monitoring of the conductor module for thermal and electrical overload status - LifeCheck
- Optimum protective effect for 4 individual wire leads with common reference potential and respectively for assymetric interfaces with galvanic isolation
- Conductor of the type 1 P1 is suitable for the interfaces 0A to 2 and higher according to the lightning protection zone concept
- Mounting and earthing via base BXT BAS
- Connection via screw clamps up to 4 mm² cable diameter at the base

Technical Data

Supply Voltage	48 V
Protection class	IP 20
Ambient temperature	-40°C to +80°C
Dimensions (H x B x T)	45 mm x 12 mm x 51 mm
Weight	18 g
Material	Polyamid PA 6.6
Colour	yellow
Standards	IEC 61643-21, UL 497B
VDS-approval	G 608001
System-approval	S 208123, S 210001
Further approvals	CSA, UL
Remarks	Accessory-Basic module: BXT BAS part-no. 32495

4-TIMES COMBINATION CONDUCTOR MODULE 5 V FOR LOOP CABLE — BXT ML4 BE HF 5

VdS-approval G 608001

Part-No.: **32498**

Space saving combined conductor module for the protection of 4 individual wire leads with a common reference potential against overvoltage. Suitable for the use as a protection module for all incoming and outgoing data cables in the network of the system detect 3000

- Integrated monitoring of the conductor module for thermal and electrical overload status - LifeCheck
- Optimum protective effect for 4 individual wire leads with common reference potential and respectively for assymetric interfaces with galvanic isolation
- Conductor of the type 1 P1 is suitable for the interfaces 0A to 2 and higher according to the lightning protection zone concept
- Mounting and earthing via base BXT BAS
- Connection via screw clamps up to 4 mm² cable diameter at the base

Technical Data

Supply Voltage	5 V
Protection class	IP 20
Ambient temperature	-40°C to +80°C
Dimensions (H x B x T)	45 mm x 12 mm x 51 mm
Weight	18 g
Material	Polyamid PA 6.6
Colour	yellow
Standards	IEC 61643-21, UL 497B
VDS-approval	G 608001
System-approval	S 208123, S 210001
Further approvals	CSA, UL
Remarks	Accessory-Basic module: BXT BAS part-no. 32495

3D MAPSVIEW :
MONITORING SOFTWARE
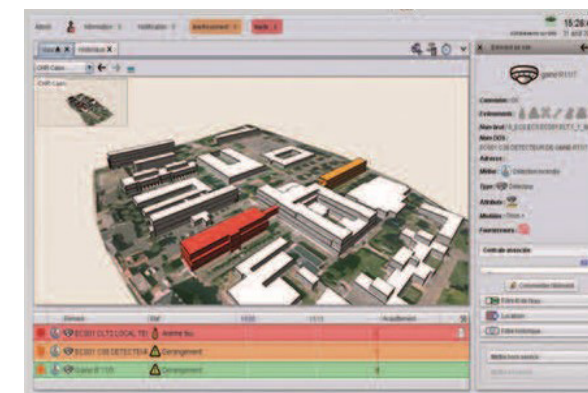
3D online navigation

AUTOCAD files

**Real time synchronisation
with DC 3500 panel**

3D MAPSVIEW BASIC FOR FIRE DETECTION PANEL DC3500/DC520 (STAND ALONE)   3D MAPSVIEW BASIC

3D MapsView monitoring software including 500 points and 1 PC workstation, not expandable

• including 500 detector points (not expandable)
• 1 PC workstation license (not expandable)
• Automatic synchronization with connected system
• 3D graphics interface and navigation
• Configuration online during supervision mode
• Manual mapping points
• Graphic customization
• OPC Solution oriented

3D MAPSVIEW BASIC FOR FIRE DETECTION PANEL DC3500/DC520   3D MAPSVIEW SMART
Part-No.: Smart

3D MapsView monitoring software including 500 points, 1 PC, expandable 2 PC, points, panel

• including 500 detector points (expandable)
• 1 panel (expandable for networks)
• 1 PC workstation license (expandable up to 2 PC)
• Automatic synchronization with connected system
• 3D graphics interface and navigation
• Configuration online during supervision mode
• Manual mapping points
• Graphic customization
• OPC Solution oriented

3D MAPSVIEW BASIC FOR FIRE DETECTION PANEL DC3500/DC520   3D MAPSVIEW STANDARD
Part-No.: MV-Standard
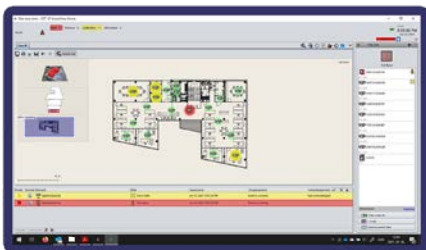
3D MapsView monitoring software including 1000 points, 1 PC, full expandable including MV-MapsBuild.

• including 1000 detector points (expandable)
• 2 panels (expandable)
• 1 PC workstation license (expandable)
• AutoCad converter MV-MapsBuild included
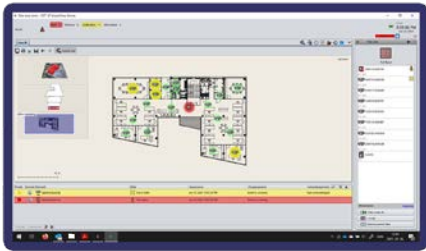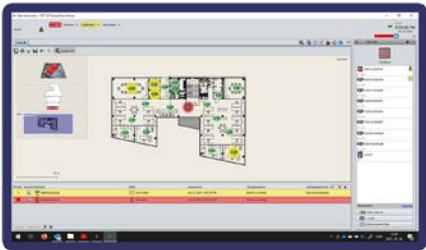• Automatic synchronization of connected subsystems
• 3D graphics interface and navigation
• Configuration online during supervision mode
• Integrated 3D editor (supported formats *.pdf, *.png, *.jpg, *.bmp, *.wmf and others)
• Manual mapping points
• Graphic customization
• OPC Solution oriented

3D MAPSVIEW POINT EXTENSION   MV-500P
Part-No.: MV-500P

3D MAPSVIEW offers simple and convenient solutions for the visualization and remote control of Detectomat fire alarm systems. With the point extension, the software can be flexibly adapted to the required system size.

• Software license for 500 addresses
• For Detectomat fire control panel DC3500/DC520

3D MAPSVIEW FIRE CONTROL PANEL EXTENSION   MV-PANEL
Part-No.: MV-Panel

3D MAPSVIEW offers simple and convenient solutions for the visualization and remote control of Detectomat fire alarm systems. With the panel extension, the software can be flexibly adapted to the required system size for FCP networks.

• Software license for one Detectomat fire control panel DC3500/DC520

3D MAPSVIEW WORKSTATION EXTENSION   MV-CLIENT
Part-No.: MV-Client

3D MAPSVIEW offers simple and convenient solutions for the visualization and remote control of Detectomat fire alarm systems. With the workstation extension, the software can be flexibly adapted to the required system size.

• Software license for one PC workstation (Client) for system control
• For Detectomat fire control panel DC3500/DC520

3D MAPSVIEW BUILDINGPLAN CONVERTER   MV-MAPSBUILD
Part-No.: MV-MapsBuild

3D MAPSVIEW offers simple and convenient solutions for the visualization and remote control of Detectomat fire alarm systems. The file converter makes it possible to integrate CAD drawings into the software and use for visualization of the system.

• Software license for processing of CAD building plans in 3D MAPSVIEW
• Converter for using AutoCAD ® -files (*.dwg, *.dxf und andere)
• Device library for AutoCAD ®

OPC SERVER   OPC-SERVER
Part-No.: OPC-Server

OPC-Interface for integration into 3rd party BMS solutions

DETECTOMAT PROGRAMMING TOOL — DPT 3000

Part-No.: **30136**
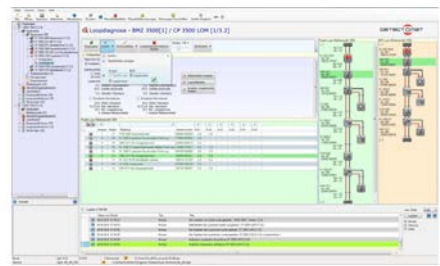
Software tool for the easy programming of fire control panels of the series detect 3004plus, dc3400 and dc3500.

- Windows based software tool with upload and download function for the programming of the functions of the fire control panels of the series detect 3004plus and the network components of the system detect 3000 via PC
- Import and conversion functions for different software versions
- Integrated plausibility check of the configuration according to actual rules and standards
- Option for customer specific texts
- Integrated time function for the time programming of different functions for the fire control panels detect 3004plus and dc3500
- Clearly arranged Windows user interface with print and export function (Word, Excel)
- Controls with programmable delay
- Optimized event log view

LOOP TESTER — LT 3000

Part-No.: **31625**

Programming tool for an easy automatic or manual (scan function) addressing and programming of the components of the Loop3000 via PC

- Stand-Alone device with up- and download function for an easy automatic and manual (scanfunction)
- Addressing and programming of the components of theloop3000 via a personal computer without the installation of a fire control panel
- 1 loop or 2 spurs suitable for connection for the complete test of the detectors/modules instalation or for the test of subareas (e.g. difficult to access areas)
- Including reset key for the reset of the loop tester to a defined basic status
- Complete support of all diagnostic and programming functions for all detector and module data
- Integrated RS-232-interface for bidirectional data communication
- Easy programming and diagnostic and input of customer specific data via diganostic software I-Check 3000
- Unlimited use of all features of the diagnostic software I-Check
- Including 230 V-voltage supply for the diagnostic tool

PROGRAMMING TOOL EASY CHECK — EC 3000

Part-No.: **31482**

Programming tool for the easy manual addressing and programming of the Loop3000 components

- Battery powered Stand- Alone tool with up and downloadfunction for an easy manual addressing and programming of the Loop 3000 components
- Support for diagnostics and programming functions for all detectors and modules
- Easy assignment of customer specific detector data via integrated copy and paste function
- Four line LC Display with backlight and adjustable brightness for a clear display of all values and data
- 16 buttom keypad for an easy use and clearly arranged input of data
- Update option of the device software via integrated RS-232-interface
- Automatic switching off function at no use for higher battery lifetime
- Accoustic warning at low battery

PROTECTION DONGLE FOR DPT — D 3000 dpt

Part-No.: **32208**

Dongle for dpt 3000

PERFORMANCE SPECTRUM
FIRE DETECTORS

THE PERFECT SOLUTION
FOR EVERY APPLICATION

This chapter illustrates our full range of fire detectors.
From optical and thermal fire detectors through to
complex multi-sensor detectors.
They all have one thing in common: Every product and
service that we create is always made with the user in
mind.

We are continually challenging ourselves in every work
aspect, as to how we can make our solutions even
safer, in order to provide perfect protection for
people and their assets.

The illustrated detectors use state-of-the-art
technology
and are scalable to almost any degree. Are you
already
planning an office building with hundreds of
detectors?
Do you need to provide fire protection for a
warehouse?
No problem, our fire protection solutions can be
tailored
exactly for the intended property. The Loop 3000
provides you with a comprehensive system for fast
and reliable fire detection, alarm sounding and
operation. Our products represent reliable and quick
fire detection, high user-friendliness and low
maintenance costs.

Our experience ensures that we are a proven and reliable
partner and you are in good hands with us. Because in
addition to sophisticated products and intelligent soluti-
ons, we can offer you a comprehensive service to match.
Today and in the future.

Mike Bohl

Director Sales, Detectomat GmbH

OVERVIEW
FIRE DETECTORS

BENEFIT

Fast fire detection
- Reduced fire warning time
- Minimal harm to people and buildings

Maximum
- No false alarms, constant monitoring mode
- High user confidence

High user convenience
- Adaptable to various burning characteristics
- Simple design, installation, low liability risk

Easy servicing
- Easy reading of values and parameters
- High durability and reduced service requirements

GENERALISTS

PL 3300 O

PL 3300 T

ALLROUNDER

PL 3300 OTi

PL 3300 OTi Fusion

DESIGN

PL 3301 O

PL 3301 O

PL 3301 O

EQUIPMENT

PL 3305 O

Alarm base Loop 3000

CONUS PL und CONUS CT

Explanation   ● Optical   Thermal   CO alarm   Humitec   Fusion

THE GENERALISTS –
FOR ALMOST EVERY APPLICATION

Whether in the hotel business, industry or public buildings – our detector product category covers a wide
range of applications. The PL 3300 O optical detector, for example, can be used in areas where no operational air turbidity occurs. This includes such diverse buildings as offices, hotels and short-stay accommodation, hospitals, sales outlets, museums, train stations and airports.

It's no coincidence that optical smoke detectors are the most frequently used automatic fire detectors. Because they have distinct advantages: They react extremely quickly to smouldering plastic, open fires and flames from flammable liquid emissions.

The thermal detectors operate through a thermal measuring unit.

They will either sound their alarm upon exceeding a certain threshold or according to the principle of temperature change. That means, the alarm sounds if the temperature varies within a certain timeframe. In this way, thermal detectors recognise and signal flames at a very early stage, even in challenging environmental conditions.

PL 3300 O

OPTICAL SMOKE DETECTOR

The PL 3300 O is an optical smoke detector for the Loop 3000 system for early fire detection and signalling. It uses two optical transmitter diodes conforming to EN 54-7, one for the smoke measurement path and one for the contamination measurement path. A bidirectional isolator conforming to EN 54-17 is built in.

Overview of functions of PL 3300 O:

- Built-in professional smoke measurement system with highest reliability
- Detects contamination on a separate, independent measurement path
- Detector sensitivity levels can be set to adjust automatically or freely programmed
- System monitoring for the measurement chamber signal and the Loop 3000 electronics, hence maximum intelligence in evaluation
- Allows automatic or manual addressing to Loop 3000

Application area:

- Industrial, commercial, administrative, hotels, public buildings

PL 3300 T

THERMAL DETECTOR

The PL 3300 T is a thermal alarm with differential and maximum response behaviour for the Loop 3000. To detect fires at an early stage even in difficult environmental conditions and to signal them, the PL 3300 T uses two thermal measurement points as per EN 54-5. A bidirectional isolator conforming to EN 54-17 is built in.

Overview of functions of PL 3300 T:

- Thermal alarms approved under EN 54-5 in temperature classes A1R, A1S (A1) und A2R, A2S (A2)
- The detector can be used separately as a maximum detector (static --> A1S, A2S) or as a differential detector with a maximum threshold (differential and static --> A1R, A2R) via the freely programmable or automatically adjustable sensitivity settings on the central fire alarm system
- Allows automatic or manual addressing to Loop 3000
- Alarm output to activate a remote detector indicator

Application area:

- Industrial, commercial, administrative, hotels, public buildings

THE ALLROUNDER -
WHEN THINGS GET DIFFICULT

The OTi detector range is the all-round fire detector; especially when designers and builders are faced with complex specifications under difficult conditions; or with special legal requirements or object-specific fire protection requirements such as those for prisons, residential homes and all buildings with special evacuation and safety regulations.

Intelligent optical-thermal multi-sensor detectors are the perfect choice for the early and reliable detection of flames, even in challenging environmental conditions. The multi-sensor technology makes the detectors insensitive to disturbances. At the same time, they are particularly sensitive. The multi-sensor technology ana-lyses different light spectrums and correlates the results algorithmically with one another. This allows flames to be detected at an early stage. The technology even detects pollution or condensation and assimilates it accordingly. This minimises false alarms.

PL 3300 OTi

MULTI-SENSOR DETECTOR

The PL 3300 OTi is an intelligent optical-thermal multi-sensor detector for Loop 3000. Featuring two optical and two thermal sensors, it detects and signals fires at an early stage. Even under difficult conditions. A bidirectional isolator conforming to EN 54-17 is built in. The PL 3300 OTi is certified to EN54-5, 7, 17 and 29.

Overview of functions of PL 3300 OTi:

- Built-in professional smoke measurement system with highest reliability [plus] two thermal measurement points to EN 54-29
- Classes A1R, A1S (A1) and A2R, A2S, (A2)
- Humitec®: An integrated measurement system with an algorithm for condensation detection
- Intelligent evaluation of analyses; disturbance variables such as cigarette smoke are suppressed
- Optical and thermal sensor signal are linked intelligently via an algorithm and thus guarantee highest operational reliability
- Alarm sensitivity can be automatically adjusted or freely programmed

Appliciation area:

- Industry, warehouses, areas with difficult environmental conditions such as fluctuating temperatures, moisture, smoking areas etc.

PL 3300 OTi FUSION

MULTI-SENSOR DETECTOR

The PL 3300 OTi Fusion is an optical-thermal multi-sensor detector for Loop 3000 to detect and signal fires at an early stage. Like the PL 3300 OTi, it features two optical and two thermal sensors that are linked together and is certified to EN 54-5, 7 and 29. A bidirectional isolator conforming to EN 54-17 is built in.

In addition to the Humitec® method of condensation detection, Fusion® technology is also used in this unit. Its wideband white-light LED quickly detects even the smallest smoke particles, and hence also fires, at an early stage. Conventional smoke detectors are unable to detect these small smoke particles, which reflect light very little, with the same level of reliability. The PL 3300 OTi Fusion analyses multiple light spectra and therefore responds faster and more sensitively. Conventional optical smoke detectors evaluate only infra-red light with a longer wavelength, while the OTi Fusion also analyses white light with significantly shorter wavelengths. It can thus detect even the smallest aerosols and responds significantly faster to chemical substances etc., open fires and fires with a high heat build-up.

Overview of functions of PL 3300 OTi Fusion:

- Fusion® technology: Uses a wideband white-light LED to quickly detect even the smallest smoke particles, and hence also fires, at an early stage
- Humitec®: An integrated measurement system with an algorithm for condensation detection
- Intelligent evaluation of analyses; disturbance variables such as cigarette smoke are suppressed
- Optical and thermal sensor signal are linked intelligently via an algorithm and thus guarantee highest operational reliability
- Built-in professional smoke measurement system with highest reliability plus two thermal measurement points to EN 54-5 classes A1R, A1S (A1) and A2R, A2S
- Alarm sensitivity can be automatically adjusted or freely programmed
- Additional, independent optical measurement paths capture contamination levels
- Allows automatic or manual addressing on Loop 3000
- Attended and unattended modes with freely selectable sensitivities

Application area

- Penal institutions, arrest cells, smoking rooms, industrial areas in which fires occur with dark smoke, warehouses, areas with difficult environmental conditions such as fluctuating temperatures or moisture

DESIGN -
AESTHETICS MEETS FUNCTIONALITY

Whether for a new 5 star hotel, those prestigious company headquarters or that trendy gallery – nowadays fire protection needs to blend in with your surroundings; because the way that function and design work together will ultimately determine your user acceptability.

The requirements for modern fire protection design are: as much design as necessary, as much technology as possible. Dectomat's well-designed detectors can be integrated with any type of building. They are discreet and ageless as the components generally last for many years. Users are quickly discouraged by detectors which are only based on short-lived trends.

PL 3301 O

OPTICAL SMOKE DETECTOR

white   silver   black

Optical smoke detector in an attractive design for the Loop 3000 system for early fire detection and signalling. This model uses two optical transmitter diodes conforming to EN 54-7, one for the smoke measurement path and one for the contamination measurement path. A bidirectional isolator conforming to EN 54-17 is built in. Fitted with an airy metal grid in a hexagon design, this smoke detector is a handsome lifesaver.

Overview of functions of PL 3301 O:

- Built-in professional smoke measurement system with highest reliability
- Detects contamination on a separate, independent measurement path
- Detector sensitivity levels can be set to adjust automatically or freely programmed
- System monitoring for the measurement chamber signal and the Loop 3000 electronics, hence maximum intelligence in evaluation
- Allows automatic or manual addressing to Loop 3000

Application area:

- Industrial, commercial, administrative, hotels, public buildings
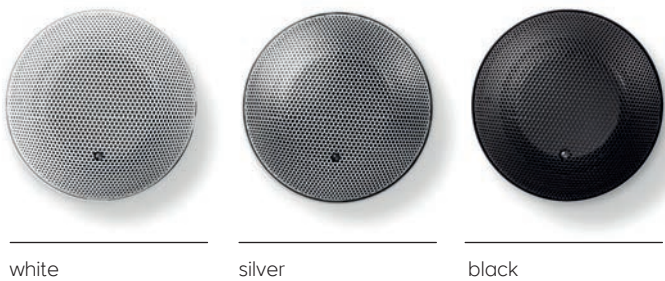
PL 3305 O

OPTICAL SMOKE DETECTOR

white   silver

Optical smoke detector for the Loop 3000 system for early fire detection and signalling. This model uses two optical transmitter diodes conforming to EN 54-7, one for the smoke measurement path and one for the contamination measurement path. A bidirectional isolator conforming to EN 54-17 is built in. The highly polished, slightly tinted toughened safety glass is made of a single specially heat-treated pane. Combined with the appealing grid structure, the result is a sure eye-catcher.

Overview of functions of PL 3305 O:

- Built-in professional smoke measurement system with highest reliability
- Detects contamination on a separate, independent measurement path
- Detector sensitivity levels can be set to adjust automatically or freely programmed
- System monitoring for the measurement chamber signal and the Loop 3000 electronics hence maximum intelligence in evaluation
- Allows automatic or manual addressing to Loop 3000

Application area:

- Industrial, commercial, administrative, hotels, public buildings
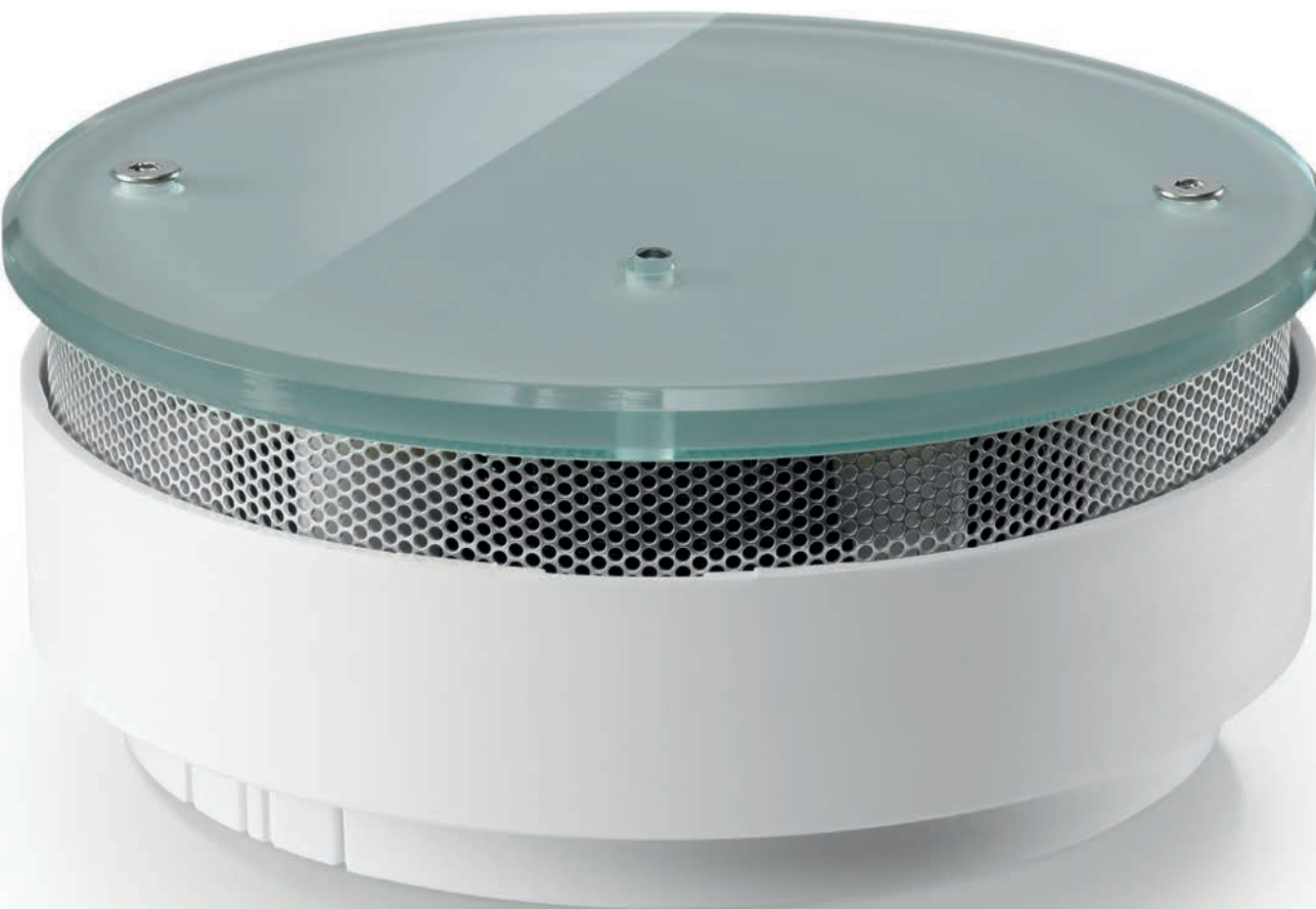
DETECTOR CHANGE

FOR ENDURING FUNCTIONALITY.

The sensors in our detectors are permanently active and continiously perform measurements to ensure that fire characteristics are recognized at early stage. As consequence these sensors are subject to a wear out due to this steady availibilty.

Modern technologies combined with regular service and maintenance ensure reliable and permanent measurements. Nevertheless a rotational change of detectors is necessary to ensure a high availability and security.

Operaters of fire detection systems demanded according to DIN 14675 have to ensure the maintenance and servicing according to the regulations. To ensure this liability for premises we recommend to replace the detetors on a regular basis.

DISPOSAL RECOMMENDATIONS
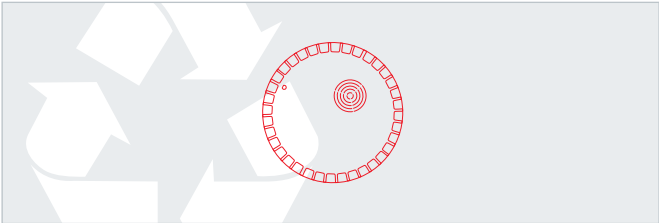
Detectors of the HD-Series
In Germany end users can hand over the stand alone detectors directly at a recycle company.
The costs for an appropriate disposal of the included Lithium batteries in Germany are already covered by us as manufacturer.
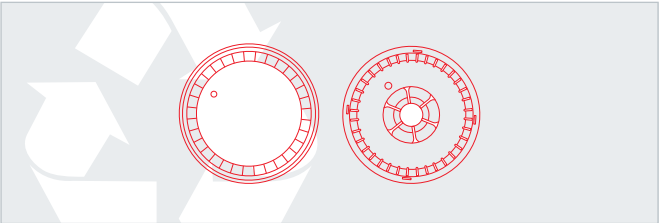
Detectors of the CT- and PL- Series
Detectors of the CT- and PL-series, which are used in industrial application should be handed over to a certified disposal company.
For this diferent disposal code could be identified wih the disposal company. Detectomat e.g. depollutes the devices under disposal code
„Gebrauchte Geräte AVV 160214".160214" entsorgen.

Interval for the exchange of Detectomat detectors

Interval	Detector	Applicable standard
Change after 5 Years	CT 3000 T, CT 3000 O, CT 3001 O, CT 3005 O, CT 3000 OT	DIN 14675 Point c
Change after 8 Years	PL 3200 O, PL 3200 T, PL 3300 O, PL 3301 O, PL 3305 O, PL 3308 O, PL 3300 T, PL 3300 OTi, PL 3300 OTi Fusion	DIN 14675 Point b
Change after 10 Years	HDv sensys, HDv 3000 TS, HDv 3000 OS, HDv 3001 OS, HDv 3005 O, HDv 3007 OS, HDv 3008 OS	DIN 14676 Paragraph 6.5

LIABILITY FOR PREMISES – SHORT EXPLENATION

▸ With the fire alarm replacement, operators of buildings fulfil their traffic safety obligation. The goal: more safety and reduced risk.

The operator of a building has to ensure that the buidling is executed in a way that no one can suffer from this. He has the duty to implement safety precautions to avoid injuries of human beings. Required are precautions that a careful person would regard as necessary to keep danger away from other persons. If such liabilty of premises are not considered it could lead to compensation for damages.

OPTICAL SMOKE DETECTOR WITH ISOLATOR — PL 3300 O

VdS-approval   G 202002

Part-No.: 30011

Optical smoke detector for Loop 3000 with 2 optical sensors for earliest fire detection and indication and with bidirectional isolator according to EN 54-7 and EN 54-17

- Exact pollution recognition by an additional independent measuring chamber
- Detector sensitivities automatically calibrated and freely programmable
- Fault monitoring of the measurement chamber signal and Loop 3000-electronics
- Periodic sensor test
- Automatic and manual addressing with Loop 3000
- Integrated Isolator and T-branch option
- Functions completely integrated via Loop 3000-protocol
- Storage of last maintenance date
- Self learning modes for the ambient conditions
- Storage of last maintenance date
- Multicolour LED for alarm (red) and fault (yellow)
- Standard values and application Software version 42 and up please see additional technical table

Technical Data

Supply Voltage	15 V to 32 V DC on to 2-wire bus (max. 34 V DC)
Quiescent Current	280 µA
Alarm Current	5 mA
Output	OC: max. 10 mA for parallel indicator or buzzer
Protection class	IP 40
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Air velocity	< 20 m/s
Sensitivity	Adjustable in 5 sensitivity levels
Dimensions (H x D)	appr. 44 mm x 100 mm
Material	ABS
Colour	white (similar to RAL 9003)
Standards	EN 54-7, EN 54-17
VDS-approval	G 202002
System-approval	S 210001, S 216001
CE-CPD-Number	0786-CPD-20035

THERMAL DETECTOR WITH ISOLATOR — PL 3300 T

VdS-approval   G 203037

Part-No.: 30010

Heat detector with fixed and rate of rise temperature settings for loop3000 with 1 thermal sensor for earliest fire detection and indication in all environments with difficult ambient conditions and with bidirectional isolator according to EN 54-5 and EN 54-17

- Thermal detector, certified according to EN 54-5 in the temperature classes A1R, A1S (A1) and A2R, A2S (A2) and EN 54-17.
- Individual usage as Maximal detector (static --> A1S, A2S) or as rate of rise with maximum threshold (differential and static --> A1R, A2R) via the free programmable and automatic adjustable settings by the Fire control panel.
- Individual change of the detector class for the sensitivity levels 2 to 4 by using Easy Check 3000
- Periodic sensor test
- Automatic and manual addressing with Loop 3000
- Integrated Isolator and T-branch option
- Alarm output to control parallel indicator
- Functions completely integrated via Loop 3000-protocol
- Freely programmable sensitivity settings for presence/absence
- Storage of last maintenance date
- Mapping of a temperature profile of the panel
- Multicolour LED for alarm (red) and fault (yellow)
- Delivery including protective cover for installation phase

Technical Data

Supply Voltage	15 V to 32 V DC on to 2-wire bus (max. 34 V DC)
Quiescent Current	280 µA
Alarm Current	5 mA
Output	OC: max. 10 mA for parallel indicator or buzzer
Protection class	IP 40
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Sensitivity	Adjustable in 5 sensitivity levels
Dimensions (H x D)	appr. 52 mm x 97 mm
Weight	Appr. 80 g
Material	ABS
Colour	White (similar to RAL 9003)
Standards	EN 54-5 / Temperature classes: A1R, A1S (A1) and A2R, A2S (A2) and EN 54-17
VDS-approval	G 203037
System-approval	S 210001, S216001
CE-CPD-Number	0786-CPD-20044
Further approvals	PAVUS, DBI, GOST-R

MULTI SENSOR DETECTOR INTELLIGENT — PL 3300 OTi

VdS-approval   G 208096

Part-No.: **32150**

Intelligent optical and thermal multi sensor detector for loop 3000 with 2 optical and 2 thermal sensors and a bidirectional isolator for earliest fire detection and indication in all environments with difficult ambient conditions.

- Integrated measurement-system and algorithm for condensation recognition (Humitec®)
- Intelligent analysis and disruption mode for the elimination of false alarms (e.g. cigarette smoke)
- Highest reliability by optimal adjustment of the alarm threshold via intelligent algorithm for the fire detection
- Individual use of the thermal measurement according EN 54-5 in the sensitivity levels 2 to 5 als maximum detector (static --> A1S, A2S) or as Rate of rise detector with maximum threshold (differential and static --> A1R, A2R)
- Adjustment for the detector classes A1R, A1S (A1) and A2R, A2S (A2) sensitivity levels 2 to 5 via Easy Check 3000
- Detector sensitivities automatically calibrated and freely programmable
- Exact pollution recognition by an additional independent measuring chamber
- Fault monitoring of the measurement chamber signal and Loop 3000-electronics
- Periodic sensor test
- Automatic and manual addressing with Loop 3000
- Integrated Isolator and T-branch option
- Functions completely integrated via Loop 3000-protocol
- Storage of last maintenance date
- Self learning modes for the ambient conditions
- Multicolour LED for alarm (red) and fault (yellow)
- Standard values and application Software version 42 and up please see additional technical table

Technical Data

Supply Voltage	15 V to 33 V DC (2-wire bus)
Quiescent Current	320 µA
Alarm Current	5 mA
Output	OC: max. 10 mA for parallel indicator or buzzer
Protection class	IP 40
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Sensitivity	Adjustable in 5 sensitivity levels
Dimensions (H x D)	52 mm x 97 mm (with base)
Weight	appr. 80 g
Material	ABS
Colour	White (similar to RAL 9003)
Standards	EN 54-5 / Temperature classes: A1R, A1S (A1) and A2R, A2S (A2), EN 54-7, EN 54-17, EN 54-29, A2R
VDS-approval	G 208096
System-approval	S 210001, S 216001
CE-CPD-Number	0786-CPD-20578
Further approvals	GOST-R, PAVUS, DBI

MULTI SENSOR DETECTOR FUSION — PL 3300 OTi Fusion

VdS-approval   G 208096

Part-No.: **32149**

Intelligent optical and thermal multi sensor detector for Loop 3000 with 2 optical and 2 thermal sensors and a bidirectional isolator for earliest fire detection and indication in all environments with difcult ambient conditions. Fusion® - Technology for the detection of the smallest smoke particles and fires in the early stage by using the wavelengths of the wideband white light spectrum.

- Integrated measurement-system and algorithm for condensation recognition (Humitec®)
- Intelligent analysis and disruption mode for the elimination of false alarms (e.g. cigarette smoke)
- Highest reliability by optimal adjustment of the alarm threshold via intelligent algorithm for the fire detection
- Individual use of the thermal measurement according EN 54-5 in the sensitivity levels 2 to 5 as maximum detector (static --> A1S, A2S) or as Rate of rise detector with maximum threshold (differential and static --> A1R, A2R)
- Individual use of the thermal measurement according EN 54-29 in the sensitivity levels 2 and 3 maximum detector (static --> A2R) or as Rate of rise detector with maximum threshold (differential and static --> A2R)
- Adjustment for the detector classes A1R, A1S (A1) and A2R, A2S (A2) sensitivity levels 2 to 5 via Easy Check 3000
- Detector sensitivities automatically calibrated and freely programmable
- Exact pollution recognition by an additional independent measuring chamber
- Fault monitoring of the measurement chamber signal and Loop 3000-electronics
- Periodic sensor test
- Automatic and manual addressing with Loop 3000
- Integrated Isolator and T-branch option
- Functions completely integrated via Loop 3000-protocol
- Self learning modes for the ambient conditions
- Storage of last maintenance date
- Multicolour LED for alarm (red) and fault (yellow)
- Standard values and application Software version 42 and up please see additional technical table

Technical Data

Supply Voltage	15 V to 33 V DC (2-wire bus)
Quiescent Current	320 µA
Alarm Current	5 mA
Output	OC: max. 10 mA for parallel indicator or buzzer
Protection class	IP 40
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Sensitivity	Adjustable in 5 sensitivity levels
Dimensions (H x D)	52 mm x 97 mm (with base)
Weight	appr. 80 g
Material	ABS
Colour	White (similar to RAL 9003)
Standards	EN 54-5 / Temperature classes: A1R, A1S (A1) and A2R, A2S (A2), EN 54-7, EN 54-17, EN 54-29, A2R
VDS-approval	G 208095
System-approval	S 210001, S 216001
CE-CPD-Number	0786-CPD-20580
Further approvals	GOST-R, PAVUS, DBI

OPTICAL SMOKE DETECTOR WITH ISOLATOR, DESIGN 01-WHITE — PL 3301 white

VdS-approval   G 205046 — Part-No.: **30956**

Optical smoke detector for Loop 3000 with 2 optical sensors for earliest fire detection and indication and with bidirectional isolator according to EN 54-7 and EN 54-17

- Exact pollution recognition by an additional independent measuring chamber
- Detector sensitivities automatically calibrated and freely programmable
- Fault monitoring of the measurement chamber signal and Loop 3000-electronics
- Periodic sensor test
- Automatic and manual addressing with Loop 3000
- Integrated Isolator and T-branch option
- Functions completely integrated via Loop 3000-protocol
- Self learning modes for the ambient conditions
- Storage of last maintenance date
- Multicolour LED for alarm (red) and fault (yellow)

Technical Data

Supply Voltage	15 V to 34 V DC (2-wire bus)
Quiescent Current	280 µA
Alarm Current	5 mA
Output	OC: max. 10 mA for parallel indicator or buzzer
Protection class	IP 40
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Sensitivity	Adjustable in 5 sensitivity levels
Dimensions (H x D)	appr. 47 mm x 110 mm
Material	Metal cover, ABS
Standards	DIN EN 54-7, EN 54-17
VDS-approval	G 205046
System-approval	S 210001, S 216001
CE-CPD-Number	0786-CPD-20037
CE-CPR-Number	0786-CPR-20037

OPTICAL SMOKE DETECTOR WITH ISOLATOR, DESIGN 01-SILVER

VdS-approval   G 205046

PL 3301 O silver

Part-No.: 30488

OPTICAL SMOKE DETECTOR WITH ISOLATOR, DESIGN 01-BLACK

VdS-approval   G 205046

PL 3301 O black

Part-No.: 30525

OPTICAL SMOKE DETECTOR WITH ISOLATOR, DESIGN 05-WHITE — PL 3305 white

VdS-approval   G 204089 — Part-No.: **30567**

Optical smoke detector for Loop 3000 with 2 optical sensors for earliest fire detection and indication and with bidirectional isolator according to EN 54-7 and EN 54-17

- Exact pollution recognition by an additional independent measuring chamber
- Detector sensitivities automatically calibrated and freely programmable
- Fault monitoring of the measurement chamber signal and Loop 3000-electronics
- Periodic sensor test
- Automatic and manual addressing with Loop 3000
- Functions completely integrated via Loop 3000-protocol
- Storage of last maintenance date
- Self learning modes for the ambient conditions
- Mapping of a temperature profile of the panel
- Multicolour LED for alarm (red) and fault (yellow)

Technical Data

Supply Voltage	15 V to 34 V DC (2 wire bus)
Quiescent Current	280 µA
Alarm Current	5 mA
Output	OC: max. 10 mA for parallel indicator or buzzer
Protection class	IP 40
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Sensitivity	Adjustable in 5 sensitivity levels
Dimensions (H x D)	appr. 47 mm x 110 mm
Material	ABS, ESG-Glass
Standards	DIN EN 54-7, EN 54-17
VDS-approval	G 204089
System-approval	S 210001, S216001
CE-CPD-Number	0786-CPD-20041
CE-CPR-Number	0786-CPR-20041

OPTICAL SMOKE DETECTOR WITH ISOLATOR, DESIGN 05-WHITE — PL 3305 silver

VdS-approval   G 204089 — Part-No.: **30568**

DETECTOR BASE LOOP 3000 S - WHITE — SDBB 3000 S white

VdS-approval	G 204089	Part-No.: **32241**

Detector Base with integrated bridge suitable for all detectors of Loop 3000

• Integrated wire link between minus contacts for ensurance of a closed loop at removal of detector
• Bridge opens automatically at installation of the detector in the base
• Integrated connectors for LED indicator (Art.-No. 31193) or piezo buzzer Art.-No. 32091
• Space for additional connectors Type WAGO 243
• Integrated terminals for connection of a branch as loop expansion (T-Junction)
• Mounting space for the piezo buzzer (Art.-No. 32091) and the detector labelling clip Art.-No. 30479
• Integrated cable tie clamping for strain relief
• Perforations for lateral cable entries
• Prepared bracket for AOM-S and relay module

Technical Data

Dimensions (H x D)	21 mm x 95 mm
Material	ABS
Colour	White (similar to RAL 9003)

DETECTOR BASE LOOP 3000 - SILVER — SDBB 3000 silver

		Part-No.: **32084**

Detector Base with integrated bridge suitable for all detectors of Loop 3000

• Bridge opens automatically at installation of the detector in the base
• Integrated connectors for LED indicator (Art.-No. 31193) or piezo buzzer Art.-No. 32091
• Space for additional connectors Type WAGO 243
• Integrated terminals for connection of a branch as loop expansion (T-Junction)
• Mounting space for the piezo buzzer (Art.-No. 32091) and the detector labelling clip Art.-No. 30479
• Prepared holder for relay module

Technical Data

Dimensions (H x D)	21 mm x 95 mm
Material	ABS

DETECTOR BASE LOOP 3000 - WHITE — SDBB 3000 white

VdS-approval	G 204089	Part-No.: **31959**

Detector Base with integrated bridge suitable for all detectors of Loop 3000

• Integrated wire link between minus contacts for ensurance of a closed loop at removal of detector
• Bridge opens automatically at installation of the detector in the base
• Integrated connectors for LED indicator (Art.-No. 31193) or piezo buzzer Art.-No. 32091
• Space for additional connectors Type WAGO 243
• Integrated terminals for connection of a branch as loop expansion (T-Junction)
• Mounting space for the piezo buzzer (Art.-No. 32091) and the detector labelling clip Art.-No. 30479
• Integrated cable tie clamping for strain relief
• Perforations for lateral cable entries
• Prepared bracket for AOM-S and relay module

Technical Data

Dimensions (H x D)	21 mm x 95 mm
Material	ABS
Colour	White (similar to RAL 9003)

DETECTOR BASE LOOP 3000 - BLACK — SDBB 3000 black

		Part-No.: **32083**

Detector Base with integrated bridge suitable for all detectors of Loop 3000

• Integrated wire link between minus contacts for ensurance of a closed loop at removal of detector
• Bridge opens automatically at installation of the detector in the base
• Integrated connectors for LED indicator (Art.-No. 31193) or piezo buzzer Art.-No. 32091
• Space for additional connectors Type WAGO 243
• Integrated terminals for connection of a branch as loop expansion (T-Junction)
• Mounting space for the piezo buzzer (Art.-No. 32091) and the detector labelling clip Art.-No. 30479
• Prepared holder for relay module

Technical Data

Dimensions (H x D)	21 mm x 95 mm
Material	ABS

DETECTOR LABELING CLIP BLANK — MBC

Part-No.: 30479

The detector labeling clip is used to display the detector and zone number of the device and is connectable to all Detectomat standard bases

• Plugs directly onto the detector base
• Maximum character height of 25 mm

Technical Data	
Dimensions (H x D)	28 mm x 45 mm
Material	ABS
Remarks	Contains 30 pcs

DESIGN RING FOR FLUSH MOUNT-SILVER — DR45 silver

Part-No.: 31684

Architectural modern designed installation set for a flush mount installation of detectors of the series Loop 3000 and CT 3000 in „05 Design" suitable for e.g. suspended ceilings

• Designring for detectors PL 3305 O and CT 3005 O
• Easy installation with screw holder
• Compatible with all detector bases of the loop3000 system
• Colour-coordinated with detectors in glass design

Technical Data	
Installation hole	120 mm
Duct depth	
Inner diameter	110 mm
Outer diameter	165 mm
Material	sheet metal, coated
Colour	silbern, RAL 9006

DESIGN RING FOR FLUSH MOUNT-WHITE — DR45 white

Part-No.: 32070

Architectural modern designed installation set for a flush mount installation of detectors of the series Loop 3000 and CT 3000 in "05 Design" suitable for e.g. suspended ceilings

• Designring for detectors PL 3305 O and CT 3005 O
• Easy installation with screw holder
• Compatible with all detector bases of the loop3000 system
• Colour-coordinated with detectors in glass design

Installation hole	120 mm
Duct depth	
Inner diameter	110 mm
Outer diameter	165 mm
Material	sheet metal, coated
Colour	White (similar to RAL 9003)

PROTECTION CAGE FOR DETECTORS — SG

Part-No.: 32267

Protective cage for the mechanical protection of detectors of the series CT 3000 and Loop 3000 for the application in e.g. sport halls or leisure centers

• Protection of the detector against foreign objects like e.g. balls or other objects with a solid metal grid
• Compatible to detectors of the design variants 0, 1 and 2
• Installation of the protection cage after the device installation (screw fixation)
• Cable entry from the back required for the detector base, siren and beacon

Technical Data	
Dimensions (H x D)	75 mm x 150 mm
Weight	appr. 150 g
Material	steel
Colour	White

PROTECTION CAGE FOR DETECTORS TYPE 2 — SG 2
Part-No.: 32984

Protective cage for the mechanical protection of detectors of the series CT 3000 and loop3000, sirens and beacons for the application in e.g. sport halls or leisure centers

• Protection of the detector, siren or beacon against foreign objects like e.g. balls or other objects with a solid metal grid
• Compatible to detectors of the design variants 0, 1 and 2, as well as Conus range
• Installation of the protection cage after the device installation (screw fixation)
• Cable entry from the back required for the detector base, siren and beacon

Technical Data

Dimensions (H x D)	90 mm x 180 mm
Weight	appr. 210 g
Material	steel
Colour	White

DETECTOR MOUNTING FOLDING BRACKET 0-110° — MKK
Part-No.: 30188

Detector folding bracket for the mounting of detectors of the series CT 3000 and loop3000 at suitable ceilings (e.g. production halls)

• Inclination infinitely variable from 0° to 110°
• Adjustment of the inclination via screw
• Rear cable entry in the detector possible

Technical Data

Dimensions (H x B x T)	150 mm x 117 mm x 13 to 154 mm
Weight	430 g
Material	Sheet metal, powder coated
Colour	RAL 7035 light grey

DETECTOR MOUNTIG BRACKET 270-480 MM — MKBD
Part-No.: 30187

Detector bracket for the mounting of detectors of the series CT 3000 and Loop 3000 in false floors and false ceilings

• Infinitely variable from 270 to 480 mm
• Inclination infinitely variable from 0° to 110°
• Rear cable entry in the detector possible

Technical Data

Dimensions (H x B x T)	135 mm x 100 mm x 270 to 480 mm
Weight	1200 g
Material	Sheet metal, powder coated
Colour	RAL 7035 light grey

DETECTOR MOUNTING DISTANCE BRACKET 80 MM — MAK
Part-No.: 30189

Detector distance bracket for the split mounting of detectors of the series CT 3000 and loop3000 to horizontal ceilings

• Distance to the wall: 80 mm
• Rear cable entry in the detector possible

Technical Data

Dimensions (H x B x T)	80 mm x 138 mm x 100 mm
Weight	330 g
Material	Sheet metal, powder coated
Colour	RAL 7035 light grey

DETECTOR MOUNTING WALL BRACKET 400 MM — WA 4

Part-No.: **30190**

Wall bracket for the mounting of detectors of the series CT 3000 and Loop 3000, e.g. for the use with fire protection closures

- Distance to the wall: 400 mm
- Rear cable entry in the detector possible

Technical Data

Dimensions (H x B x T)	50 mm x 100 mm x 400 mm
Weight	770 g
Material	Sheet metal, powder coated
Colour	RAL 7035 light grey

DETECTOR MOUNTING WALL BRACKET 200 MM — WA 2

Part-No.: **30191**

Wall bracket for the mounting of detectors of the series CT 3000 and loop3000, e.g. for the use with fire protection closures

- Distance to the wall: 200 mm
- Rear cable entry in the detector possible

Technical Data

Dimensions (H x B x T)	50 mm x 100 mm x 200 mm
Weight	390 g
Material	Sheet metal, powder coated
Colour	RAL 7035 light grey

OPTICAL SMOKE DETECTOR FOR VENTILLATION DUCTS WITH ISOLATOR — PL 3300 O/K

VdS-approval   G 204089

Part-No.: **30092**

Optical smoke detector for Loop 3000 with 2 optical sensors for earliest fire detection and indication and with bidirectional isolator according to EN 54-7 and EN 54-17

- Suitable for direct use in environments with air flows of 20 m/s
- Pollution detection of the smoke measurement chamber by an additional optical path
- Detector sensitivities automatically adapted and programmable
- Fault monitoring of the measurement chamber signal and Loop 3000 electronics
- Periodic sensor test
- Automatic and manual addressing with Loop 3000
- Integrated Isolator and T-branch option
- Alarm output to control parallel indicator
- Functions completely integrated via Loop 3000 protocol
- Presence and absence switching with selectable sensitivities
- Storage of last maintenance date
- Multicolour LED for alarm (red) and fault (yellow)

Technical Data

Supply Voltage	15 V to 32 V DC on 2-wire bus (max. 34 V DC)
Quiescent Current	280 µA
Alarm Current	5 mA
Output	OC: max. 10 mA for parallel indicator or buzzer
Protection class	IP 40
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Sensitivity	Adjustable in 5 sensitivity levels
Dimensions (H x D)	appr. 44 mm x 97 mm (with base)
Weight	appr. 80 g
Material	ABS
Colour	Housing white (similar to RAL 9003)
Standards	EN 54-7, EN 54-17
VDS-approval	G 202107
System-approval	S 210001, S 216001
CE-CPD-Number	0786-CPD-20036

DUCT DETECTOR HOUSING FOR PL 3300 O DETECTOR — BTG05-P5901

Part-No.: 40064

Ventilation duct detector housing including suction/suction pipe for use of the PL 3300 O/K detector for detection outside ventilation ducts.

• Ventilation duct detector housing including supply/suction pipe (Pitot tube) for ventilation ducts with a max. width of 500 mm
• For use in ventilation ducts with an air velocity of 1 to 20 m/s
• Suitable for the detector base of the Loop3000 series

Technical Data

Operating Temperature	-10°C to +60°C
Storage Temperature	+10°C to +50°C
Humidity	0,93
Protection class	IP 55
Dimensions (H x B x T)	168 x 220 x 107 mm
Weight	560 g
Material	ABS
Colour	Light gray RAL 7035; cover transparent
Remarks	Detector and base are not included
	< 500 mm

ADAPTER BASE — DAB 3000

Part-No.: 32444

Adapter housing for the installation in finery and for the use in humid environments for all Detecto-mat detector bases.

• Integrated sealing against condensate and dripping water
• 2 cable entry points for cable glands M 16
• Without detector base
• Inclusive accessories:
• - 2 cable glands M16
• - 2 diaphragm noses Type 1
• - 2 screws for base assembly

Technical Data

Protection class	IP 66
Dimensions (H x D)	43,5 mm x 105 mm
Weight	40 g
Material	ABS
Colour	White (similar to RAL 9003)

ADAPTER BASE BASIC WITHOUT FIXTURES — DAB basic

Part-No.: 32779
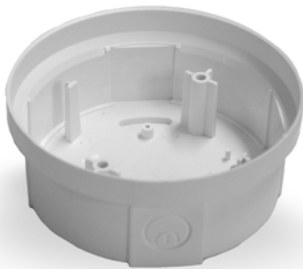
Adapter housing for the installation in finery and for the use in humid environments for all detectomat detector bases - without fixing material.

• Integrated sealing against condensate and dripping water
• 2 cable entry points for cable glands M 16
• Without detector base

Technical Data

Protection class	IP 66
Weight	40 g
Material	ABS
Colour	White (similar to RAL 9003)

MANUAL CALL POINT — PL 3300 MCP

Part-No.: **32433**

Manual Call Point for loop3000 for the manual activation of an alarm with bidirectional isolator according to EN 54-11: A1, EN 54-17. Red plastic housing with imprint „burning house" and „Pozar"

- Manual Call Point mechanics for the activation of a manual alarm
- Non-destructive activation and reset via mechanics
- Automatic and manual addressing with Loop 3000
- Integrated Isolator and T-branch option
- Functions completely integrated via Loop 3000-protocol

Technical Data

Supply Voltage	15 V to 34 V DC (2-wire bus)
Quiescent Current	280 µA
Alarm Current	5 mA
Protection class	IP 32
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	89 mm x 89 mm x 51 mm
Material	ABS
Colour	Red (RAL 3000)
Standards	54-11, 54-17
CE-CPD-Number	0333-CPD-075280

MANUAL CALL POINT, RED — PL 3300 PBDH ABSR

VdS-approval   G 203021

Part-No.: **31669**

Manual Call Point for Loop 3000 for the manual activation of an alarm with bidirectional Isolator and status display via LED according to EN 54-11.

- Push Button mechanics for the activation of a manual alarm
- Activation after smash of the front glass
- Integrated reset mechanics
- Automatic and manual addressing with Loop 3000
- Integrated Isolator and T-branch option
- Potential free alarm output for the activation of e.g. a parallalel indicator
- Functions completely integrated via Loop 3000-protocol
- Integrated red LED for Alarm

Technical Data

Supply Voltage	15 V to 34 V DC (2-wire bus)
Quiescent Current	280 µA
Alarm Current	280 µA; 5 mA, with activated alarm-LED
Output	OC: max. 10 mA for parallel indicator or buzzer
Protection class	IP 42
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	135 mm x 135 mm x 33 mm
Weight	appr. 270 g
Material	ABS, Glass
Standards	DIN EN 54-11, EN 54-17
VDS-approval	G 203021
System-approval	S 210001, S 216001
CE-CPD-Number	0786-CPD-20382
Remarks	Accessories: spare glass part-no. 31910, spare key part-no. 40054

COLOR VARIATIONS

MANUAL CALL POINT, BLUE HAUSALARM

PL 3300 PBD ABS B

Part-No.: 31059

MANUAL CALL POINT, YELLOW LÖSCHANLAGE

PL 3300 PBD ABS Y

Part-No.: 31060

MANUAL CALL POINT, RED

PL 3300 PBDH ALU R

VdS-approval   G 203021

Part-No.: **31668**

Manual Call Point for Loop 3000 for the manual activation of an alarm with bidirectional Isolator and status display via LED according to EN 54-11.

• Push Button mechanics for the activation of a manual alarm
• Activation after smash of the front glass
• Integrated reset mechanics
• Automatic and manual addressing with Loop 3000
• Integrated Isolator and T-branch option
• Potential free alarm output for the activation of e.g. a parallelen indicator
• Functions completely integrated via Loop 3000-protocol
• Integrated red LED for Alarm

Technical Data	
Supply Voltage	15 V to 34 V DC (2-wire bus)
Quiescent Current	280 µA
Alarm Current	280 µA; 5 mA, with activated alarm-LED
Output	OC: max. 10 mA for parallel indicator or buzzer
Protection class	IP 42
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	125 mm x 125 mm x 34 mm
Weight	appr. 495 g
Material	Aluminum
Colour	red (RAL 3000)
Standards	DIN EN 54-11, EN 54-17
VDS-approval	G 203021
System-approval	S 210001, S 216001
CE-CPD-Number	0786-CPD-20382
Remarks	Accessories: spare glass part-no. 31910, spare key part-no. 40054

MANUAL CALL POINT, BLUE

PL 3300 PBD ALU B

Part No.: 31061

MANUAL CALL POINT, YELLOW

PL 3300 PBD ALU Y

Part No.: 31062

MANUAL CALL POINT, ORANGE

PL 3300 PBD ALU O

Part No.: 31657

WEATHER PROTECTION IP54 RED FOR MANUAL CALL POINT ALU

WG R

Part-No.: **31091**

Weatherproof housing for aluminum manual call points

• Robust aluminium protective housing
• Including seal and gasket set for the mounting of the housing
• Sealing and gasket set for a protected cable entry

Technical Data	
Protection class	IP 54
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	145 mm x 131 mm x 55 mm
Weight	appr. 295 g
Material	Aluminum

WEATHER PROTECTION IP54 BLUE FOR MANUAL CALL POINT ALU

WG B

Part-No.: **31092**

Weatherproof housing for aluminum manual call points

• Robust aluminium protective housing
• Including seal and gasket set for the mounting of the housing
• Sealing and gasket set for a protected cable entry

Technical Data	
Protection class	IP 54
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	145 mm x 131 mm x 55 mm
Weight	appr. 295 g
Material	Aluminum

SPARE KEY FOR MANUAL CALL POINT

HFM-SCH-M

Part-No.: **40054**

Key for opening of all manual call points for the series PL 3000 and CT 3000. Die-casting design

SPARE GLASS FOR MANUAL CALL POINTS

HFM EG

Part-No.: **31910**

Replacement glass for manual call points of the series PL 3000 and CT 3000

1 X IN-/OUTPUT MODULE — IOM 3311

VdS-approval   G 205029

Part-No.: **30200**

Intelligent Input/Output module for the Loop 3000 with bidirectional isolator according to EN 54-18 and EN 54-17. With one monitored input and one potential free relay output

- Connecting module with one freely programmable input and one freely programmable output
- Programming of different switching variants of input and output also with time control for one detector group.
- Monitoring of the operating status via Loop 3000
- Independent programming of input and output
- Automatic and manual addressing with Loop 3000
- Integrated Isolator and T-branch option
- Functions über eine Meldegruppe completely integrated via Loop 3000-protocol
- Multicolour LED for alarm (red) and fault (yellow)
- Aestethical robust wall mounted housing according with IP 54

Technical Data

Supply Voltage	15 V to 34 V DC (2-wire bus)
Quiescent Current	460 μA
Alarm Current	460 μA; 5 mA with activated LED
Output	1 relay switchover 30 V DC/1 A
Protection class	IP 54
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	93 mm x 93 mm x 55 mm
Weight	appr. 185 g
Material	ABS
Colour	White
Standards	DIN EN 54-18, 17
VDS-approval	G 205029
System-approval	S 210001, S 216001
CE-CPD-Number	0786-CPD-20459
Remarks	Accessories: With UBW 3311 1A (Art-no. 33542) one monitored output can be realised

2 X IN-/OUTPUT MODULE FOR DC3500 / DC3400(V2.5) — IOM 3322

VdS-approval   G 205029

Part-No.: **30075**

Intelligent Input/Output module for the Loop 3000 with bidirectional isolator according to EN 54-18 and EN 54-17. With two monitored inputs and two potential free relay output

- Connecting module with two freely programmable inputs and two freely programmable outputs
- Programming of different switching variants of input and output also with time control for one detector group.
- Monitoring of the operating status via Loop 3000
- Independent programming of input and output
- Automatic and manual addressing with Loop 3000
- Integrated Isolator and T-branch option
- Functions über eine Meldegruppe completely integrated via Loop 3000-protocol
- Multicolour LED for alarm (red) and fault (yellow)
- Aestethical robust wall mounted housing according with IP 54

Technical Data

Supply Voltage	15 V to 34 V DC (2-wire bus)
Quiescent Current	760 μA
Alarm Current	760 μA; 5 mA wenn Alarm-LED aktiv
Output	Relais je 1 Wechsler 30 V DC/1 A
Protection class	IP 54
Dimensions (H x B x T)	93 mm x 93 mm x 55 mm
Weight	appr. 190 g
Material	ABS
Colour	Light grey (similar to RAL 7035)
Standards	EN 54-17, EN 54-18
System-approval	S 210001, S 216001
CE-CPD-Number	0786-CPD-20459
Remarks	Only for dc3500 or dc3400(V2.5). Acessories: With UBW 3311 1A (Art-no. 3542) monitored output can be realised

FAIL SAFE ANSTEUERMODUL | PL 3321 FSA

VdS-approval   G 218011

Part-No.: **32829**

Intelligent fail-safe control module for the Loop 3000 with an integrated bi-directional isolator for the triggering of technical facilities which necessarily require a fail-safe control. With two supervised inputs (resistance latent 3,3 k Ohm; trigger 3,3 k Ohm ‖ 680 Ohm) and one potential free optical-relay-output. In conjunction with the FCP 3500 the states and programming of the module can be displayed.

• Monitoring of the operating statuses via the Loop 3000
• 2 monitored inputs to be switched very rapidly
• 1 monostable, potentialfree output for fail safe controls
• Integrated bi-directional isolator
• LED service display for alarm (red), fault and sign of life indication (yellow) attached to the housing.
• Robust,weatherproof, halogen-free, impact resistant housing according to DIN EN 60670 (VDE 0606)

Technical Data

Supply Voltage	17 V to 32 V DC (abs. max. 34 V DC), 2-wire-Bus
Quiescent Current	ca. 460 µA
Alarm Current	6 mA / 9,5 mA (add. red LED)
Switched output	1 Optorelay, potentialfree, monostable, fail safe, 30V DC / max. 1A
Protection class	IP 54
Operating temperature	-20°C to +60°C
Storage temperature	-25°C to +85°C
Dimensions (H x B x T)	93 mm x 93 mm x 55 mm
Weight	115 g
Material	Polycarbonate, membrane made of TPE
Colour	Grey
Standards	DIN EN 54-17 ; DIN EN 54-18
VDS-approval	G 218011
Remarks	Use of several PL 3321 FSA per dc3500 No operation in stab modus allowed.

OUTPUT MODULE FOR SIGNALING DEVICES | OMS 3301

VdS-approval   G 205030

Part-No.: **30211**

Intelligent Input/Output module for the Loop 3000 for the control of external optical and acoustic signaling devices with bidirectional isolator according to EN 54-18. Including one monitored fault input and one potential free relay output for signaling devices.

• Integrated automatic switch function of the output at „external signal line on/off" signal by the fire control panel
• Connecting module with one freely programmable fault input and one output for the connection of signalling devices
• Monitoring of the operating status via Loop 3000
• Independent programming of input and output
• Automatic and manual addressing with Loop 3000
• Integrated Isolator and T-branch option
• Functions completely integrated via Loop 3000-protocol
• Multicolour LED for alarm (red) and fault (yellow)
• Programming of different switching variants of input and output also with time control
• Aestethical robust wall mounted housing according with IP 54

Technical Data

Supply Voltage	15 V to 30 V DC (2-wire bus)
Output	1 relay switchover 30 V DC/1 A
Protection class	IP 54
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	93 mm x 93 mm x 55 mm
Weight	appr. 190 g
Material	ABS
Colour	Light grey (similar to RAL 7035)
Standards	DIN EN 54-18, EN 54-17
VDS-approval	G 205030
System-approval	S 210001, S216001
CE-CPD-Number	0786-CPD-20460
Remarks	Accessories: With UBW 3311 -1A (Art.-no. 33542) monitored output can be realised

MONITORING OPTION FOR OMS 3301 UND IOM 3311 — UBW 3311 1A

Part-No.: **33542**
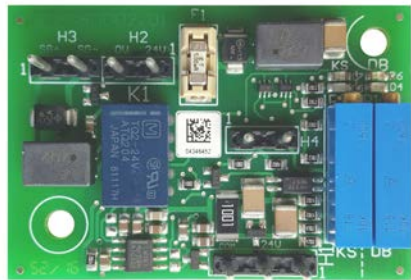
Monitoring module for the use in the modules OMS 3301 and IOM 3311 for triggering of external optical and acoustic signalling devices and monitoring of line faults. Add-on module for the direct mounting into the housing of the modules OMS 3301 and IOM 3311.

• Module for the monitoring of one output line for broken wire and short circuit
• Polarity switchover at activation of the output
• Integrated fault output for the connection to the monitored input of the modules IOM and OMS
• External voltage supply of 24 V DC
• Circuit board for the integration in the module housings IOM 3311 and OMS 3301
• Easy and precise and alignment of the respective signal transmitting line
• Cable length max. 700 m (2 x 0,8mm) or 50 Ohm

Technical Data

Supply Voltage	24 V DC ; 1A
Quiescent Current	25 mA (12 mA UBW + 13 mA test current)
Alarm Current	Up to 1000mA at signalling devices
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	20 mm x 58 mm x 40 mm
Weight	50 g

IN-/OUTPUT MODULE MINI — AMD 3311

VdS-approval   G 206047

Part-No.: **30513**
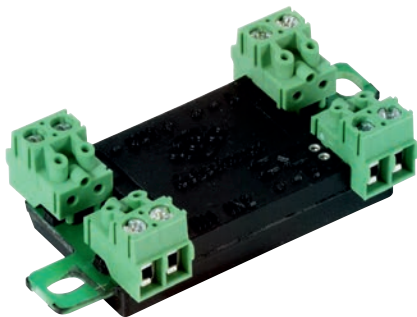
Intelligent Input / Output module mini for the Loop 3000 with bidirectional isolator for the integration in special detectors and externally connected modules according to EN 54-18. Including one monitored input and one open collector output

• Connecting module with one freely programmable input and one freely programmable output
• Additional parallel alarm output (blinking) for the control of a status indicator (without series resistor)
• Programming of different switching variants of input and output also with time control
• Monitoring of the operating status via Loop 3000
• Independent programming of input and output
• Automatic and manual addressing with Loop 3000
• Integrated Isolator and T-branch option
• Completely encapsulated module for the integration in special applications with control by the Loop 3000
• Functions completely integrated via Loop 3000-protocol
• For VdS-conform installation in housing Mini 25L (part-no. 53372)

Technical Data

Supply Voltage	15 V to 30 V DC (2-wire bus)
Quiescent Current	380 µA
Alarm Current	380 µA; 5 mA with activated LED
Output	1 Open collector 500 mA; 1 x 10 mA parallel for status LED
Protection class	IP 30
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	27 mm x 73 mm x 15 mm
Weight	appr. 20 g
Material	ABS
Colour	black
Standards	DIN EN 54-18, EN 54-17
VDS-approval	G 206047
System-approval	S 210001
CE-CPD-Number	0786-CPD-20530

OUTPUT MODULE MINI FOR SIGNALLING DEVICES — OMS 3301 mini

VdS-approval   G 206047

Part-No.: **31640**
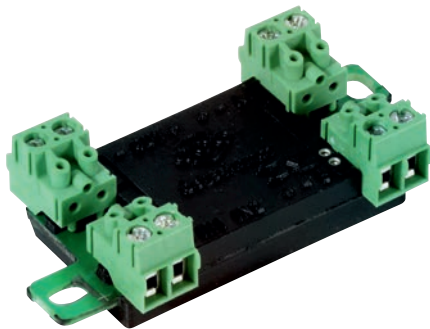
- Integrated automatic switch function of the output at „external signal line on/off" signal by the fire control panel
- Connecting module with one freely programmable fault input and one output for the connection of signalling devices
- Programming of different switching variants of input and output also with time control
- Monitoring of the operating status via Loop 3000
- Independent programming of input and output
- Automatic and manual addressing with Loop 3000
- Integrated Isolator and T-branch option
- Functions completely integrated via Loop 3000-protocol
- Completely encapsulated module for the integration in special applications with control by the Loop 3000

Technical Data

Supply Voltage	15 V to 30 V DC (2-wire bus)
Output	Open Collector 500 mA; 10 mA parallel for status LED
Protection class	IP 30
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	27 mm x 73 mm x 15 mm
Weight	appr. 20 g
Material	ABS
Colour	black
Standards	DIN EN 54-18, EN 54-17
VDS-approval	G 206047
System-approval	S 210001
CE-CPD-Number	0786-CPD-20530

CONVENTIONAL ZONE MODULE — TCM 3300

VdS-approval   G 206048

Part-No.: **30205**

Intelligent Input module for the connection of one conventional detector zone to the Loop 3000 with bidirectional isolator according to EN 54-18. For the connection of conventional detectors with 12 V or 24 V technology.

- Voltage selection for the detector zone supply via „jumper" on the module board
- External supply of conventional detector zones for the flexible use of different conventional detectors with different current consumptions and operation voltages
- Possibility for parametrization of short-circuit, wire break, prealarm and alarm thresholds
- Automatic and manual addressing with Loop 3000
- Integrated Isolator and T-branch option
- Functions completely integrated via Loop 3000-protocol
- Multicolour LED for alarm (red) and fault (yellow)
- Aestethical robust wall mounted housing according with IP 54

Technical Data

Supply Voltage	15 V bis 32 V DC (abs. max. 34 V DC) auf 2-Drahtbus
Quiescent Current	560 µA
Alarm Current	560 µA; 5 mA with activated alarm-LED
Protection class	IP 54
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	93 mm x 93 mm x 55 mm
Weight	appr. 190 g
Material	ABS
Colour	Light grey (similar to RAL 7035)
Standards	DIN EN 54-18, EN 54-17
VDS-approval	G 206048
CE-CPD-Number	0786-CPD-20373
CE-CPR-Number	0786-CPR-20373

ANALYZER UNIT FOR PL-DETECTORS HOUSING TYPE — PCA 3000 m

Part-No.: **32477**

Intelligent analyzer module for the connection of intelligent detectors of the PL-series to evaluate the detector status by collective relay.

• Analyzer module for intelligent devices of the PL-series
• Analyzation and display of alarms via a collective alarm relay respectively collective alarm LED
• Analyzation and display of faults (pollution, measuring chamber, input, broken wire, short circuit) via a collective fault relay respectively collective fault LED
• Complete monitoring of the communication to the devices
• Connection of up to 32 devices of the PL-series (all automatic detectors, PL 3300 MCP, PL 3300 PBDH, IOM 3311 as input module)
• Aestethical robust wall mounted housing according with IP 54

Technical Data

Supply Voltage	24 V DC (±10 %)
Quiescent Current	Type 70mA (max. 200mA)
Alarm Current	Type 120 mA
Output	1 shutter 1 A/30 V DC: 1 opener fault 1 A/30 V DC
Protection class	IP 54
Ambient temperature	-10°C to +60°C
Humidity	5% to 95% (not condensing)
Dimensions (H x B x T)	93 mm x 93 mm x 55 mm
Weight	appr. 135 g
Material	Housing: PC and TPE; Cover : PS
Standards	EN 54-18
CE-CPR-Number	0333-CPR-075548
Further approvals	AFNOR certified

ANALYZER UNIT FOR PL-DETECTORS HOUSING TYPE — PCA 3000 s

Part-No.: **32801**
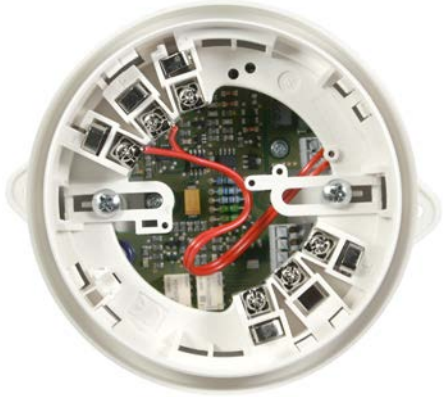
Intelligent Input module - detector base mounted - for the connection of intelligent detectors of the PL-series to evaluate the detector status by collective relay.

• Analyzer module for intelligent devices of the PL-series
• Analyzation and display of alarms via a collective alarm relay respectively collective alarm LED
• Analyzation and display of faults (pollution, measuring chamber, input, broken wire, short circuit) via a collective fault relay respectively collective fault LED
• Complete monitoring of the communication to the devices
• Connection of up to 32 devices of the PL-series (all automatic detectors, PL 3300 MCP, PL 3300 PBDH, IOM 3311 as input module)
• Analyzer unit integrated in the DAB adapter base
• For direct assembly of an automatic detector to the unit/adapter base
• Detector base included

Technical Data

Supply Voltage	24 V DC (±10 %)
Quiescent Current	Type 70mA (max. 200mA)
Alarm Current	Type 120 mA
Output	1 shutter 1 A/30 V DC: 1 opener fault 1 A/30 V DC
Protection class	IP 32 (with detector)
Ambient temperature	-10°C to +60°C
Humidity	5% to 95% (not condensing)
Dimensions (H x D)	72 mm x 128 mm (including optical detector)
Weight	appr. 114 g
Material	ABS
CE-CPR-Number	0333-CPR-075548
Further approvals	AFNOR zertifiziert

EXTINGUISHING CONTROL MODULE FOR DC3500 | PL 3321 ECM G

VdS-approval   G 216010 | Part-No.: **32818**

- According to the requirements of VdS 2496 and VdS 2540
- Monitoring of the status via Loop 3000
- Automatic and manual addressing with Loop 3000
- Integrated bi-directional isolator
- LED Service indicator for alarm (red), fault and life signal (yellow) integrated in the hosuing
- Weatherproof, halogen free and impact resistant housing according to DIN EN 60670 (VDE 0606)

Technical Data	
Supply Voltage	17 V to 32 V DC (abs. max. 34 V DC), 2-wire-Bus
Quiescent Current	appr. 460 µA
Alarm Current	6 mA
Output	1 optical relay potential free
Protection class	IP 54
Ambient temperature	-20°C to +60°C
Storage temperature	-25°C to +85°C
Dimensions (H x B x T)	93 mm x 93 mm x 55 mm
Weight	115 g
Material	Polycarbonate, membranes made of TPE
Colour	Grey
Standards	DIN EN 54-18:2005, EN 54-17:2005
VDS-approval	G 216010
CE-CPR-Number	0786-CPR-21491
Remarks	Only one module ECM per System dc3500 allowed. No operation in stab modus allowed.

ADDRESSABLE SIGNALING DEVICES FOR
LOOP 3000

DETECTOMAT
CONUS II

ADDED-VALUE SIREN...

...is the fitting term for the new multi-tone CONUS II siren.

The volume of the 41 signal tones, which can be individually adjusted in four levels, delivers an optimised acoustic alarm, even in situations where it really needs to be truly loud.

The product range is being expanded once again with the new loop-controlled CONUS II. As a connected loop device, the acoustic signalling device seamlessly joins the CONUS product family.geber nahtlos in die CONUS Produktfamilie ein.

FLEXIBLE...

...for any situation.

Every building's individual hazards are significantly influenced by the building type and how the building is used. Reliable alarm triggering requires optimally coordinated processes.

In connection with the DC 3500* fire control panel, individual signal tones can be used to implement different alarm scenarios, such as fire alarm, evacuation, panic alarm and other building-specific alarms.

INDUSTRY
warning signal

HOTEL
fire alarm

CAMPUS
panic alarm

OFFICE
fire alarm

The new EN 54-3
Certified signalling device
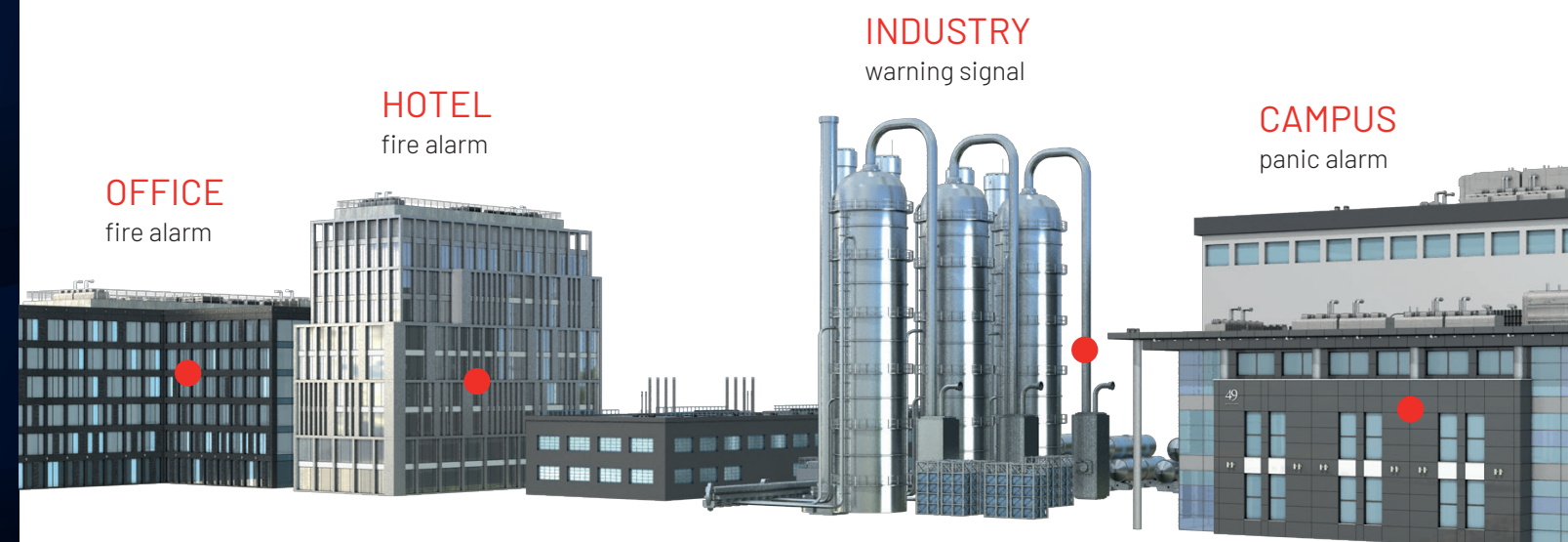
*With software V3.4

WHEN IT REALLY MATTERS...

...it's good to have reserves!

Thanks to the integrated battery, which has an average service life of eight years, the CONUS II can also function as a standalone device.

1 Normal operation

+ loop — − loop

8 years
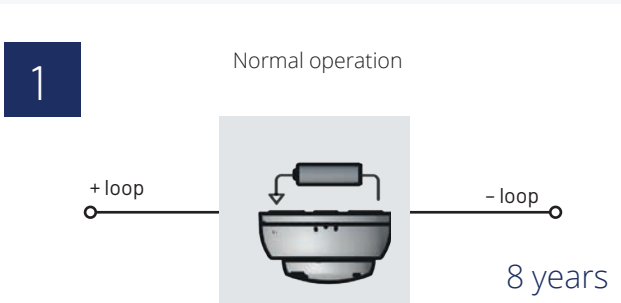
This additional energy source reduces the necessary energy requirement on the loop and allows for 100% uninterrupted alarm triggering in the event of

2 Alarm

+ loop — − loop

buffered
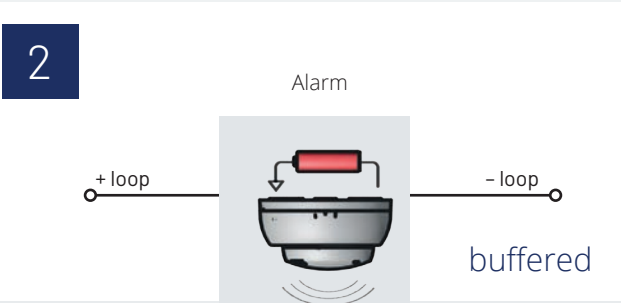
an incident.

If an alarm is triggered, the battery automatically

3 Alarm + fault

+ loop — − loop

independent
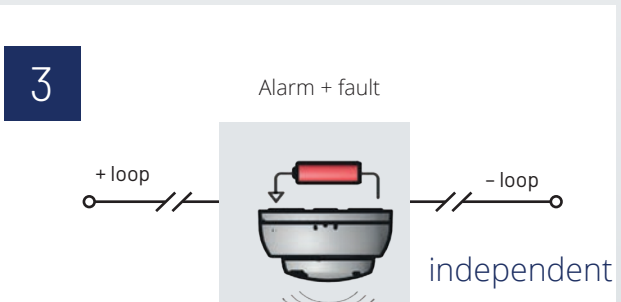
supplies the required power for the acoustic alarm without interruptions.

A wire breakage or short circuit on the loop, repeat-

4

F30**
FCP

secure

ed faults as a result of a fire and even a total failure of the loop will not affect the triggered alarm. Due to the decentralised supply of power to the signalling device, an F30 fire protection housing and cabling with functional integrity are not needed for the acoustic alarm trigger[1]. The material and installation costs are significantly reduced and operational security is increased at the same time.

** F30 fire protection housing
[1] depending on the building and the alarm concept in place

SPACE FOR TWO...

...under one ceiling.

The integrated detector base, when installed in the ceiling, can hold one series PL fire detector.

There are no additional costs for installing the fire detector. If the detector is replaced, only the detector head needs to be handled, rather than the entire unit.

If the CONUS II is intended for operation without an automatic detector, the detector base is closed with a decorative cap.

factory version   *** cap accessory   optional fire detector mit Brandmelder

Flexible use
Can either be used with an automatic integrable PL fire detector or with a decorative cap.
PL–Brandmelder oder mit einer Abdeckkappe.

! **Your Advantage** at a glance

- Construction product as per EN 54-3 with synchronised signal output

- Energy reserves – the integrated long-life battery guarantees an uninterruptible alarm at all times even in the event of a wire breakage or short circuit on the loop, thereby meeting (M)LAR requirements

- Integration in the Loop 3000 topology and permanent monitoring as per DIN VDE 0833-2

- Alarm trigger not affected by repeated loop interruption as per DIN VDE 0833-2 or complete failure of the loop

- Integrated detector base for holding series PL fire detector

- No F30 fire protection housing1 and cabling with functional integrity required thanks to the through market-driven technology and strategy in connection with DEFnetwork, a long-standing French company and Europe's largest independent manufacturer of technical system fire protection, Detectomat GmbH is paving the way for the future.

- Reliable, coordinated, high-quality products for fire detection technology. Development, production and sales with the shared synergy

CONUS II - WHITE

PL 3300w CONUS S

VdS-approval applied for

Part-No.: **33670**

Loop controlled multi-tone sounder for an acoustic alarm according to EN 54-3.

• Up to 126 multi-tone sirens at 3,000 meters loop length with maximum volume
• 100% uninterruptible loop alarm (zero seconds according to MLAR requirement)
• Cost reduction, the integrated battery enables decentralised energy managment, therefore no additional fire protection housing for the BMZ is required
• Full integration into Loop3000 topology (with DC3500 from V3.4)
• Individual configuration via DPT (41 tones incl. DIN tone, 4 different alarm scenarios, 4 volume levels)
• Optimized, homogeneous SPL dispersion
• Integrated automatic reset function for signal, external signal transmitters on/off of the fire alarm control panel.
• Optional automatic or manual addressing.
• Monitoring of the operating status via Loop3000
• Integrated bidirectional isolator according to EN 54-17
• Easy installation, the Sounder base allows quick pre-installation and loop connection
• Designed for wall and ceiling mounting (cover cap available as accessory)
• Integrated base for Loop3000 series automatic detectors (ceiling mounted)
• Long-term investment through physical seperation of signalling and fire detection. The sounder can continue to be used if it is necessary to replace the detector
• Service-friendly due to integrated battery monitoring and runtime pronosis via DPT.
• Aesthetic, robust housing according to IP 41.

Technical Data	
Supply Voltage	15 V to 32 V (abs. max 34)
Battery life time	over 8 years
Quiescent Current	< 400 µA
Alarm Current	Powered by battery
Protection class	IP 41
Sounds	41
Operating temperature	-10°C to +55°C
Humidity	max. 93% (non condensing)
Storage temperature	-20°C to +65°C
Dimensions (H x D)	76 mm x 145 mm x 145 mm
Weight	345 g
Material	ABS
Colour	White (similar to RAL 9003)
Standards	54-3
VDS-approval	applied for
System-approval	planned
Remarks	Accessories Cover cap white, Art.-No. 33692

CONUS II - RED

PL 3300r CONUS S

VdS-approval applied for

Part-No.: **33671**

Loop controlled multi-tone sounder for an acoustic alarm according to EN 54-3.

• Up to 126 multi-tone sirens at 3,000 meters loop length with maximum volume
• 100% uninterruptible loop alarm (zero seconds according to MLAR requirement)
• Cost reduction, the integrated battery enables decentralised energy managment, therefore no additional fire protection housing for the BMZ is required
• Full integration into Loop3000 topology (with DC3500 from V3.4)
• Individual configuration via DPT (41 tones incl. DIN tone, 4 different alarm scenarios, 4 volume levels)
• Optimized, homogeneous SPL dispersion
• Integrated automatic reset function for signal, external signal transmitters on/off of the fire alarm control panel.
• Optional automatic or manual addressing.
• Monitoring of the operating status via Loop3000
• Integrated bidirectional isolator according to EN 54-17
• Easy installation, the Sounder base allows quick pre-installation and loop connection
• Designed for wall and ceiling mounting (cover cap available as accessory)
• Integrated base for Loop3000 series automatic detectors (ceiling mounted)
• Long-term investment through physical seperation of signalling and fire detection. The sounder can continue to be used if it is necessary to replace the detector
• Service-friendly due to integrated battery monitoring and runtime pronosis via DPT.
• Aesthetic, robust housing according to IP 41.

Technical Data	
Supply Voltage	15 V to 32 V (abs. max 34)
Battery life time	over 8 years
Quiescent Current	< 400 µA
Alarm Current	Powered by battery
Protection class	IP 41
Sounds	41
Operating temperature	-10°C to +55°C
Humidity	max. 93% (non condensing)
Storage temperature	-20°C to +65°C
Dimensions (H x D)	76 mm x 145 mm x 145 mm
Weight	345 g
Material	ABS
Colour	White (similar to RAL 9003)
Standards	54-3
VDS-approval	applied for
System-approval	planned
Remarks	Accessories Cover cap white, Art.-No. 33692

10 COVER CAPS FOR CONUS II - WHITE — AP w

Part-No.: **33691**

Cover plate for CONUS signal transmitter when used without automatic detector

- Shapely cover of the integrated detector base
- Cable bridge for closing the open loop without automatic detector included
- Lockable
- Suitable for all variants of the CONUS series
- VE 10 pcs

Technical Data

Material	ABS

10 COVER CAPS FOR CONUS II - RED — AP r

Part-No.: **33692**

Cover plate for CONUS signal transmitter when used without automatic detector

- Shapely cover of the integrated detector base
- Cable bridge for closing the open loop without automatic detector included
- Lockable
- Suitable for all variants of the CONUS series
- VE 10 pcs

Technical Data

Material	ABS

BASE FOR CONUS II - WHITE — Base, PL 3300w CONUS S

Part-No.: **33693**

Base for addressable sounder Conus II white including terminal block for easy connection to Loop 3000

Technical Data

Material	ABS

BASE FOR CONUS II - RED — Base, PL 3300r CONUS S

Part-No.: **33694**

Mounting base for multi-tone signal transmitter CONUS II red, including connection terminal for simple loop connection

Technical Data

Material	ABS

CONUS - LOOP SOUNDER -MLAR - WHITE — PL 3300 S 0 SE M

VdS-approval   G 213054

Part-No.: **32764**

Intelligent acoustic signaling device for the loop3000 for the acoustic alarm with bidirectional isolator according to EN 54-3 and EN 54-17 with MLAR function.

- Activation, monitoring and supply via Loop 3000-protocol
- Integrated automatic reset function at signal „external signal line on/off" by the fire control panel
- Monitoring of the operating status via Loop 3000
- Independent programming via loop address
- Automatic and manual addressing with Loop 3000
- Integrated Isolator
- 28 different tones, adjustable via DIP-switch including DIN-signal
- Loudness adjustable via DIP-switch
- Functions completely integrated via Loop 3000-protocol
- Aesthetical, robust wall mounted housing according with IP 41
- Integrated detector base of the PL 3000 series

Technical Data

Supply Voltage	18 V to 32 V DC (max. 34 V DC)
Quiescent Current	400 µA
Alarm Current	6 mA
Seperator current	max. 0,5 A
Seperator leakage	max. 10 µA
Seperator row	max. 0,65 Ohm
Seperator opened	In case of short circuit or by command of the fire control panel
Seperator closed	By command of the fire control panel
Protection class	IP 41
Sounds	28
Loudness	Up to 95 dB(A) @ 1 m
Loudness control	In 4 steps
Ambient temperature	-10°C to +60°C
Storage temperature	-25°C to +70°C
Humidity	max. 95%
Dimensions (H x D)	66 mm x 145 mm
Weight	285 g
Material	ABS
Standards	EN 54-3 and EN 54-17
VDS-approval	G 213054
System-approval	S 210001, S 216001
CE-CPD-Number	0786-CPR-13004
CE-CPR-Number	0786-CPR-21279
Remarks	For the planning of the quantity of Loop 3000-signaling devices please use the Loop calculator tool.

CONUS - LOOP SOUNDER -MLAR - RED | PL 3300 S 1 SE M

VdS-approval   G 213054

Part-No.: **32765**

Intelligent acoustic signaling device for the loop3000 for the acoustic alarm with bidirectional isolator according to EN 54-3 and EN 54-17 with MLAR function.

- Activation, monitoring and supply via Loop 3000-protocol
- Integrated automatic reset function at signal „external signal line on/off" by the fire control panel
- Monitoring of the operating status via Loop 3000
- Independent programming via loop address
- Automatic and manual addressing with Loop 3000
- Integrated Isolator
- 28 different tones, adjustable via DIP-switch including DIN-signal
- Loudness adjustable via DIP-switch
- Functions completely integrated via Loop 3000-protocol
- Aesthetical, robust wall mounted housing according with IP 41
- Integrated detector base of the PL 3000 series

Technical Data

Supply Voltage	18 V to 32 V DC (max. 34 V DC)
Quiescent Current	400 µA
Alarm Current	6 mA
Seperator current	max. 0,5 A
Seperator leakage	max. 10 µA
Seperator row	max. 0,65 Ohm
Seperator opened	In case of short circuit or by command of the fire control panel
Seperator closed	By command of the fire control panel
Protection class	IP 41
Sounds	28
Loudness	Up to 95 dB(A) @ 1 m
Loudness control	In 4 steps
Ambient temperature	-10°C to +60°C
Storage temperature	-25°C to +70°C
Humidity	max. 95%
Dimensions (H x D)	66 mm x 145 mm
Weight	285 g
Material	ABS
Standards	EN 54-3 and EN 54-17
VDS-approval	G 213054
System-approval	S 210001, S 216001
CE-CPD-Number	0786-CPR-13004
CE-CPR-Number	0786-CPR-21279
Remarks	For the planning of the quantity of Loop 3000-signaling devices please use the Loop calculator tool.

LOOP FLASHER - ORANGE | LB 3300 VXB O

VdS-approval   G 213054

Part-No.: **32090**

Intelligent optical signaling device for the Loop 3000 for the external alarm with bidirectional isolator according to EN 54-17.
Wall mounted housing.

- Activation, monitoring and supply via Loop 3000-protocol
- Integrated automatic reset function at signal „external signal line on/off" by the fire control panel
- Monitoring of the operating status via Loop 3000
- Independent programming via loop address
- Automatic and manual addressing with Loop 3000
- Integrated Isolator and T-branch option
- Integrated 1 Hz LED-beacon
- Functions completely integrated via Loop 3000-protocol
- Aesthetical robust wall mounted housing according with IP 43

Technical Data

Supply Voltage	15 V to 30 V DC (2-wire bus)
Quiescent Current	400 µA
Alarm Current	6 mA
Protection class	IP 43
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Dimensions (H x D)	80 mm x 98 mm
Weight	145 g
Material	ABS
Colour	White

LOOP FLASHER - RED | LB 3300 VXB R

VdS-approval   G 213054

Part-No.: **32058**

Intelligent optical signaling device for the Loop 3000 for the external alarm with bidirectional isolator according to EN 54-17.
Wall mounted housing.

• Activation, monitoring and supply via Loop 3000-protocol
• Integrated automatic reset function at signal „external signal line on/off" by the fire control panel
• Monitoring of the operating status via Loop 3000
• Independent programming via loop address
• Automatic and manual addressing with Loop 3000
• Integrated Isolator and T-branch option
• Integrated 1 Hz LED-beacon
• Functions completely integrated via Loop 3000-protocol
• Aestethical robust wall mounted housing according with IP 43

Technical Data

Supply Voltage	15 V to 30 V DC (2-wire bus)
Quiescent Current	400 µA
Alarm Current	6 mA
Protection class	IP 43
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Dimensions (H x D)	80 mm x 98 mm
Weight	145 g
Material	ABS
Colour	White

LOOP-PARALLEL INDICATOR | PL 3300 PA

VdS-approval   G 208141

Part-No.: **32282**

Intelligent detector parallel indicator for the Loop 3000 for the external optical indication of the installation place of one or more detectors with bidirectional isolator White wall mounting housing, red color.

• Activation, monitoring and supply via Loop 3000-protocol
• Monitoring of the operating status via Loop 3000
• Independent programming via loop address
• Automatic and manual addressing with Loop 3000
• Integrated Isolator and T-branch option
• Aestethical robust wall mounted housing according with IP 30
• Functions completely integrated via Loop 3000-protocol

Technical Data

Supply Voltage	15 V to 32 V DC on to 2-wire bus (max. 34 V DC)
Quiescent Current	400 µA
Alarm Current	6 mA
Protection class	IP 30
Ambient temperature	-10°C to +50°C
Humidity	max. 95%
Dimensions (H x D)	84 mm x 84 mm x 35 mm
Weight	appr. 65 g
Material	ABS
Colour	Housing white, calotte red
Standards	EN 54-17
VDS-approval	G 208141
System-approval	S 210001, S 216001
CE-CPD-Number	0786-CPD-20535

CONVENTIONAL

SYSTEMS

MODULAR CONVENTIONAL PANEL | ALPHA 4/8/12

VdS-approval applied for | Part-No.: **40528**

Modular microprocessor-controlled fire alarm panel for connection of all components of the 05 series. Approved according to EN 54-2: 1997/A1: 2006, EN 54-4: 1997/A1: 2006/A2: 2006 and EN 12094-1.
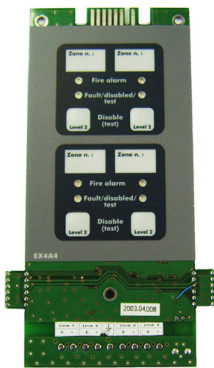
• Simple operation via LED displays and operating keys
• Basic version with 4 conventional groups for subscribers of the 05 series with up to 32 automatic detectors or 10 manual call points per detector group (max. 128 detection points)"
• 1 alarm and 1 fault relay
• 1 monitored siren output 450 mA
• 4 programmable OC outputs, 1 programmable input
• Two expansion slots for flexible system expansion to max. 12 conventional groups(384 detector points)
• Interface card for extinguishing area control available on request
• Interface card for hazardous areas available
• Relay and signaling lines expandable
• Integrated power supply according to EN 54-4: 1997/A1: 2006/A2: 2006
• Independent connection of the detector and signalling devices.
• Individual programming via menu keys, e.g. alarm delay, fast mode, day/night mode
• 3 access level
• Integrated one-man revision mode
• Connection of parallel display panels for collective messages (optional)

Technical Data

Supply Voltage	230 V AC, 50/60 Hz
Emergency Supply	2x 12 V DC / 7,2 Ah
Alarm Current	1 A
Operating Temperature	0°C - 50°C
Dimensions (H x W x D)	300 x 370 x 118 mm
Weight	2 Kg (without batteries)
Material	ABS
Colour	white
Standards	EN 54-2, EN 54-4,

4 ZONES EXPANSION BOARD | EX4A4

Part-No.: **40384**

Extends the ALPHA fire alarm control panel by 4 detector groups.
There is an LED for alarm / fault and a test button for each zone

• Simple operation via LED displays and control buttons
• 4 additional conventional detection lines for up to 32 detectors per line
• A maximum of 2 modules per control panel

Technical Data

Material	EN 54-2, EN 54-4
CE-CPR_Number	1134-CPR-041

4 ZONES ATEX BOARD | EX4A4ex

Part-No.: **40546**
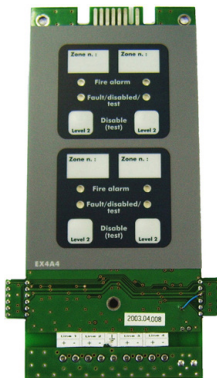
Extends the ALPHA fire alarm control panel by 4 detector groups for intrisically safe detectors. There is an LED for alarm / fault and a test button for each zone

• Simple operation via LED displays and control buttons
• 4 additional conventional detection lines for up to 32 detectors per line
• A maximum of 2 modules per control panel

Technical Data

Material	EN 54-2, EN 54-4
CE-CPR_Number	1134-CPR-041

1 ZONE EXTINGUISHING BOARD | DEAG

Part-No.: **40364**

1 Zone Extinguishing Expansion Board, to be used for management of 1 extinguishing channel. All monitored lines : Extinguishing actuators, Evacuation panels, Release button, Abord button, Low pressure contact.

• Simple operation via LED displays and control buttons
• This board permits to convert ALPHA 4/8/12 panel in a detection extinguishing panel.

Technical Data

Standards	EN 12094-1

4 WAYS RELAY CARD NO-NC 30V/1A | REP4R

Part-No.: **40230**

Additional module for the ALPHA panel with 4 programmable relays (potential-free changeover contact).

• Commanded by open collector outputs of the ALPHA panel

Technical Data

Output	4x 30 V DC / 2 A (potential-free changeover contact)
Standards	EN 54-2, EN 54-4
CE-CPR_Number	1134-CPR-041

12 WAYS RELAY CARD NO-NC 30V/1A — R12P2

Part-No.: **40224**

Additional module for the ALPHA panel with 12 programmable relays (potential-free changeover contact).

- Simple programming via DIP switches
- The R12P2 is connected to the mainboard by flat cable

Technical Data	
Quiescent current	2 mA
Output	12x 30 V DC / 1 A (potential-free changeover contact)
Standards	EN 54-2, EN 54-4
CE-CPR_Number	1134-CPR-041

4 MONITORED SOUNDERS CIRCUIT BOARD — REP4MO

Part-No.: **42229**

Additional module for the ALPHA panel with 4 monitored sounder line outputs.

- The module has 4 separate inputs for the command of each output that can be individually configured to accept a negative control (open-collector) or a positive command (10V..30V).
- The card requires an external power supply to provide the necessary power to each output without loading the lines of command
- The card is also equipped with a general fault relay, potential-free and with both contacts (NO / NC) available
- Outputs protected against overload

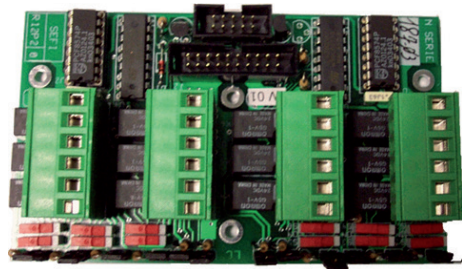| Technical Data	
Operating voltage	From 21 Vdc to 30 Vdc
Consumption in standby	<20mA
Number of outputs	4
Inputs type	Configurable for negative control (OC) / positive control (10Vdc...30Vdc)

12 ZONES FIRE DETECTION CONVENTIONAL PANEL — ALPHA 4/8/12 FBKEY

Part-No.: **40541**

Modular microprocessor-controlled fire alarm panel for connection of all components of the 05 series.

- Simple operation via LED displays and operating keys
- Basic version with 4 conventional groups for subscribers of the 05 series with up to 32 automatic detectors or 10 manual call points per detector group (max. 128 detection points)"
- 1 alarm and 1 fault relay
- 1 monitored siren output 450 mA
- 4 programmable OC outputs, 1 programmable input
- Two expansion slots for flexible system expansion to max. 12 conventional groups (384 detector points)
- Interface card for extinguishing area control available on request
- Interface card for hazardous areas available
- Relay and signaling lines expandable
- Integrated power supply according to EN 54-4: 1997/A1: 2006/A2: 2006
- Independent connection of the detector and signalling devices
- Individual programming via menu keys, e.g. alarm delay, fast mode, day/night mode
- 3 access level
- Integrated one-man revision mode
- Connection of parallel display panels for collective messages (optional)

Technical Data	
Supply Voltage	230 V AC, 50/60 Hz
Emergency Supply	2x 12 V DC / 7,2 Ah
Alarm Current	1 A
Operating Temperature	0°C - 50°C
Dimensions (H x W x D)	300 x 370 x 118 mm
Weight	2 Kg (without batteries)
Material	ABS
Colour	white
Standards	EN 54-2, EN 54-4,

CONVENTIONAL OPTICAL SMOKE DETECTOR — OC05

Part-No.: 40200

Optical smoke detector as conventional detector for early fire detection and alarm, with optical measuring method according to EN 54-7.

- Integrated professional smoke measurement system with the highest level of safety for reliable alarm verification.
- Reliable detector of the smallest cold smoke particles in the initial phase of a fire.
- Alarm output to activate a parallel display.
- Red LED for alarm indication.
- Lockable
- Suitable for Series 05 detector base.

Technical Data

Supply Voltage	13 V DC to 27 V DC
Nominal voltage	20 V DC
Quiescent current	25 µA
Alarm current	32 mA
Output	0 V in standby / 3.3 V DC with alarm
Sensor type	Optical
Type of protection	IP 32
Operating temperature	-10°C to +60°C
Storage temperature	+10°C to +50°C
Humidity	≤ 93 %
Dimensions (H x D)	56 x 104 mm (Diameter)
Weight	130 g
Material	ABS
Colour	White
Standard	EN 54-7
System approval	B-209-FD-936-a (BOSEC)
CPD-number	0333 CPD 075 013
CPR-number	0334 CPR 075 013
Remarks	Detector base must be ordered separately

CONVENTIONAL RATE OF RISE + FIXED HEAT — TRC05

Part-No.: 40290

Thermal detector as conventional detector, for fire alarm detector and alarm, with thermal measuring method according to EN 54-5 (class A1R).

- Integrated professional temperature measuring system with maximum safety for reliable alarm verification.
- Reliable detector of static or dynamically increasing temperature values.
- Especially suitable for average ambient temperatures below +10°C.
- Static response temperature +62°C (+/-3°)
- Dynamic response temperature +62°C (+/-3°)
- Dynamic response temperature > 9°C / min
- Alarm output to activate a parallel indicator
- Red LED for alarm indication
- Lockable
- Suitable for Series 05 detector base

Technical Data

Supply Voltage	15 V DC to 27 V DC
Nominal voltage	20 V DC
Quiescent current	20-30 µA
Alarm current	32 mA
Output	0 V in standby / 3.3 V DC with alarm
Sensor type	Thermal
Protection class	IP 32
Operating temperature	-10°C to +50°C
Storage temperature	+10°C to +50°C
Humidity	≤ 93 %
Dimensions (H x D)	56 x 104 mm (Diameter)
Material	ABS
Colour	White
Standards	EN 54-5 (Class A1R)
System approval	B-209-FD-936-a (BOSEC)
CPD-number	0333 CPD 075 014
CPR number	03334 CPR 075 014
Remarks	Detector base must be ordered separately
Weight	130 g

CONVENTIONAL FIXED HEAT DETECTOR 62°C — TSC05-A1S

Part-No.: **40295**

Thermal detector as conventional detector, for fire alarm detector and alarm, with thermal measuring method according to EN 54-5 (class A1R).

• Integrated professional temperature measuring system with maximum safety for reliable alarm verification.
• Reliable detector of static temperature values
• Static response temperature +62°C (+/-3°)
• Alarm output to activate a parallel indicator
• Red LED for alarm indication
• Lockable
• Suitable for Series 05 detector base

Technical Data

Supply Voltage	13 V DC to 27 V DC
Nominal voltage	20 V DC
Quiescent current	20-30 µA
Alarm current	32 mA
Output	0 V in standby / 3.3 V DC with alarm
Sensor type	Thermal
Protection class	IP 32
Operating temperature	-10°C to +50°C
Storage temperature	+10°C to +50°C
Humidity	≤ 93 %
Dimensions (H x D)	56 x 104 mm (Diameter)
Material	ABS
Colour	White
Standards	EN 54-5 (Class A1S)
System approval	B-209-FD-936-a (BOSEC)
CPD-number	0333 CPD 075 015
CPR number	0334 CPR 075 015
Remarks	Detector base must be ordered separately
Weight	130 g

CONVENTIONAL FIXED HEAT DETECTOR 75°C — TSC05-A1S

Part-No.: **40298**

Thermal detector as conventional detector for early fire detector and signalling, with thermal measuring method according to EN 54-5 (class A1S).

· Integrated professional temperature measuring system with maximum safety for reliable alarm verification.
· Reliable detector of static temperature values
· Static response temperature +75°C (+/-5°C)
· Alarm output to activate a parallel indicator
· Red LED for alarm indication
· Lockable
· Suitable for Series 05 detector base

Technical Data

Supply Voltage	15 V DC to 27 V DC
Nominal voltage	20 V DC
Quiescent current	20-30 µA
Alarm current	32 mA
Output	0 V in standby / 3.3 V DC with alarm
Sensor type	Thermal
Protection class	IP 32
Operating temperature	-10°C to +50°C
Storage temperature	+10°C to +50°C
Humidity	≤ 93 %
Dimensions (H x D)	56 x 104 mm (Diameter)
Material	ABS
Colour	White
Standards	EN 54-5 (Class BS)
Weight	130 g
CPD-number	0333 CPD 075 015
CPR number	03334 CPR 075 015
Remarks	Detector base must be ordered separately

UNIVERSAL BASE WITH STICK ADDRESS SOCKET — S05SE

Part-No.: 40237
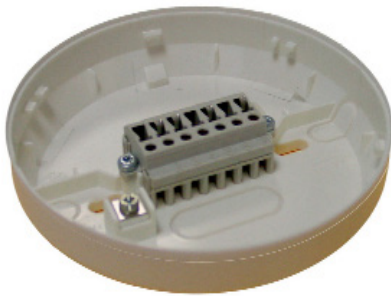
Stable detector base with for all automatic detectors of the 05 series

- Perforations for cable entry from above and from the side
- Integrated terminal block for quick wiring
- Location for optional relay module R05

Technical Data

Dimensions	(H x W x D) 22 x 122 mm (diameter)
Weight	100 g
Material	ABS
Colour white	White

BASE WITH INTERNAL SOUNDER 95DB @1M — SOUND05 + S05SE

Part-No.: 40271

Acoustic signal transmitter for external acoustic alarm according to EN54-3

- Operation optionally at the siren output of the control panel or at the OC output of the detector for local alerting
- 8 different tones adjustable via DIP switch, incl. DIN tone
- 3 volume levels adjustable via DIP switch
- Suitable for Series 05 detector base (not included in delivery)

Technical Data

Supply Voltage	18 V DC to 28 V DC
Nominal voltage	24 V DC
Quiescent current	< 150 µA
Alarm current	4-8 mA (according to the set volume)
Protection class	IP 21C
Operating temperature	-10°C bis +55°C
Storage temperature	+10°C bis +50°C
Air humidity	≤ 93
DImensions (H x D)	46 x 122 mm (Diameter)
Weight	300 g
Material	ABS
Colour	White
Standards	EN 54-3
CPR number	0334-CPR-075184
Remarks	Remarks Detector base must be ordered separately

FLUSHMONT ADAPTER FOR BASE — PES05

Part-No.: 40209

Flush-mounting adapter for S05 series detector base (base not included).
Enables flush mounting of a Series 05 detector.

- Attractive white flush-mounted adapter.
- Suitable for Series 06 detector base

Technical Data

Dimensions	(H x W x D) 22 x 122 mm (diameter)
Material	ABS
Colour white	White

PROTECTION PLATE FOR S05 BASE — CS05

Part-No.: 40075

Cover plate for S05 series base. Protects the connection terminals of the base during operation without detector.

- Suitable for the detector base of the 05 series

Technical Data

Dimensions	(H x W x D) 46 x 122 mm (diameter)
Material	ABS
Colour white	White

PLUG IN RELAY BOARD — R05

Part-No.: **40223**

Plug-in relay board for automatic detectors of the 05 series.

- Circuit board for installation in the detector base S05 for monitoring external modules.
- 2 potential-free outputs (1x NC, 1x NO)

Technical Data	
Supply Voltage	10 - 28 V DC
Nominal voltage	24 V DC
Quiescent current	100 µA
Alarm current	12 mA (according to the set volume)
Relay contact	2A / 30 v with resistive load
Dimensions (H x W x D)	34 x 64 x 2 mm
Weight	150 g
System approval	with detector
CPR number	with detector

UNIVERSAL BASE WITH GLANDS HOLES — BRI/EM + S05SE

Part-No.: **40051**
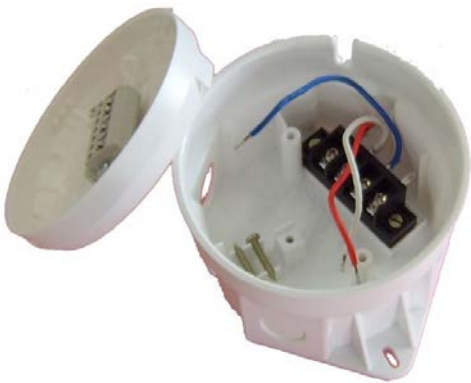
Adapter housing for surface installation, as well as for use in damp environments for automatic detectors of the 05 series.

- IIntegrated shielding for condensation and dripping water
- 3 cable entries
- 2 screws for base mounting
- Without cable glands
- without detector base S05SE (item 40237)

Technical Data	
Protection class	IP 47
Dimensions	(H x W x D) 46 x 122 m (diameter)
Weight	300 g
Material	ABS
Colour	White

WATERPROOF BASE WITH GLANDS INCLUDED — BRI + S05SE

Part-No.: **40049**
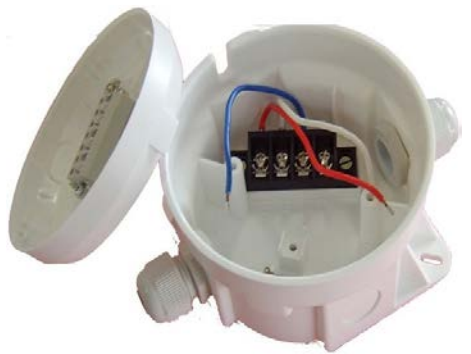
Watertight adapter housing for surface installation and for use in damp environments for damp environments for automatic detectors of the 06 series.

- IIntegrated shielding for condensation and dripping water
- 3 cable entries
- 2 screws for base mounting
- With cable glands
- without detector base S05SE (item 40237)

Technical Data	
Protection class	IP 65
Dimensions	47 x 122 m (diameter)
Weight	300 g
Material	ABS
Colour	White

OPTICAL SMOKE DETECTOR, CONVENTIONAL — CT 3000 O

VdS-approval   G 203036   Part-No.: **30015**

Optical smoke detector for conventional systems with an optical measurement method for earliest fire detection and indication according to EN 54-7

- Integrated professional smoke detection system with highest reliability for a secure alarm verification with 16 fold measurement and intelligent logics
- Intelligent analysis and disruption mode for the elimination of false alarms (e.g. cigarette smoke)
- Periodic sensor test
- Integrated Isolator and T-branch option
- LED for alarm (red)
- Integrated locking system for the protection against removal and tamper
- Standard values and application Software version 42 and up please see additional technical table

Technical Data

Supply Voltage	9 V to 33 V DC
Quiescent Current	@ 20 V DC (25°C) 30 µA
Alarm Current	20 mA
Output	OC: max. 50 mA for parallel indicator or buzzer
Protection class	IP 40
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Sensitivity	< 0,15 dB/m
Dimensions (H x D)	44 mm x 100 mm
Material	ABS
Colour	White
Standards	EN 54-7
VDS-approval	G 203036
CE-CPD-Number	0786-CPD-20042

THERMAL DETECTOR, CONVENTIONAL — CT 3000 T

                                                            Part-No.: **30014**

Heat detector with fixed and rate of rise temperature settings for conventional systems for earliest fire detection and indication in all environments with difficult ambient conditions according to EN 54-5 class A1

- Integrated temperature measurement as rate of rise procedure and maximum value in accordance to EN 54-5
- Periodic sensor test
- Integrated Isolator and T-branch option
- LED for alarm (red)
- Integrated locking system for the protection against removal and tamper
- Standard values and application Software version 42 and up please see additional technical table

Technical Data

Supply Voltage	9 V to 33 V DC
Quiescent Current	@ 20 V DC (25°C) 80 µA
Alarm Current	20 mA
Output	OC: max. 50 mA for parallel indicator or buzzer
Protection class	IP 40
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Sensitivity	EN 54-5 class A1
Dimensions (H x D)	52 mm x 100 mm
Material	ABS
Colour	White (similar to RAL 9003)
Standards	EN 54-5 class A1

MULTI SENSOR DETECTOR, CONVENTIONAL — CT 3000 OT

Part-No.: **30022**

Optical and thermal multi sensor detector for conventional systems for earliest fire detection and indication in all environments with difficult ambient conditions according to EN 54-7 and EN 54-5 class A1

- Integrated professional smoke detection system with highest reliability for a secure alarm verification with 16 fold measurement and intelligent logics
- Integrated temperature measurement as rate of rise procedure and maximum value in accordance to EN 54-5
- Intelligent analysis and disruption mode for the elimination of false alarms (e.g. cigarette smoke)
- Periodic sensor test
- Integrated Isolator and T-branch option
- LED for alarm (red)
- Integrated locking system for the protection against removal and tamper
- Standard values and application Software version 42 and up please see additional technical table

Technical Data

Supply Voltage	9 V to 33 V DC
Quiescent Current	@ 20 V DC (25°C) 90 µA
Alarm Current	20 mA
Output	OC: max. 50 mA for parallel indicator or buzzer
Sensor type	Optical/Thermal
Protection class	IP 40
Ambient temperature	-10°C to +60°C
Operating temperature	-10°C to +60°C
Humidity	max. 95%
Air velocity	< 20 m/s
Sensitivity	smoke <0,15 dB/m; temperature according to EN 54-5 class A1
Dimensions (H x D)	52 mm x 100 mm
Material	ABS
Colour	White (similar to RAL 9003)
Standards	EN 54-7 and 5 class A1

DETECTOR BASE CT 3000 S - WHITE — SDB 3000 S white

Part-No.: **32242**

Detector base for all detectors of series CT 3000 and Loop 3000

- Integrated connectors for LED indicator (Art.-No.31193) or piezo buzzer Art.-No. 32091
- Space for additional connectors Type WAGO 243
- Integrated terminals for connection of a branch as loop expansion (T-Junction)
- Mounting space for the piezo buzzer (Art.-No. 32091) and the detector labelling clip Art.-No. 30479

Technical Data

Dimensions (H x D)	21 mm x 95 mm
Material	ABS

DETECTOR BASE CT3000 - WHITE — SDB 3000 white

Part-No.: **30301**

Detector base for all detectors of series CT 3000 and Loop 3000

- Integrated connectors for LED indicator (Art.-No.31193) or piezo buzzer Art.-No. 32091
- Space for additional connectors Type WAGO 243
- Integrated terminals for connection of a branch as loop expansion (T-Junction)
- Mounting space for the piezo buzzer (Art.-No. 32091) and the detector labelling clip Art.-No. 30479

Technical Data

Dimensions (H x D)	95 mm x 21 mm
Material	ABS

OPTICAL SMOKE DETECTOR, CONVENTIONAL, DESIGN 01-WHITE

CT 3001 O white

Part-No.: **31929**

Optical smoke detector for conventional systems with an optical measurement method for earliest fire detection and indication according to EN 54-7. Mesh design

- Integrated professional smoke detection system with highest reliability for a secure alarm verification with 16 fold measurement and intelligent logics
- Intelligent analysis and disruption mode for the elimination of false alarms (e.g. cigarette smoke)
- Periodic sensor test
- Integrated Isolator and T-branch option
- LED for alarm (red)
- Integrated locking system for the protection against removal and tamper

Technical Data	
Supply Voltage	9 V to 33 V DC
Quiescent Current	@ 20 V DC (25°C) 30 µA
Alarm Current	20 mA
Output	OC: max. 50 mA for parallel indicator or buzzer
Protection class	IP 40
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Dimensions (H x D)	42 mm x 95 mm
Material	Metal cover, ABS
Standards	EN 54-7
VDS-approval	G 209231
CE-CPD-Number	0786-CPD-20955

OPTICAL SMOKE DETECTOR, CONVENTIONAL, DESIGN 01-SILVER

CT 3001 O silver

Part-No.: **31589**

OPTICAL SMOKE DETECTOR, CONVENTIONAL, DESIGN 01-BLACK

CT 3001 O black

Part-No.: **31926**

OPTICAL SMOKE DETECTOR, CONVENTIONAL, DESIGN 05-WHITE

CT 3005 O white

VdS-approval   G 209232

Part-No.: **30551**

Optical smoke detector for conventional systems with an optical measurement method for earliest fire detection and indication according to DIN EN 54-7. Round glass design

- Integrated professional smoke detection system with highest reliability for a secure alarm verification with 16 fold measurement and intelligent logics
- Intelligent analysis and disruption mode for the elimination of false alarms (e.g. cigarette smoke)
- Periodic sensor test
- Integrated Isolator and T-branch option
- LED for alarm (red)
- Integrated locking system for the protection against removal and tamper

Technical Data	
Supply Voltage	9 V to 33 V DC
Quiescent Current	@ 20 V DC (25°C) 30 µA
Alarm Current	20 mA
Output	OC: max. 50 mA for parallel indicator or buzzer
Protection class	IP 40
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Sensitivity	< 0,15 dB/m
Dimensions (H x D)	100 mm x 47 mm
Material	ABS, Glass
Standards	EN 54-7
VDS-approval	G 209232
CE-CPD-Number	0786-CPD-20957

OPTICAL SMOKE DETECTOR, CONVENTIONAL, DESIGN 07- SILVER

CT3005 O silver

VdS-approval   G 209232

Part-No.: **30552**

RELAY - BASE FOR DETECTORS CT- 24V - WHITE | DRB 3000 white
VdS-approval   G 207011 | Part-No.: 30469

Detector base with integrated relay for triggering of external devices or displays via potential free change over contact for all detectors of series CT 3000.

• Triggering of the relays at alarm and removal of detector
• Triggering of the relay only at alarm is possible
• Compatible to all detetcors of series CT 3000
• Suitable for the connection to 24 V-systems
• Space for additional connectors Type WAGO 243
• Mounting space for the detector labelling clip part-no. 30479

Technical Data	
Supply Voltage	18 V to 30 V DC
Quiescent Current	0,4 mA
Alarm Current	22 mA
Output	1 switchover 30 V/1A
Ambient temperature	-10°C to +60°C
Dimensions (H x D)	21 mm x 95 mm
Weight	appr. 60 g
Material	ABS
VDS-approval	G 207011

RELAY - BASE FOR DETECTORS CT- 24V - BLACK | DRB 3000 black
VdS-approval   G 207011 | Part-No.: 32085

RELAY - BASE FOR DETECTORS CT- 24V - SILVER | DRB 3000 silver
VdS-approval   G 207011 | Part-No.: 32086

RELAY - BASE FOR DETECTORS CT- 12V - WHITE | DRB 400 white
VdS-approval   G 207011 | Part-No.: 32265

Detector base with integrated relay for triggering of external devices or displays via potential free change over contact for all detectors of series CT 3000.

• Triggering of the relays at alarm and removal of detector
• Triggering of the relay only at alarm is possible
• Compatible to all detetcors of series CT 3000
• Suitable for the connection to 12 V-systems
• Space for additional connectors Type WAGO 243
• Mounting space for the detector labelling clip part-no. 30479

Technical Data	
Supply Voltage	10 V to 15 V DC
Quiescent Current	6 mA
Alarm Current	0,7 mA
Output	1 switchover 30 V/1A
Ambient temperature	-10°C to +60°C
Dimensions (H x D)	21 mm x 95 mm
Weight	appr. 60 g
Material	ABS
VDS-approval	G 207011

RELAY - BASE FOR DETECTORS CT- 12V - SILVER | DRB 400 silver
VdS-approval   G 207011 | Part-No.: 32266

Detector base with integrated relay for triggering of external devices or displays via potential free change over contact for all detectors of series CT 3000.

• Triggering of the relays at alarm and removal of detector
• Triggering of the relay only at alarm is possible
• Compatible to all detetcors of series CT 3000
• Suitable for the connection to 12 V-systems
• Space for additional connectors Type WAGO 243
• Mounting space for the detector labelling clip part-no. 30479

Technical Data	
Supply Voltage	10 V to 15 V DC
Quiescent Current	6 mA
Alarm Current	0,7 mA
Output	1 switchover 30 V/1A
Ambient temperature	-10°C to +60°C
Dimensions (H x D)	21 mm x 95 mm
Weight	appr. 60 g
Material	ABS
VDS-approval	G 207011

CONVENTIONAL MANUAL CALL POINT RESETTABLE RED — DMCL05
Part-No.: 40524

Conventional Manual Call Point resettable with key without breaking glass, led and alarm resistor integrated, red colour

- Push Button mechanics for the activation of a manual alarm
- Integrated reset mechanics (operation from inside)
- LED for alarm (red)
- Plastic housing

Technical Data	
Supply Voltage	13 V to 30 V DC
Alarm Current	35 mA @ 24 Vdc
Protection class	IP 33
Ambient temperature	-10°C to +60°C
Humidity	max. 93%
Dimensions (H x B x T)	99 mm x 98 mm x 49 mm
Weight	140 g
Material	ABS
Colour	red
Standards	EN 54-11
VDS-approval	G 203021
CE-CPD-Number	0786-CPD-20350
Remarks	Accessories: spare glass part-no. 31910 spare key part-no. 40054 weatherproof housing part-no. 31091

CONVENTIONAL MANUAL CALL POINT RESETTABLE BLUE — DMCL05-B
Part-No.: 40534

Conventional Manual Call Point resettable with key without breaking glass, led and alarm resistor integrated, blue colour

CONVENTIONAL MANUAL CALL POINT RESETTABLE YELLOW — DMCL05-J
Part-No.: 40535

Conventional Manual Call Point resettable with key without breaking glass, led and alarm resistor integrated, yellow colour

PLASTIC FRAME FOR FLUSHMOUNTING — PEDM
Part-No.: 40208

Plastic Frame for flushmounting MCP

TRANSPARENT LIFT UP FOR DMCL05 — VPDM
Part-No.: 40318

Transparent Lift-up protective cover for MCP, permits a double action (supplied with protection label)

KIT OF 10PCS RESET KEY FOR DMCL05 — KCTDM
Part-No.: 40360

Kit of 10 reset keys for 05 MCP

SBDH-ABS-R, SPRING BUTTON DETECTOR — SBDH ABS R

Part-No.: **32082**

Spring button detector for conventional system for the manual activation of an alarm according to EN 54-11

- Spring button detector mechanics for the activation of a manual alarm
- Non-destructive activation and reset via mechanics

Technical Data

Supply Voltage	up to 30 V DC
Alarm Current	27 mA
Protection class	IP 42
Ambient temperature	-10°C to +60°C
Humidity	max. 95 % (not condensed)
Dimensions (H x B x T)	88 mm x 88 mm x 54 mm
Weight	170 g
Material	ABS
Colour	RAL 3000 (red)
Colour variation	red
Standards	EN 54-11

MANUAL CALL POINT, BLUE HAUSALARM — CT 3000 PBD-ABS-B

Part-No.: **31651**

Manual Call Point for conventional systems for the manual activation of an alarm and status display via LED.

- Push Button mechanics for the activation of a manual alarm
- Integrated reset mechanics (operation from inside)
- LED for alarm (red)
- Encapsulated plastic housing

Technical Data

Supply Voltage	12 V to 24 V DC
Alarm Current	27 mA
Protection class	IP 42
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	135 mm x 135 mm x 33 mm
Material	ABS, Glass
Standards	12094-3
Remarks	Accessories: spare glass part-no. 31910, spare key part-no. 40054

MANUAL CALL POINT, RED — CT 3000 PBDH-ABS-R

Part-No.: **31675**

Manual Call Point for conventional systems for the manual activation of an alarm and status display via LED according to EN 54-11

- Push Button mechanics for the activation of a manual alarm
- Integrated reset mechanics (operation from inside)
- LED for alarm (red)
- Encapsulated plastic housing

Technical Data

Supply Voltage	12 V to 24 V DC
Alarm Current	27 mA
Protection class	IP 42
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	135 mm x 135 mm x 33 mm
Material	ABS, Glass
Standards	EN 54-11
VDS-approval	G 296033
CE-CPD-Number	0786-CPD-20526
Remarks	Accessories: spare glass part-no. 31910, spare key part-no. 40054

MANUAL CALL POINT - RED, ALU — CT 3000 PBDH-ALU-R

Part-No.: **31676**

Manual Call Point for conventional systems for the manual activation of an alarm and status display via LED according to EN 54-11.

- Push Button mechanics for the activation of a manual alarm
- Integrated reset mechanics (operation from inside)
- LED for alarm (red)
- Encapsulated aluminum housing

Technical Data

Supply Voltage	12 V to 24 V DC
Alarm Current	27 mA
Protection class	IP 43
Ambient temperature	-20°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	125 mm x 125 mm x 34 mm
Weight	400 g
Material	Aluminum
Colour	red (RAL 3000)
Standards	EN 54-11
VDS-approval	G 203021
CE-CPD-Number	0786-CPD-20350
Remarks	Accessories: spare glass part-no. 31910 spare key part-no. 40054 weatherproof housing part-no. 31091

MANUAL CALL POINT - BLUE HAUSALARM, ALU — CT 3000 PBD-ALU-B

Part-No.: **31087**

Manual Call Point for conventional systems for the manual activation of an alarm and status display via LED.

• Push Button mechanics for the activation of a manual alarm
• Integrated reset mechanics (operation from inside)
• LED for alarm (red)
• Encapsulated aluminum housing

Technical Data

Supply Voltage	12 V to 24 V DC
Alarm Current	27 mA
Protection class	IP 43
Ambient temperature	-20°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	125 mm x 125 mm x 34 mm
Weight	400g
Material	Aluminum
Remarks	Accessories: spare glass part-no. 31910 spare key part-no. 40054 weatherproof housing part-no. 31091

MANUAL CALL POINT - ORANGE RAUCHABZUG, ALU — CT 3000 PBD-ALU-O

Part-No.: **31089**

Manual Call Point for conventional systems for the manual activation of an alarm and status display via LED.

• Push Button mechanics for the activation of a manual alarm
• Integrated reset mechanics (operation from inside)
• LED for alarm (red)
• Encapsulated aluminum housing

Technical Data

Supply Voltage	12 V to 24 V DC
Alarm Current	27 mA
Protection class	IP 43
Ambient temperature	-20°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	125 mm x 125 mm x 34 mm
Weight	400g
Material	Aluminum
Remarks	Accessories: spare glass part-no. 31910 spare key part-no. 40054 weatherproof housing part-no. 31091

MANUAL CALL POINT - YELLOW LÖSCHANLAGE, ALU — CT 3000 PBD-ALU-Y

Part-No.: **31088**

Manual Call Point for conventional systems for the manual activation of an alarm and status display via LED.

• Push Button mechanics for the activation of a manual alarm
• Integrated reset mechanics (operation from inside)
• LED for alarm (red)
• Encapsulated aluminum housing

Technical Data

Supply Voltage	12 V to 24 V DC
Alarm Current	27 mA
Protection class	IP 43
Ambient temperature	-20°C to +60°C
Humidity	max. 95%
Dimensions (H x B x T)	125 mm x 125 mm x 34 mm
Weight	400 g
Material	Aluminum
Colour	Housing yellow
Standards	54-11/B
VDS-approval	G 205018
CE-CPD-Number	0786-CPD-20350
Remarks	Accessories: spare glass part-no. 31910 spare key part-no. 40054 weatherproof housing part-no. 31091

WATERPROOF MANUAL CALL POINT DMC05 E

Part-No.: 40369

CONVENTIONAL WATERPROOF MANUAL CALL POINT resettable with key without breaking glass, led and alarm resistor integrated, RED colour, EN54-11, CE according to CPD/CPR

- Push Button mechanics for the activation of a manual alarm
- Integrated reset mechanics (operation from inside)
- LED for alarm (red)
- Plastic housing

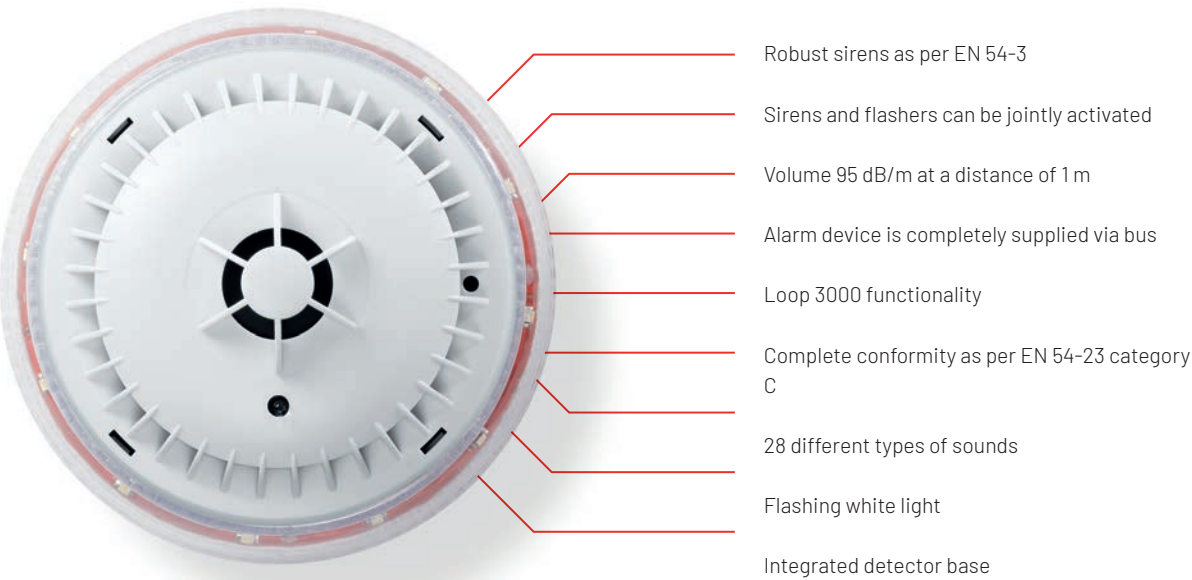| Technical Data	
Supply Voltage	13 V to 30 V DC
Alarm Current	35 mA @ 24 Vdc
Protection class	IP 66
Ambient temperature	-25°C to +70°C
Humidity	max. 95%
Dimensions (H x B x T)	120 mm x 120 mm x 87 mm
Weight	300 g
Material	ABS
Colour	Red
Standards	EN 54-11
VDS-approval	G 203021
CE-CPD-Number	0786-CPD-20350

CONUS
SIGNALLING DEVICE

Conforms mit EN54-23 & EN 54-3

A NEWLY ONCEIVED ALARM TRIGGERING CONCEPT:
ALTERING TWO SENSES

While in many cases, purely acoustic alarms were previously sufficient, today additional visual signalling devices are used in many buildings. It makes sense, because
industrial environments, for example, often involve everyday tasks that require the
use of protective eye wear and/or ear protection.

If a fire breaks out, however, it must be ensured that everyone present is immediately and clearly alerted and evacuated from
the area as quickly as possible. This is also the case in buildings where individuals with impaired sight or hearing frequent,

regardless of whether the cause of the impairment is medical or determined by the tools and equipment they use. The alarm
triggering concept within the fire alarm concept is therefore shifting to a significantly stronger focus on optimal protection.

CONUS PERFORMANCE FEATURES

- Robust sirens as per EN 54-3
- Sirens and flashers can be jointly activated
- Volume 95 dB/m at a distance of 1 m
- Alarm device is completely supplied via bus
- Loop 3000 functionality
- Complete conformity as per EN 54-23 category C
- 28 different types of sounds
- Flashing white light
- Integrated detector base

The CONUS visual–acoustic signalling device in combination with the intelligent OTi multisensor detector: the new generation of signalling devices is especially convenient to use.
Thanks to the integrated detector base, the detectors can be installed quickly and easily on the alarm devices, as well as on walls and ceilings.

Acoustic signal transmitter CONUS
CONUS acoustic signalling device: regardless of whether the signalling device is combined with a detector or acts as an autonomous alarm device, the volume and emission characteristics of the devices are always unchanged and louder than conventional devices.

# CONUS
READY FOR EN 54-23

Since 1 January 2014, visual and/or visual-acoustic signalling devices certified under EN 54-23 have been required for fi re alarm systems.
This means that all visual signalling devices that do not have this certifi cation also lose their VdS approval and must not be used for new installations.

Planners, engineers, fi re alarm system managers, system integrators, and electrical installation and setup companies in the EU therefore face an acute need for action. With the CONUS series, we now off er you a solution that is certifi ed under EN 54-23 and has VdS approval, providing peace of mind in the planning of all building projects.

SIGNALLING RANGE

Visual signalling devices must at least meet signalling range requirements in one of the three following categories:

- Wall mounted signalling device (W)
- Ceiling-mounted signalling device (C)
- Open' installation signalling device, for which the mounting position is freely selectable (O)
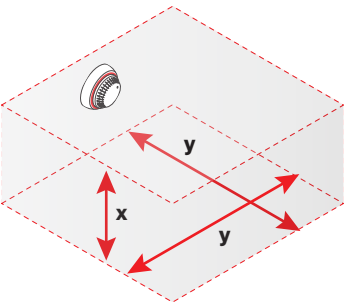
Wall-mounted signalling device (W): category W devices are described with specifi cation W-x-y. **X** stands for the maximum installation height of the signalling device on the wall, expressed in metres (m), with a minimum installation height of 2.4 m. **y** describes the quadratic area of the rectangular signalling range.
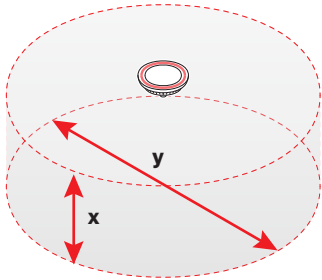
Ceiling-mounted signalling device (C): category C devices are described with specifi cation C-x-y. X stands for the maximum measured installation height, expressed in metres (m), at which the signalling device is permitted to be mounted. y indicates the diameter of the cylindrical signalling range. In addition to the limits of the cylindrical signalling range, these devices are only classified for heights up to 3, 6 or 9 m.
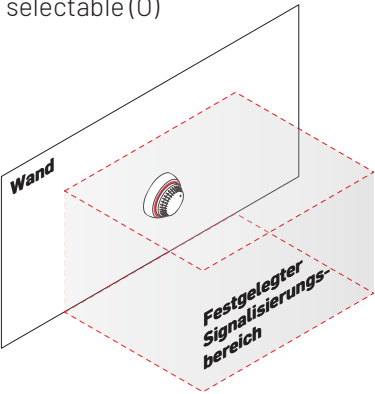
Open installation (O): devices in category O have no restrictions in terms of design, allowing for the largest possible signalling range to be formed in the shape of a freely selectable rectangle.

CONUS
EVERYTHING UNDER CONTROL

They simply make the life of operators, project managers and architects easier: the new loop-supplied signalling devices from the CONUS family. Thanks to the integrated detector base, a detector is quick and easy to mount onto the alarm devices. Up to 60% more alarm devices can be connected in a loop without changing the c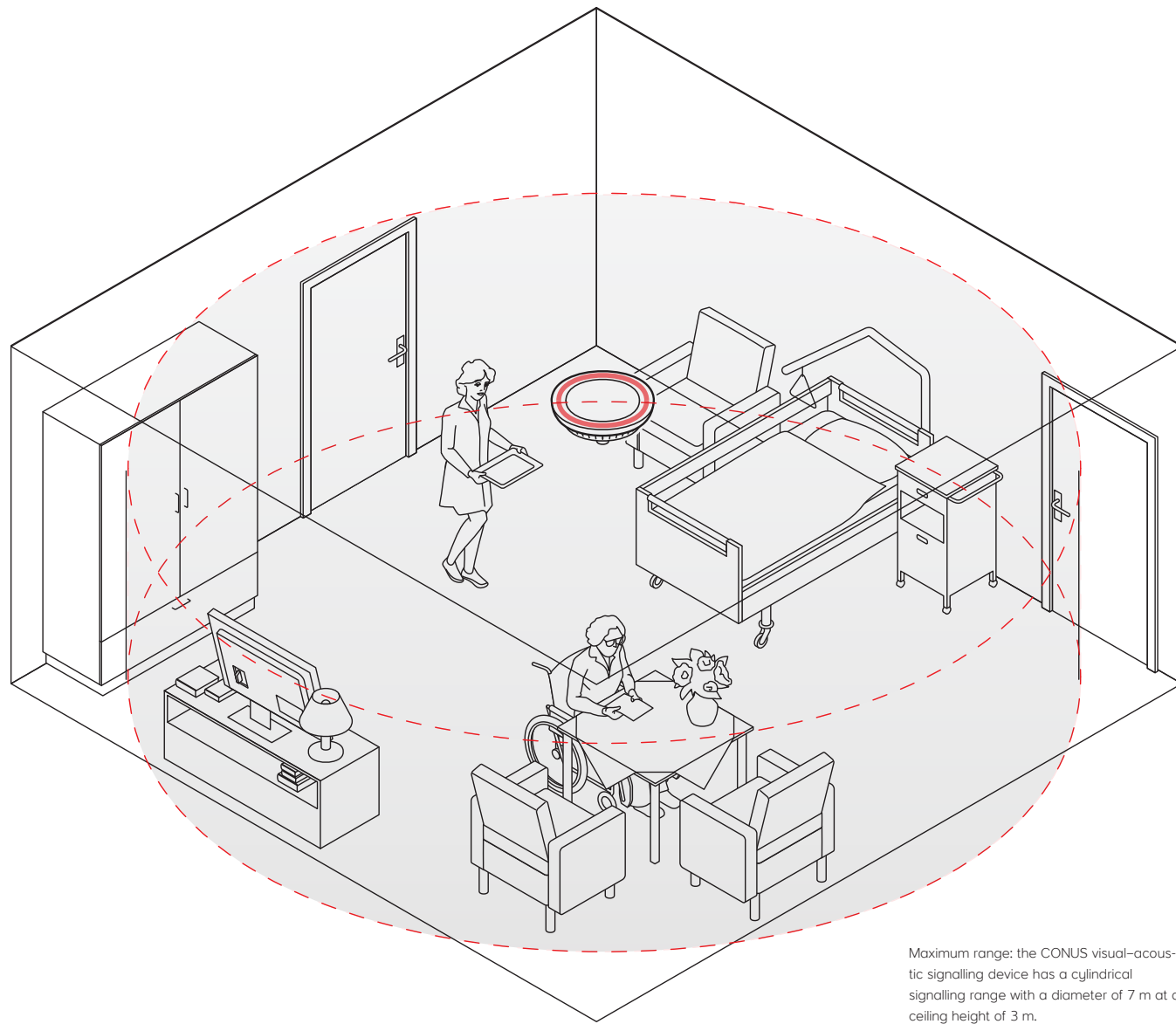able length. If the number of alarm devices stays the same, the loop cable length can be doubled with ease, reducing the required wiring throughout the building.

Maximum range: the CONUS visual–acoustic signalling device has a cylindrical signalling range with a diameter of 7 m at a ceiling height of 3 m.

CONUS
IN THE SPOTLIGHT

CONUS is the comprehensive system solution for fast alarm triggering and control, for the protection of people and property, the prevention of operational failures – and ultimately the security of the building and company. CONUS has high-performance LEDs, advanced optics and provides excellent lighting with a low current consumption. The visual–acoustic signalling device with white light is available especially for the EN 54-23 standard.

This new generation of signalling devices is especially convenient to use. Thanks to the integrated detector base, the PL series detectors can be installed quickly and easily on the alarm devices.

A direct sound outlet provides decisive benefits.

Regardless of whether the signalling device is combined with a detector or acts as an autonomous alarm device, the volume and emission characteristics of the devices are always unchanged and louder than conventional devices.
This optimal acoustic emission makes it possible to use fewer signalling devices across larger building areas and still achieve the same results.

Visual–acoustic signalling device with intelligent SIRIUS multisensor

acoustic   acoustic   visual and acoustic   visual and acoustic

COMPARISON CHART

A direct sound outlet, which characterizes the appearance of the devices, offers the user significant advantages: regardless of how the signalling device is used – for instance, in combination with a detector both as a sounder and as a sounder/flasher – the volume and emission characteristics of the devices remain unchanged and consistent. The newly designed sound outlet offers optimal acoustic emission, so that fewer signalling devices can be used across larger building areas to achieve the same results. Thanks to CONUS, system design is now much less complicated.

● CONUS
● Conventional
● Low-Costt
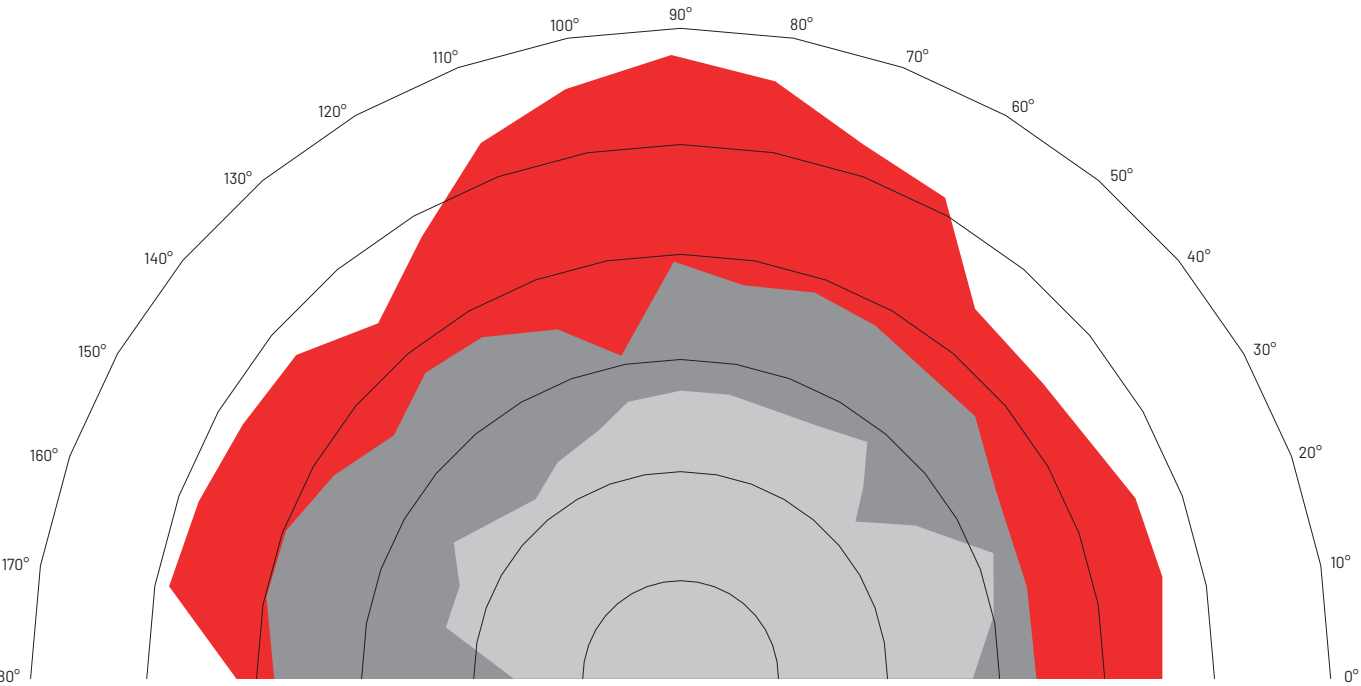
Flashing lights in visual–acoustic signalling devices are used as visual alarms and are a practical addition to acoustic signalling devices, above all in situations where there is a risk that acoustic signalling devices will not be heard, such as in environments with loud background noise, like schools and workshops. Another conceivable application for these devices is buildings where deaf or hearing-impaired individuals frequent, such as in public buildings or other publicly accessible areas and workplaces.

CONUS
FACTS AND FIGURES

WHAT ARE THE ADVANTAGES OF USING THE EN 54-23 CERTIFIED CONUS?

- Peace of mind during project planning
- Standard-compliant fire alarm triggering is ensured
- Liability risk is minimised
- Quick installation means reduced costs
- May reduce insurance premiums for building operators

CONUS – ACOUSTIC SIGNALLING DEVICE
VdS approval G 213042   CT 3000 S x SE
Item no.: 32749 white (CT 3000 S 0 SE)
Item no.: 32750 red (CT 3000 S 1 SE)

Technical data
Acoustic signalling device for acoustic alarm triggering as per EN 54-3.

- Up to 95 dB(A) at a distance of 1 m
- Volume can be adjusted via integrated DIP switch
- 28 different types of sounds can be set via DIP switch, including DIN tone
- Sleek, robust housing with IP41 protection rating
- Integrated detector base for series PL and CT detectors

CONUS – VISUAL-ACOUSTIC SIGNALLING DEVICE
VdS approval G 216090   CT 3000 SF x SE
Item no. 32758 white (CT 3000 SF 0 SE)
Item no. 32759 red (CT 3000 SF 1 SE)

Technical data
Visual-acoustic combination signalling device for acoustic alarm triggering as per EN 54-3 and visual alarm triggering as per EN 54-23.

- Up to 95 dB(A) at a distance of 1 m
- Volume can be adjusted via integrated DIP switch
- 28 different types of sounds can be set via DIP switch, including DIN tone
- Sleek, robust housing with IP41 protection rating
- Integrated detector base for series PL and CT detector
- Signalling ange C-3-7

CONUS - SOUNDER FLASHER- WHITE	CT 3000 SF 0 SE
VdS-approval G 216090	Part-No.: 32758

Opto-Acoustic multiple tone sounder flasher for an acoustic alarm according to EN 54-3 and optical alarm according EN 54-23

- 28 different tones, adjustable via DIP-switch including DIN-signal
- Loudness adjustable via DIP-switch
- Aestethical, robust wall mounted housing according with IP 41
- Integrated detector base for the detectors of the PL and CT series
- Signaling range C-3-7

Technical Data	
Supply Voltage	16 V to 42 V DC
Nominal voltage	24 V
Alarm Current	15 mA
Protection class	IP 41
Sounds	28
Loudness	Up to 95 dB(A) @ 1 m
Loudness control	In 4 steps
Luminosity	C-3-7
Flash rate	0,5 Hz, 1 Hz (adjustable see tone table)
Ambient temperature	-10°C to +60°C
Storage temperature	-25°C to +70°C
Humidity	Max. 95%
Dimensions (H x D)	66 mm x 145 mm
Weight	300 g
Material	Housing: ABS, Flasher ring: PC transparent
Standards	EN 54-3, EN 54-23
VDS-approval	G 216090
System-approval	S 210001, S 216001
CE-CPR-Number	0786-CPR-21525

CONUS - SOUNDER FLASHER- RED	CT 3000 SF 1 SE
VdS-approval G 216090	Part-No.: 32759

CONUS - SOUNDER WHITE — CT 3000 S 0 SE

VdS-approval   G 213042

Part-No.: 32749

Acoustic multiple tone sounder for an acoustic alarm according to EN 54-3

- 28 different tones, adjustable via DIP-switch including DIN-signal
- Loudness adjustable via DIP-switch
- Aestethical, robust wall mounted housing according with IP 41
- Integrated detector base for the detectors of the PL and CT series

Technical Data

Supply Voltage	16 V to 42 V DC
Alarm Current	4,2 mA
Protection class	IP 41
Sounds	28
Loudness	Up to 95 dB(A) @ 1 m
Loudness control	In 4 steps
Ambient temperature	-10°C to +60°C
Storage temperature	-25°C to +70°C
Humidity	Max. 95%
Dimensions (H x D)	66 mm x 145 mm
Weight	285 g
Material	ABS
Standards	EN 54-3
VDS-approval	G 213042
System-approval	S 210001, S 216001
CE-CPD-Number	0786-CPD-21268
CE-CPR-Number	0786-CPR-21268

CONUS - SOUNDER RED — CT 3000 S 1 SE

VdS-approval   G 213042

Part-No.: 32750

SOUNDER RED 95DB — AVS2000/R

Part-No.: 40353

High Powered Piezoelectric Sounder for Indoor use (red colour), possibility to select 6 tones, 95 db@1m, lateral hearings.

- EN54-23, CE according to CPD/CPR
- Exists also in white colour (AVS2000/W; base included)

SOUNDER FLASH RED 97DB — DSF2000-RR

Part-No.: 403529

Conventional Sounder + Flash (red flash + red box)

- 97db, low current consuption, IP21C
- EN54-3, EN54-23, CE according to CPD/CPR (exists also in white flash), base included

LED FLASH RED — DFD2000-R1-RR

Part-No.: 40367

Conventional Led Flash (red flash + red box) for diffusion.

- 16-58Vdc
- EN54-23, CE according to CPD/CPR (exists also in white flash)

BASE FOR DFD2000-R1-RR — BASE 1.5

Part-No.: 40462

Base for DFD2000 (exists also in white)

SOUNDER - RED 112 DB — CS 200 R

VdS-approval   G 209123

Part-No.: **31689**

Acoustic multiple tone sounder for an external acoustic alarm according to EN 54-3

• 32 different tones via DIP-switch, including DIN-tone
• Integrated two tone alarm function
• Flat design
• Internal volume adjustment

Technical Data

Supply Voltage	9 V to 28 V
Alarm Current	15 mA at DIN-Tone
Protection class	IP 21C
Loudness	max. 112dB; DIN-Ton max. 102dB
Ambient temperature	-10°C to +55°C
Dimensions (H x D)	63 mm x 63 mm
Weight	240 g
Material	ABS FR
Standards	DIN EN 54-3
VDS-approval	G 209123
System-approval	S 210001, S 216001

SOUNDER - RED MAX. 112 DB — ROLP 32 R

VdS-approval   G 206019

Part-No.: **31838**

Acoustic multiple tone sounder for an external acoustic alarm according to EN 54-3

• 32 different tones via DIP-switch, including DIN-Tone
• Volume internally adjustable
• Integrated two tone alarm function
• Flat design

Technical Data

Supply Voltage	9 V to 28 V
Alarm Current	3 mA to 33 mA
Protection class	IP 54
Loudness	max. 112dB; DIN-Ton max. 103dB
Ambient temperature	-25°C to +70°C
Dimensions (H x D)	93 mm x 63 mm
Weight	250 g
Material	ABS FR
Standards	DIN EN 54-3
VDS-approval	G 206019
System-approval	S 210001, S 216001
Further approvals	CNBOP, UL
Remarks	Accessories: part-no. 40059: flush mount base to reach IP 65, red, UB r, part-no. 31468: surface mount base 48 mm to reach IP 65, red, PG DG r

SOUNDER - WHITE 112 DB — CS 200 W

VdS-approval   G 209123

Part-No.: **31690**

Acoustic multiple tone sounder for an external acoustic alarm according to EN 54-3

• 32 different tones via DIP-switch, including DIN-tone
• Integrated two tone alarm function
• Flat design
• Internal volume adjustment

Technical Data

Supply Voltage	9 V to 28 V
Alarm Current	15 mA at DIN-Tone
Protection class	IP 21C
Loudness	max. 112dB; DIN-Ton max. 102dB
Ambient temperature	-10°C to +55°C
Dimensions (H x D)	63 mm x 63 mm
Weight	240 g
Material	ABS FR
Standards	DIN EN 54-3
VDS-approval	G 209123
System-approval	S 210001, S 216001

SOUNDER - WHITE. 112 DB — ROLP 32 W

VdS-approval   G 206019

Part-No.: **30198**

Acoustic multiple tone sounder for an external acoustic alarm according to EN 54-3

• 32 different tones via DIP-switch, including DIN-Tone
• Volume internally adjustable
• Integrated two tone alarm function
• Flat design

Technical Data

Supply Voltage	9 V to 28 V
Alarm Current	3 mA to 33 mA
Protection class	IP 54
Loudness	max. 112dB; DIN-Ton max. 103dB
Ambient temperature	-25°C to +70°C
Dimensions (H x D)	93 mm x 63 mm
Weight	250 g
Material	ABS FR
Colour housing	White
Standards	DIN EN 54-3
VDS-approval	G 206019
System-approval	S 210001, S 216001
Further approvals	CNBOP, UL
Remarks	Accessories: part-no. 40059: flush mount base to reach IP 65, red, UB r, part-no. 31468: surface mount base 48 mm to reach IP 65, red, PG DG r

SOUNDER - RED. 120 DB   SYS 120 R

VdS-approval   G 206027   Part-No.: 30216

Acoustic multiple tone sounder for an external acoustic alarm according to EN 54-3

- 32 different tones via DIP-switch, including DIN-tone
- Volume internally adjustable
- Integrated two tone alarm function
- Flat design

Technical Data

Supply Voltage	18 V to 28 V DC
Alarm Current	up to 260 mA; 240 mA at DIN-Tone
Protection class	IP 21C
Loudness	88 to 120 dB; 112 dB at DIN-Tone
Ambient temperature	-10°C to +55°C
Dimensions (H x B x T)	96 mm x 108 mm x 108 mm
Weight	590 g
Material	ABS, Glass
Colour housing	red
Standards	DIN EN 54-3
VDS-approval	G 206027
System-approval	S 210001, S 216001
CE-CPD-Number	0832-CPD-0142
Further approvals	CNBOP 1851/2013

PARALLEL INDICATOR   PA

VdS-approval   G 208142   Part-No.: 31193

Detector parallel indicator for the external optical indication of the installation place of one or more detectors.

- White wall mount housing, calotte red
- Aestethical robust wall mounted housing according with IP 30

Technical Data

Supply Voltage	9 V to 30 V DC
Alarm Current	12 mA
Protection class	IP 30
Ambient temperature	-10°C to +50°C
Dimensions (H x B x T)	84 mm x 84 mm x 35 mm
Weight	appr. 65 g
Material	ABS
Colour	Housing white, calotte red
Standards	40050
VDS-approval	G 208142
System-approval	S 210001, S 216001
CE-CPD-Number	0786-CPD-20804

BEACON 10 CD RED   Solex 10 r

VdS-approval   G 207018   Part-No.: 32462

Optical Xenon - beacon for an external optical alarm

- Wide input voltage range
- Integrated starting current limitation
- High efficiency
- Flat design
- Screwable base

Technical Data

Supply Voltage	9 V bis 60 V DC
Alarm Current	45 to 184 mA; 88mA at 24V
Protection class	IP 54
Luminosity	10 Cd
Flash rate	1 Hz (+20%)
Ambient temperature	-25°C to +70°C
Dimensions (H x D)	93 mm x 67 mm
Weight	150 g
Material	Base ABS, lense PC
Colour	White
Colour housing	White
Standards	DIN EN 54-23
VDS-approval	G 207018
Remarks	Accessories: part-no. 40059: flush mount base to reach IP 65, red, UB r, part-no. 31468: surface mount base 48 mm to reach IP 65, red, PG DG r

BEACON 10 CD ORANGE

Solex 10 o
Part No.: 30220

BEACON 10 CD GREEN

Solex 10 g
Part No.: 32447

BEACON 10 CD BLUE

Solex 10 b
Part No.: 32448

BEACON 10 CD CLEAR

Solex 10 c
Part No.: 33060

FLUSH MOUNT ADAPTER BASE SOLEX, ROLP IP65 RED   UB r

Part-No.: 40059

Flush-mounted base for the upgrade of the beacons of the series SOLEX and sirens of the series ROLP to protection class IP 65

- Robust flush-mounted base made of plastic
- Snap on mounting for sirens (ROLP) and beacons (SOLEX)

Technical Data

Protection class	IP 35
Ambient temperature	-25°C to +70°C
Dimensions (H x D)	92 mm x 51 mm
Weight	63 g
Material	ABS

SURFACE MOUNT ADAPTER BASE SOLEX, ROLP IP65 RED   PG DB r

Part-No.: 31467

Surface mounted base for the upgrade of the beacons of the serie SOLEX and sirens of the series ROLP to protection class IP 65.

- Robust construction mounted base made of plastic
- Snap on mounting for sirens (ROLP) and beacons (SOLEX)

Technical Data

Protection class	IP 35
Ambient temperature	-25°C to +70°C
Dimensions (H x D)	92 mm x 51 mm
Weight	63 g
Material	ABS

FLUSH MOUNT ADAPTER BASE SOLEX, ROLP IP65 WHITE   UB w

Part-No.: 40060

Flush-mounted base for the upgrade of the beacons of the series SOLEX and sirens of the series ROLP to protection class IP 65

- Robust flush-mounted base made of plastic
- Snap on mounting for sirens (ROLP) and beacons (SOLEX)

Technical Data

Protection class	IP 35
Ambient temperature	-25°C to +70°C
Dimensions (H x D)	92 mm x 51 mm
Weight	63 g
Material	ABS

SURFACE MOUNT ADAPTER BASE SOLEX, ROLP IP65 WHITE   PG DB w

Part-No.: 31468

Surface mounted base for the upgrade of the beacons of the serie SOLEX and sirens of the series ROLP to protection class IP 65.

- Robust construction mounted base made of plastic
- Snap on mounting for sirens (ROLP) and beacons (SOLEX)

Technical Data

Protection class	IP 35
Ambient temperature	-25°C to +70°C
Dimensions (H x D)	92 mm x 51 mm
Weight	63 g
Material	ABS

WALL MOUNT BEACON SOLISTA - RED, ACCORDING TO EN 54-23 — SOL RR

VdS-approval   G 214067

Part-No.: **32906**

Wall mounted LED signaling device for the external optical alarm according to EN 54-23

- Signaling area (y) up to 7,5m, switchable to 2,5m
- Wide input voltage range
- Long lifetime and low current consumption
- Flat design
- Soft start
- Producer: Compro Electronic

Technical Data	
Supply Voltage	9 V to 60 V DC
Alarm Current	10 mA to 25 mA; depending on setup (25 mA at 24 V DC, 1 Hz, y=7,5 m) (15,5 mA at 24 VDC, 0,5 Hz, y=7,5 m)
Protection class	IP 33C flat base
Flash rate	1Hz (switchable to 0,5 Hz)
Ambient temperature	-25°C to +70°C
Weight	100 g
Material	ABS
Colour	Red Flash
Colour variation	red
Colour housing	Red housing
Standards	EN 54-23
VDS-approval	G 214067
System-approval	S 210001, S 216001
CE-CPD-Number	0333-CPD-075441
Remarks	Accessories: part-no. 40059: flush mount base to reach IP 65, red, UB r, part-no. 31468: surface mount base 48 mm to reach IP 65, red, PG DG r

WALL MOUNT BEACON SOLISTA - WHITE, ACCORDING TO EN 54-23 — SOL WR

VdS-approval   G 214067

Part-No.: **32907**

Wall mounted LED signaling device for the external optical alarm according to EN 54-23

- Signaling area (y) up to 7,5m, switchable to 2,5m
- Wide input voltage range
- Long lifetime and low current consumption
- Flat design
- Soft ramp up start

Technical Data	
Supply Voltage	9 V to 60 V DC
Alarm Current	10 mA to 25 mA; depending on setup (25 mA at 24 V DC, 1 Hz, y=7,5 m) (15,5 mA at 24 VDC, 0,5 Hz, y=7,5 m)
Protection class	IP 33C flat base
Flash rate	1Hz (switchable to 0,5 Hz)
Ambient temperature	-25°C to +70°C
Weight	100 g
Material	ABS
Colour	Red Flash
Colour variation	White
Colour housing	White housing
Standards	EN 54-23
VDS-approval	G 214067
System-approval	S 210001, S 216001
CE-CPD-Number	0333-CPD-075441
Remarks	Accessories: part-no. 40059: flush mount base to reach IP 65, red, UB r, part-no. 31468: surface mount base 48 mm to reach IP 65, red, PG DG r

CEILING MOUNT BEACON SOLISTA, ACCORDING TO EN 54-23 — SOL D/W

VdS-approval   G 214069 (Cooper Fulleon Ltd.)

Part-No.: **32908**

Ceiling mounted LED signalling device for the external optical alarm according to EN 54-23

- White housing with red LED-beacon according to EN 54-23
- Signaling area (y) up to 7,5m, switchable to 3m
- Wide input voltage range
- Long lifetime and low current consumption
- Unique lense design
- Flat design
- Soft start
- Producer: Compro Electronic

Technical Data

Supply Voltage	9 V to 60 VDC
Alarm Current	10 mA to 25 mA; depending on setup (25 mA at 24 V DC, 1 Hz, y=7,5 m) (15,5 mA at 24 VDC, 0,5 Hz, y=7,5 m)
Protection class	IP 33C flat base
Flash rate	1Hz (switchable to 0,5 Hz)
Ambient temperature	-25°C to +70°C
Weight	100 g
Material	ABS
Colour	Red Flash
Colour housing	White housing
Standards	EN 54-23
VDS-approval	G 214069 (Cooper Fulleon Ltd.)
System-approval	S 210001, S 216001
CE-CPD-Number	0333-CPD-075443
Remarks	Accessories: part-no. 40059: flush mount base to reach IP 65, red, UB r, part-no. 31468: surface mount base 48 mm to reach IP 65, red, PG DG r

WALL MOUNT COMBINED SIGNAL DEVICE - RED, ACCORDING TO EN 54-23 — ROLP LX W/R

VdS-approval   G 214070 (Cooper Fulleon Ltd.)

Part-No.: **32909**

Wall mounted comined LED signaling device for the external optical alarm according to EN 54-23 and acoustic signal.

- Signaling area (y) up to 7,5m, switchable to 2,5m
- Wide input voltage range
- Unique lense design
- Long lifetime and low current consumption
- Soft start

Technical Data

Supply Voltage	9 V bis 15 V DC (Fire Use), 18-28 V DC (Fire Use), 9-28 V DC (Non Fire Use)
Alarm Current	22 mA to 37 mA; depending on the setup of sounder and beacon
Protection class	IP 35
Loudness	103 dB(A) at DIN-Tone
Flash rate	1Hz (switchable to 0,5 Hz)
Ambient temperature	-25°C to +70°C
Weight	200 g
Material	ABS, Glass
Standards	EN 54-23
VDS-approval	G 214070
System-approval	S 210001, S 216001
CE-CPD-Number	0333-CPR-075444
CE-CPR-Number	0333-CPR-075444
Remarks	Assembly heigth: 2,4m (max), range (W-x-y): W-2,4-7,5 (135 m³)

WALL MOUNT COMBINED SIGNAL DEVICE - WHITE, ACCORDING TO EN 54-23 — ROLP LX W/R

VdS-approval   G 214070 (Cooper Fulleon Ltd.)

Part-No.: **32910**

Wall mounted combined LED signaling device for the external optical alarm according to EN 54-23 and acoustic signal.

- Signaling area (y) up to 7,5m, switchable to 2,5m
- Wide input voltage range
- Unique lense design
- Long lifetime and low current consumption
- Soft start

Technical Data

Supply Voltage	9 V bis 15 V DC (Fire Use), 18-28 V DC (Fire Use)
Alarm Current	22 mA to 37 mA; depending on the setup of sounder and beacon
Protection class	IP 65
Loudness	102 dB(A) at DIN-Tone
Flash rate	1Hz (switchable to 0,5 Hz)
Ambient temperature	-25°C to +70°C
Weight	200 g
Material	ABS
Colour	Red Flash
Colour variation	red
Colour housing	White housing
Standards	EN 54-23
VDS-approval	G 214070 (Cooper Fulleon Ltd.)
System-approval	S 210001, S 216001
CE-CPR-Number	0333-CPR-075444
Remarks	Assembly heigth: 2,4m (max), range (W-x-y): W-2,4-7,5 (135 m³)

OPTICAL ACOUSTICAL ALARM PANEL | POA543-C

Part-No.: **40218**

Conventional Optical Acoustic Alarm Panel With Buzzer ligthing with high luminosity LED, low current consumption

- 12V/24Vds, buzzer 94db@1m, IP55
- EN54-3, CE according to CPD/CPR

IP65 KIT FOR POA543 | P7540

Part-No.: **40207**

IP65 kit dedicated to POA543 panels

LINEAR
SMOKE DETECTORS

RELAY BEAM DETECTOR 30M - 1 REFLECTOR INCLUDED — Short beam DLFB30-R

Part-No.: 33567

Relay beam Detector for linear smoke detection supplied with reflector for distance from 3 up to 30 meters

• NO-NC FAULT, integrated laser pointer for alignment
• EN54-12, CE according to CPD/CPR

RELAY BEAM DETECTOR 100M - 9 REFLECTORS INCLUDED — Long beam DLFBe-R

Part-No.: 33575

Relay beam Detector for linear smoke detection supplied with reflector for distance from 3 up to 100 meters

• NO-NC FAULT, integrated laser pointer for alignment
• EN54-12, CE according to CPD/CPR

PROGRAMMING TOOL FOR BEAM AND GAS DETECTORS — DETTEL

Part-No.: 33636

Programming Tool With Display And Keypad for Beam and Gas Detectors, permits to adjust the alignment and program the beam

REMOTE BOX FOR DLFBe — BEAM-BR

Part-No.: 33653

Remote Box For Beam, permits remotely to enable/disable, reset, can be connected with remote control DETTL, 4 to 5 wires connections to the beam

SUNSHIEL PROTECT FOR REFLECTORS — BEAM-KIT4CC

Part-No.: 40048

Sunshield Protect For Reflectors, supplied for 4 reflectors 10x10 reflectors, permits to protect against sun rays

FLUSHMOUNTING BOX FOR DLFB30 — BEAM-FMbOX

Part-No.: 40047

Flushmounting box for DLFB30

IR-BEAM DETECTOR 120M INCL. CONTROL UNIT | FR 3000

VdS-approval   G 212034

Part-No.: **32827**

The optical infrared detector of the newest generation comes with sender, receiver and a remote control unit according to EN 54-12. Ideal for the use in modern and historic buildings with small surveillance areas and reflecting surfaces, high ceilings and museums.

• Detection of light and dark smoke
• Distance from 5 m to 120 m
• Integrated laser unit for easy adjusting of sender and receiver during installation
• Automatic drift compensation
• Up to 2 sender and 2 receiver per control unit
• Sensitivity levels individually programmable from 10 % to 60 %
• User friendly control unit with clear LC-Display
• Easy analyses of faults based on error codes
• Potential free relay for alarm and fault
• Connection to Loop 3000 via IOM
• Aesthetic compact design for the use wthin modern architecture as well as in historic buildings

Technical Data	
Supply Voltage	12 V to 36 V DC
Sensor type	IR: 850 nm wavelength
Protection class	IP 54
Operating temperature	-10°C to +55°C
Dimensions (H x B x T)	Control unit: 124 mm x 203 mm x 72 mm; sender, receiver: 77 mm x 78 mm x 161 mm
Monitoring distance	5 m to 120 m
Weight	Sender, receiver: appr. 0,207 kg
Material	Plastic, classified according to UL 94 V2 PC
Colour	Housing white (similar to RAL 9010)
Standards	EN 54-12
VDS-approval	G 212034
System-approval	S 210001, S216001
CE-CPD-Number	0786-CPD 21162
Remarks	Accessories: 1 Set sender and receiver, part-no. 32836

EXTENSION SET FOR FR 3000 (SENDER AND RECEIVER) | FR 3000 DS

VdS-approval   G 212034

Part-No.: **32836**

IR-Beam Detector extension set for part-no. 32827, FR 3000, according to EN 54-12.

• 1 set sender and receiver as extension of part-no. 32827, FR 3000
• Up to 2 sender and 2 receiver per control unit

Technical Data	
Sensor type	IR: 850 nm wavelength
Dimensions (H x B x T)	Sender, receiver: 77 mm x 78 mm x 161 mm
Weight	Sender, receiver: appr. 0,207 kg
Material	Plastic, classified according to UL 94 V2 PC
Colour	Housing white (similar to RAL 9010)
Standards	EN 54-12
VDS-approval	G 212034
System-approval	S 210001, S 216001
CE-CPD-Number	0786-CPD 21162

MOUNTING BRACKET | FR 3000 MH

Part-No.: **32848**

Adjustment Bracket for FR 3000 offering 360 degree rotation [plus] 180 degree adjustment.

MOUNTING PLATE | FR 3000 MP

Part-No.: **32849**

Flush Mount Plate for FR3000. (Requires the F3000 Base PCB)

CONTROL UNIT FOR BEAM DETECTOR — FR 5000

VdS-approval   G 208017

Part-No.: **32476**

Infrared Beam Detector with automatic adjustment by an infrared sender and receiver unit including a reflection prism. The Fireray 5000 requires 1 prism for the range of 8-50 m and 4 prism for the range of 50 to 100 m

• Modular design
• Adjustment of the system to the local conditions
• Automatic adjustment of the beam detector can be activated or deactivated
• LCD display with optical menue navigation in the display for an easy operation
• 2 m wire interface between smoke detector and system controller
• Adjustment of the sensitivity with threshold values in the range of 10 % to 60 %
• Connection to the Loop 3000 via IOM
• Adjustment of the delay times individually for fire and fault from 2 to 30 seconds
• Automatic compensation for building movement
• Setup of delay separated for alarm and fault
• The scope of delivery includes a detector unit, a control unit and a prism

Technical Data

Supply Voltage	14 V to 28 V DC
Quiescent Current	8 to 12 mA
Alarm Current	48 bis 52 mA
Protection class	IP 54
Humidity	max. 93% (not condensing)
Dimensions (H x B x T)	135 mm x 134 mm x 134 mm (sender/receiver)
Weight	1,67 kg
Material	Housing: UL94V0
Standards	DIN EN 54-12
VDS-approval	G 208017
System-approval	S 208123
CE-CPD-Number	0832-CPD-0565
Remarks	Accessories: prism (part.-no. 32471)

IR-BEAM DETECTOR INCL. 1 PRISM — ME FR 5000

VdS-approval   G 208017

Part-No.: **32741**

Infrared sender and receiver unit with automatic adjustment including a reflection prism for the expansion of an existing FR 5000. The Fireray 5000 requires 1 prism for the range of 8-50 m and 4 prism for the range of 50 to 100 m

• Adjustment of the system to the local conditions
• Automatic adjustment of the beam detector can be activated or deactivated
• Up to 2 detector units on 1 FR5000 control unit connectable
• 2 m wire interface between smoke detector and system controller
• Automatic compensation for building movement
• Adjustment of the delay times individually for fire and fault from 2 to 30 seconds
• Automatic compensation for building movement
• Setup of delay separated for alarm and fault

Technical Data

Supply Voltage	Via control module
Protection class	IP 54
Humidity	max. 93% (not condensing)
Monitoring distance	8 m to 50 m with one reflection prism; 50 m to 100 m with four reflection prism
Weight	544 g
Material	Housing: UL94V0
Colour	grey/ black
Standards	EN 54-12
VDS-approval	G 208017
System-approval	S 210001, S 216001
CE-CPD-Number	0832-CPD-0565

EXTENSION PRISM FOR FR 5000 — EP 01

Part-No.: **32471**

Reflection prism to use the surveillance areas for the linear infrared smoke detector FR 50 RV, FR 100 RV and FR 5000. The scope of delivery includes one reflection prism

Technical Data

Dimensions (H x B x T)	100 x 100 x 9,5 mm

MOUNTING PLATE 1 PRISM — MPP1

Part-No.: 32742

Mounting plate 1 prism with pre-drilled holes to fix one reflector prism and for the mounting to a universal bracket.

- 1-x prism assembly to mount (part-no. 32471)
- Suitable for universal mounting bracket (part-no.32850)

Technical Data

Dimensions (H x B x T)	102 mm x 102 mm x 2 mm
Weight	104 g
Material	Sheet metal
Colour	Grey

MOUNTING PLATE 4 PRISM — MPP4

Part-No.: 32743

Mounting plate 4 prism with pre-drilled holes to fix one reflector prism and for the mounting to a universal bracket.

- 4 x prism assembly plate to mount 4 prisms (part-. 32471)
- Suitable for universal mounting bracket (part-no.32850)

Technical Data

Dimensions (H x B x T)	204 mm x 204 mm x 9 mm
Weight	329 g
Material	Sheet metal
Colour	Grey

UNIVERSAL BRACKET FOR PRISM MOUNTING PLATE AND FR 5000 — UH

Part-No.: 32850

Universal bracket for mounting the beam detector head FR 5000 as well as the 1 and 4 reflector plates for the FR 5000, FR 50 and FR 100

- Rugged bracket with a movable seat for easy alignment of the components
- Suitable for the installation of the beam detector head FR 5000 as well as the 1 and 4 reflector plates for FR 5000, FR 50 nd FR 100
- 6,5 mm diameter of the screw holes

Technical Data

Dimensions (H x B x T)	135 mm x 135 mm x 90 mm
Weight	appr. 150 g
Colour	Grey

LINEAR
HEAT AND IP65
DETECTORS

LINEAR HEAT DETECTION CABLE DIGITAL 68°C | HC68

Part-No.: 40138

Linear Heat Detection cable 68° (price per meter) connectable directly to conventional panels or addressable modules

LINEAR HEAT DETECTION CABLE DIGITAL 105°C | HC105

Part-No.: 40137

Linear Heat Detection cable 105° (price per meter) connectable directly to conventional panels or addressable modules

ALARMLINE II, SENSOR CABLE RED, PVC | SKR

Part-No.: 33068

The Alarmline II sensor cables consist of four wires. Two wires with transparent outer coating comprise a copper conductor, which is coated with a temperature-sensitive polymer, the resistance of which changes as the temperature changes. The wire with the white outer sheath provides the calibration resistance and the wire with the red outer sheath monitors the average ambient temperature. The foil shield and the external protective layer extrude over the twisted wires.

• Dust and water resistant
• Suitable for indoor applications

Technical Data

Operating temperature	-40 °C to +90 °C
Outer diameter	4,57mm +/- 0,075mm
Weight	23,70 g per metre
Material	PVC
Colour	Red

ALARMLINE II LINEAR HEAT DETECTOR | Linear heat detector

VdS-approval   Application for approval under EN 54-22 currently underway

Part-No.: 33067

The analogue, linear heat detection system Alarmline II is a flexible, long-lasting method of fire detection, suitable for use in tight spaces or in rough ambient conditions. The system consists of an evaluation unit that can be programmed via PC and a sensor cable. The Alarmline II sensor cable is a four-conductor cable that detects temperature changes by continuously monitoring the resistance of the specially designed polymer insulation (NTC). An abnormal change in resistance along the sensor cable either triggers a pre-alarm or an alarm in the evaluation unit. The Alarmline II evaluation unit is used to monitor the Alarmline II sensor cable and configure the alarm and pre-alarm temperatures and provides the interfaces to the FCP.

• For us in tunnels, multistorey car parks, escalators, conveyor belts, cold store systems, high-voltage installations, recycling systems, etc.
• Pre-alarm and alarm temperatures are programmed via a laptop with the programming software installed
• Potential-free changeover contacts for pre-alarm and alarm; opto-insulated phototransistor as error output
• Alarm/pre-alarm indicator: red LED
• Fault indicator: yellow LED
• Power supply indicator: green LED
• Remote reset possible
• With cable-break and short-circuit monitoring
• Combined max/diff detector configurable for response classes A1, A2, B, C and freely configurable
• For connection of up to 500 m sensor cable
• Detects excessive temperatures even over long distances
• Resistant to mechanical and chemical influences, corrosion, moisture, dust
• Connection to Loop 3000 via IOM3311; see connection diagram 56567
• Terminator unit for terminating the end of the sensor cable provided

Technical Data

Supply Voltage	20V - 28V DC
Quiescent Current	< 70mA
Alarm Current	< 80mA
Input	External reset: insulated input for remote module reset (20–28 V DC pulse for min. 5 sec.)
Output	Pre-alarm/alarm: (changeover contact) 2 A at 30 V DC; fault: opto-insulated phototransistor max. 50 V at 20 mA
Protection class	IP 65
Operating temperature	0°C - 50°C
Humidity	0% – 95 RH (max. 75% RH with < 75 m cable and 54°C alarm temperature)
Dimensions (H x B x T)	180 x 182 x 90mm
Weight	804 g
Material	Polycarbonate
Colour	Light grey
Standards	Developed in accordance with EN 54-22
VDS-approval	Application for approval under EN 54-22 currently underway
Further approvals	UL 521
Remarks	Manufacturer: Kidde Deutschland GmbH

ALARMLINE II TERMINATING UNIT — ASE

Part-No.: 33933

The AAECU-EOL is an end-of-line termination unit for use with the LHD analog control unit (Alarm-Line II Analog EN linear heat detector evaluation unit). The AAECU control unit/ or evaluation unit is always supplied with an AAECU-EOL.

Technical Data	
Operating temperature	-40 - +125°C
Humidity	0 to 99% Ambient temperature -40 to +40°C
Protection Class	IP65
Dimensions (H x W x D)	35 mm x 100 mm x 60 mm
Weight	115 g
Material	Rugged aluminum housing
Standards	VdS EN54-22:2015/prA1:2007 CE, EN54-22,

ALARMLINE II INTERCONNECTOR BOX — ZVB II

Part-No.: 33953

The AAECU-JUN is a junction box which must be used when joining two pieces of AlarmLine II Analogue EN LHD Cable. This is key to ensure that the junction does not influence the performance of the cable and integrity of the whole detection system.

- Simple through-connection of linear heat cables
- With integrated connection fitting
- Cable inlet glands included

Technical Data	
Protection Class	IP65
Standards	VdS EN54-22:2015/prA1:2007 CE, EN54-22, VdS
VdS-Approval	G220035

ALARMLINE II - CONFIGURATION SOFTWARE — Alarmline II - Software

Part-No.: 33952

FIXING BASE FOR SENSOR CABLE, PACK OF 200 PIECES — FXS

Part-No.: 33934

Base for fixing the sensor cable

- VE: 200 piece

DOWEL CLAMP FOR FIXING BASE, PACK WITH 200 PIECES — DKS

Part-No.: 33935

Dowel clamp for fixing base

- VE: 200 piece
- The ALARMLINE II sensor cable should be fixed every 0.5 m to ensure correct fxing.

IP66 HEAT DETECTORS EN54-5 (CLASSES A2 C) - 54°C/130°C

TMP2-D-A257R1A

Part-No.: 40782

CONVENTIONAL IP66 Heat detector - RATE OF RISE + FIXED , CLASS A2 , T° = 57°C - Certified EN54-5 CE/CPR
Temperature set-point level setting from -20°C to 110°C - Fixed or rate of rise
Configuration possible at the factory or via programming software
In this case the EN54-5 certification is not anymore guaranteed.

• Certified EN54-5 CE-CPR
• IP66 housing
• High reliability
• Dependance long-life
• Immune from EMI disturbances
• Temperature set-point level setting from -20°C to 110°C
• Optional 4-20 mA Output

TMP2-D-C90R1A

Part-No.:

CONVENTIONAL IP66 RATE OF RISE + FIXED HEAT DETECTOR - CLASS C
, T° = 90°C - Certified EN54-5 CE/CPR
Temperature set-point level setting from -20°C to 110°C - Fixed or rate of rise
Configuration possible at the factory or via programming software
In this case the EN54-5 certification is not anymore guaranteed.

• Certified EN54-5 CE-CPR
• IP66 housing
• High reliability
• Dependance long-life
• Immune from EMI disturbances
• Temperature set-point level setting from -20°C to 110°C
• Optional 4-20 mA Output

ATEX HEAT DETECTORS II 2G EEX-D IIC T6 - EN54-5

TMP2-JO-A257R1A

Part-No.: 40780

CONVENTIONAL RATE OF RISE + FIXED HEAT DETECTOR, CLASS A2,
 T° = 57°C, certified EN54-5 CE-CPR and ATEX II 2GD Ex db tb IIC IIIC T6 T85°C - IP65.
Temperature set-point level setting from -20°C to 110°C - Fixed or rate of rise
Configuration possible at the factory or via programming tools. If not configured in the factory the EN54-5 certification cannot be guaranteed
Available in 2 different housings: JO (1 WAY 1/2" connection box) / TO (2 ways 1/2" connection box)
3 absorbtion levels available

• Certified EN54-5 CE-CPR and ATEX Zone 1/21 & Zone 2/22
• Particularly suitable in very dangerous environmental conditions such as in the presence of corrosive elements or condensing steams.
• High reliability
• Dependance long-life
• Immune from EMI disturbances

TMP2-JO-C90R1A

Part-No.: 40781

CONVENTIONAL RATE OF RISE + FIXED HEAT DETECTOR, CLASS C, T° = 90°C, certified EN54-5 CE-CPR and ATEX II 2GD Ex db tb IIC IIIC T6 T85°C - IP65.
Temperature set-point level setting from -20°C to 110°C - Fixed or rate of rise
Configuration possible at the factory or via programming software
In this case the EN54-5 certification is not anymore guaranteed.

• Certified EN54-5 CE-CPR and ATEX Zone 1/21 & Zone 2/22
• Particularly suitable in very dangerous environmental conditions such as in the presence of corrosive elements or condensing steams.
• High reliability
• Dependance long-life
• Immune from EMI disturbances

MOUNTING BRACKET FOR TMP2

GDA-M/B-KF4A

Part-No.:
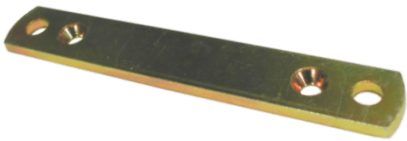
Mounting bracket (105x18mm holes wheelbase 87mm) for TMP2-J/T/JO/TO

CABLE GLAND ATEX, NOT ARMOURED

GDA-CH12-NA

Part-No.: 40716

1/2"NPT cable gland Atex Exd, nickel-plated brass, for NOT armoured cables

CABLE GLAND ATEX, ARMOURED

GDA-CH12

Part-No.:

1/2" NPT cable gland Atex Exd, nickel-plated brass, for armoured cables

TMP2 CONFIGURATION SOFTWARE

FIT-MTPRO

Part-No.: 40714

Software for configuration and maintenance of TMP2 heat detectors. Including connection cable and USB/RS232 adapter.

AIR SAMPLING
SYSTEM

CONVENTIONAL SINGLE CHANNEL WITH SMOKE LEVEL INDICATOR — DFA05-1C-B

Part-No.: 40558

Conventional Single Channel High Sensitivity Base Detector for one sampling tube wtih smoke level indicator, to be completed with one detector module SSD.

- EN54-20
- CE according to CPD/CPR

CONVENTIONAL DUAL CHANNEL WITH SMOKE LEVEL INDICATOR — DFA05-2C-B

Part-No.: 40559

Conventional Dual Channel High Sensitivity Base Detector for one or two sampling tubes wtih smoke level indicator, to be completed with one or two detectors modules SSD.

- EN54-20
- CE according to CPD/CPR

CONVENTIONAL SINGLE CHANNEL WITHOUT SMOKE LEVEL INDICATOR — DFA05-1C

Part-No.: 40081

Conventional Single Channel High Sensitivity Base Detector for one sampling tube wtih smoke level indicator, to be completed with one detector module SSD.

- EN54-20
- CE according to CPD/CPR

CONVENTIONAL DUAL CHANNEL WITH SMOKE LEVEL INDICATOR — DFA05-2C

Part-No.: 40083

Conventional Dual Channel High Sensitivity Base Detector for one or two sampling tubes wtih smoke level indicator, to be completed with one or two detectors modules SSD.

- EN54-20
- CE according to CPD/CPR

HIGH SENSITIVITY SMOKE DETECTOR MODULE 0.5%/M TO 10%/M
SSD 535-1
Part-No.: 40276

High Sensitivity Smoke Detector Module with alarm sensitivity range from 0.05%/m to 10%/m to be plugged in DFA05.

HIGH SENSITIVITY SMOKE DETECTOR MODULE 0.01%/M TO 10%/M
SSD 535-2
Part-No.: 40275

High Sensitivity Smoke Detector Module with alarm sensitivity range from 0.01%/m to 10%/m to be plugged in DFA05.

HIGH SENSITIVITY SMOKE DETECTOR MODULE 0.02%/M TO 10%/M
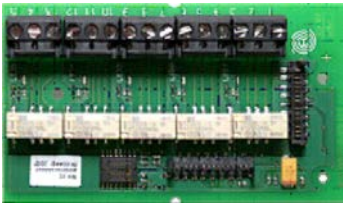### SSD 535-3
Part-No.: 40277

High Sensitivity Smoke Detector Module with alarm sensitivity range from 0.02%/m to 10%/m to be plugged in DFA05.

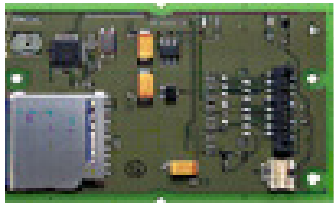## RELAY INTERFACE MODULE
RIM35
Part-No.: 40233

Relay Interface Module with 5 programmable relays, NO-NC 30V/1A to be plugged in DFA05

MEMORY CARD MODULE
MCM35
Part-No.: 40185

Memory Card Module to be plugged in DFA05 permits to record operating data and store memory events

BOX FOR NETWORK, INTERFACE WITH COMPUTER
SMM35
Part-No.: 40270

Box for network. Interface between network and computer

PLUG IN BOARD FOR NETWORK UP TO 250 DEVICES
SIM35
Part-No.: 40269

Plug in board for network. Permits to have RS485 with addressable network between DFA05, up to 250 devices

SYSTEM DESIGN SOFTWARE	SAMPLING PIPE CONFIG
	Part-No.: 40243

System Design Software permits to define the network pipe

PROGRAMMING SOFTWARE	DFA05 CONFIG
	Part-No.: 40079

Programming Software permits to download/upload data configuration through USB cable (not supplied)

FILTER BOX SMALL	FBS 25PC
	Part-No.: 40112

Filter Box Small Ø 25mm, PC

SMALL SPARE FILTER	FILTER MAT-S
	Part-No.: 40114

Filter Mat Small for FBS 25 PC

FILTER BOX LARGE	FBL 25 PC
	Part-No.: 40111

Filter Box Large Ø 25mm, PC

LARGE SPARE FILTER	FILTER MAT-L
	Part-No.: 40113

Filter Mat Large for FBL 25 PC

DUST BOX PC	DTP 25PC
	Part-No.: 40103

Dust Box, PC, adapted to all materia Ø 22 - 25 mm pipe

DUST RETAINING BOX (CYCLONE) — DRB 25 PVC

Part-No.: 40111

Dust retaining box (cyclone) Ø 25mm PVC

WATER RETAINING BOX PVC — WRB 25 PVC

Part-No.: 40330

Water retaining box, Ø 25mm PC/PVC. Linking by gland on sampling pipe side and by glue on aspirating smoke side

WATER RETAINING BOX ABS — WRB 25 ABS

Part-No.: 40329

Water retaining box Ø 25mm PC/ABS. Linking by gland on sampling pipe side and by glue on aspirating smoke side

MANUAL BALL VALVE ø 25MM ABS FOR MAINTENANCE USE — MV 25 ABS

Part-No.: 32982

Manual ball valve Ø 25mm, ABS, for maintenance use

CONVENTIONAL SINGLE CHANNEL ASPIRATING DETECTOR MINI-40 FOR 12 HOLES MAX — DFA05 MINI-40
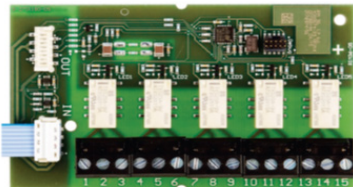
Part-No.: 40560

Conventional Single Channel Aspiration Detector for one sampling tube network with a maximum of 12 sampling holes which included its own smoke module.

RELAY INTERFACE MODULE FOR MINI-40 — RIM36

Part-No.: 40234

Relay Interface Module with 5 programmable relays, NO-NC 30V/1A to be plugged in DFA05 Mini-40

FIREPROOF AIR SAMPLING PIPE 25 MM RED COLOUR — TU25RF

Part-No.: 40468

Firproof Air Sampling Pipe 25mm (3m length), red colour (batch of 30)

FIREPROOF STAIGHT SOCKET 25 MM RED COLOUR — EN25RF

Part-No.: 40379

Fireproof Straight Socket 25mm, red colour, (batch of 20)

FIREPROOF EQUAL TEE PIECE FOR 25 MM TUBE RED COLOUR — TE25RF

Part-No.: 40466

Fireproof Equal Tee Piece for 25mm tube, red colour, (batch of 10)

FIREPROOF EQUAL TEE PIECE FOR 8MM CAPILLARY TUBBE OR SAMPLE POINT RED — T 25/8

Part-No.: 40280

Fireproof Equal Tee Piece for 8mm capillary tube or sample point, red colour, (batch of 10)

FIREPROOF END CAP — TT25RF

Part-No.: 40300

Fireproof End Cap, for 25mm tube, red colour, (batch of 10)

FIREPROOF 90° ELBOW — C90RF

Part-No.: 40358

Fireproof 90] Elbow, for 25 mm tube, red colour; (batch of 5)

FLEXIBLE ELBOW — CF70

Part-No.: 40067

Flexible Elbow for 25mm tube, (batch of 4)

FIREPROOF 45° ELBOW — C45RF

Part-No.: 31135

Fireproof 45° Elbow, for 25 mm tube, red colour; (batch of 5)

FLEXIBLE TUBE — TF.10

Part-No.: 40005

Rexible tube 1m length

CAPILLARY TUBE — TC.8

Part-No.: 31152

Capillary Tube (10mm; 8mm ID) (100m roll)

FIREPROOF CLIP — ABR

Part-No.: 40510

Fireproof Pipe Clip for 25mm tube, red colour, (batch of 50)

FIREPROOF UNION TUBE — UTRF

Part-No.: 40303

Fireproof Union Tube for 25mm tube, red colour, (batch of 10)

SAMPLING POINT — PMTU

Part-No.: 40217

Sample Point 8mm, (btach of 10)

CONIC SAMPLING POINT — PMC

Part-No.: 40211

Conic Sampling Point, (btach of 10)

PLATE SAMPLING POINT — PMPT

Part-No.: 40215

Plate Sampling Point with nut, (batch of 10)

PLATE SAMPLING POINT — PMP

Part-No.: 40214

Plate Sampling Point with screw, (batch of 10)

SAMPLING POINT — PMC/8

Part-No.: 40213

Sampling Point for capillary tube, (batch of 10)

SET OF OUTER SAMPLING HOLES — PMC/10

Part-No.: 40212

Raise For Clip, raises for 17mm, (batch of 10)

EXTENSION LEAD — PRPM

Part-No.: 40221

Extension Lead for sampling point, (batch of 10)

WATERPROOF ENDCAP — TL

Part-No.: 40228

Waterproof Endcap, (batch of 10)

LASER-SMOKE ASPIRATION SYSTEM HSSD2 M W/O DISPLAY — HSSD-2

VdS-approval   G 203024

Part-No.: **31867**

Intelligent active laser - smoke aspiration detector for earliest detection of fires in sensitive and extreme contaminated areas e.g. EDP-control room, hospital operating room, storage area, incineration plant, etc. Without display.

- Integrated automatic adjustment of the detector to the ambient conditions via intelligent teach in modes
- Intelligent laser sensor technology with consideration of ambient conditions for fast detection in difficult environments
- Highest reliability by optimal adjustment of the alarm threshold via intelligent algorithm for the fire detection
- Unwanted alarms from dust are avoided using patented Dual Technology LDD 3D3, Laser dust discrimination and elimination system
- Automatic day-/night mode for the adjustment from and to temporally different ambient conditions
- Integrated fast learn for the automatic configuration of the system
- Special integrated technology for the elimination of influences by pollution (dust etc.)
- Integrated dust filter
- 4 sampling pipes, up to 250 m maxium length:
- Total pipe lenght 200 m up to 100 sampling holes
- Maximum amount of holes according to EN 54-20 Class C : 80, Class B: 60, Class A: 20
- 1 recirculation pipe for the compensation of the intrasystem pressure gradient
- Integrated RS 485-interface for the network of up to 127 participants
- Integrated potential free relays outputs for alarm and fault
- External voltage supply required
- Connection to the Loop 3000 via IOM

Technical Data

Supply Voltage	21,6 V to 26,4 V DC externally
Current consumption	450 mA at 24 V DC
Output	5 potential free relays for info, pre-alarm, fire 1, fire 2, fault
Protection class	IP 50
Ambient temperature	-10°C to +60°C
Humidity	max. 90% (not condensing)
Sensitivity	Adjustable from 0,002 to 25% obs/m
Particle sensitivity	0,0003 µm to 10 µm
Dimensions (H x B x T)	372 mm x 427 mm x 95 mm
Pipe diameter	3/4"
Weight	5,2 kg
Material	Cast aluminum, ABS
Colour	Housing light grey
Standards	DIN EN 54-20
VDS-approval	G 203024
System-approval	S 210001, S 216001
Further approvals	LPCB, CCC
Remarks	Software for planning included

AIR SAMPLING HIGH SENSITIVITY DETECTION STRATOS

LASER-SMOKE ASPIRATION SYSTEM HSSD2 M

HSSD-2 M

Part-No.: **31114**

Intelligent active laser - smoke aspiration detector for earliest detection of fires in sensitive and extreme contaminated areas e.g. EDP-control room, hospital operating room, storage area, incineration plant, etc.

• Integrated LC-Display with 2 x 16 characters, arrow keys control panel
• Integrated automatic adjustment of the detector to the ambient conditions via intelligent teach in modes
• Intelligent laser sensor technology with consideration of ambient conditions for fast detection in difficult environments
• Highest reliability by optimal adjustment of the alarm threshold via intelligent algorithm for the fire detection
• Unwanted alarms from dust are avoided using patented Dual Technology LDD 3D3, Laser dust discrimination and elimination system
• Automatic day-/night mode for the adjustment from and to temporally different ambient conditions
• Integrated fast learn for the automatic configuration of the system
• Special integrated technology for the elimination of influences by pollution (dust etc.)
• Integrated dust filter
• 4 sampling pipes, up to 250 m maxium length:
• Total pipe lenght 200 m up to 100 sampling holes
• Maximum amount of holes according to EN 54-20 Class C : 80, Class B: 60, Class A: 20
• 1 recirculation pipe for the compensation of the intrasystem pressure gradient
• Integrated RS 485-interface for the network of up to 127 participants
• Integrated potential free relays outputs for alarm and fault
• External voltage supply required
• Connection to the Loop 3000 via IOM

Technical Data

Supply Voltage	21,6 V to 26,4 V DC externally
Current consumption	450 mA at 24 V DC
Output	5 potential free relays for info, pre-alarm, fire 1, fire 2, fault
Protection class	IP 50
Ambient temperature	-10°C to +60°C
Humidity	max. 90% (not condensing)
Sensitivity	Adjustable from 0,002 to 25% obs/m
Particle sensitivity	0,0003 µm to 10 µm
Dimensions (H x B x T)	372 mm x 427 mm x 95 mm
Pipe diameter	3/4"
Weight	5,2 kg
Material	Cast aluminum, ABS
Colour	Housing light grey
Standards	DIN EN 54-20
VDS-approval	G 203024
System-approval	S 210001, S 216001
CE-CPD-Number	0832-CPD-1076
Further approvals	LPCB, CCC

AIR SAMPLING HIGH SENSITIVITY DETECTION STRATOS

LASER-SMOKE ASPIRATION SYSTEM HSSD2 M WITH CONTROL UNIT

HSSD-2 MS

VdS-approval   G 203024

Part-No.: **31115**

Intelligent active laser - smoke aspiration detector for earliest detection of fires in sensitive and extreme contaminated areas e.g. EDP-control room, hospital operating room, storage area, incineration plant, etc. Including a control module to display all connected detectors and components.

• Integrated LC-Display with 2 x 16 characters, arrow keys control panel
• Integrated automatic adjustment of the detector to the ambient conditions via intelligent teach in modes
• Intelligent laser sensor technology with consideration of ambient conditions for fast detection in difficult environments
• Highest reliability by optimal adjustment of the alarm threshold via intelligent algorithm for the fire detection
• Unwanted alarms from dust are avoided using patented Dual Technology LDD 3D3, Laser dust discrimination and elimination system
• Automatic day-/night mode for the adjustment from and to temporally different ambient conditions
• Integrated fast learn for the automatic configuration of the system
• Special integrated technology for the elimination of influences by pollution (dust etc.)
• Integrated dust filter
• 4 sampling pipes, up to 250 m maxium length:
• Total pipe lenght 200 m up to 100 sampling holes
• Maximum amount of holes according to EN 54-20 Class C : 80, Class B: 60, Class A: 20
• 1 recirculation pipe for the compensation of the intrasystem pressure gradient
• Integrated RS 485-interface for the network of up to 127 participants
• Integrated potential free relays outputs for alarm and fault
• External voltage supply required
• Connection to the Loop 3000 via IOM

Technical Data

Supply Voltage	21,6 V to 26,4 V DC externally
Current consumption	450 mA at 24 V DC
Output	5 potential free relays for info, pre-alarm, fire 1, fire 2, fault
Protection class	IP 50
Ambient temperature	-10°C to +60°C
Humidity	max. 90% (not condensing)
Sensitivity	Adjustable from 0,002 to 25% obs/m
Particle sensitivity	0,0003 µm to 10 µm
Dimensions (H x B x T)	372 mm x 427 mm x 95 mm
Pipe diameter	3/4"
Weight	5,2 kg
Material	Cast aluminum, ABS
Colour	Housing light grey
Standards	DIN EN 54-20
VDS-approval	G 203024
System-approval	S 210001, S 216001
CE-CPD-Number	0832-CPD-1077
Further approvals	LPCB, CCC

CONTROL UNIT FOR LASER SMOKE ASPIRATION SYSTEM NETWORK — HSSD-2 S

VdS-approval   G 203024

Part-No.: **31117**

Command module: Ability to setup, change and view any smoke aspiration system on the network

- Integrated LC-Display with 2 x 16 characters, arrow keys control panel
- External voltage supply required
- Integrated RS 485-interface for the network of up to 127 participants
- Integrated potential free relays outputs for alarm and fault

Technical Data

Supply Voltage	21,6 V to 26,4 V DC externally
Current consumption	250 mA to 24 V DC
Protection class	IP 50
Ambient temperature	-10°C to +60°C
Humidity	max. 90% (not condensing)
Dimensions (H x B x T)	372 mm x 427 mm x 95 mm
Weight	5,2 kg
Material	Cast aluminum, ABS
Standards	DIN EN 54-20
VDS-approval	G 203024
System-approval	S 210001, S 216001
CE-CPD-Number	0832-CPD-1077
Further approvals	LPCB, CCC

LASER SMOKE ASPIRATION SYSTEM MICRA 100 — Micra 100

VdS-approval   G 209217

Part-No.: **31476**

Intelligent active laser - smoke aspiration detector for earliest detection of fires in sensitive and extreme contaminated areas e.g. EDP-control room, hospital operating room, storage area, incineration plant, etc.

- Integrated automatic adjustment of the detector to the ambient conditions via intelligent teach in modes
- Intelligent laser sensor technology with consideration of ambient conditions for fast detection in difficult environments
- Highest reliability by optimal adjustment of the alarm threshold via intelligent algorithm for the fire detection
- Unwanted alarms from dust are avoided using patented Dual Technology LDD 3D3, Laser dust discrimination and elimination system
- Automatic day-/night mode for the adjustment from and to temporally different ambient conditions
- Integrated fast learn for the automatic configuration of the system
- Special integrated technology for the elimination of influences by pollution (dust etc.)
- Integrated dust filter
- 2 sampling pipes, up to 100 m maximun length:
- Sampling holes Class C: 20 pcs; Class B: 20 pcs; Class A: 20 pcs
- 1 recirculation pipe for the compensation of the intrasystem pressure gradient
- Integrated RS 485-interface for the network of up to 127 participants
- External voltage supply required
- Connection to the Loop 3000 via IOM
- Including mounting base and connection flange for the recirculation pipe

Technical Data

Supply Voltage	21,6 V to 26,4 V DC externally
Current consumption	400 mA at 24 V DC
Protection class	IP 50
Ambient temperature	-10°C to +60°C
Humidity	max. 90% (not condensing)
Sensitivity	Adjustable from 0,03 to 25% obs/m
Particle sensitivity	0,0003 μm to 10 μm
Dimensions (H x B x T)	200 mm x 293 mm x 83 mm
Pipe diameter	3/4"
Weight	3,7 kg
Material	Cast aluminum, ABS
Colour	Housing light grey
Standards	DIN EN 54-20
VDS-approval	G 209217
System-approval	S 216001
CE-CPD-Number	0832-CPD-0982
Remarks	Accessories: Relay board (part-no. 32236) with 5 potential free relay outputs, 4 for „alarm" 1 for „fault"

LASER SMOKE ASPIRATION SYSTEM MICRA 100 REC
Micra 100 REC

VdS-approval   G 209217

Part-No.: **32330**

Intelligent active laser-smoke aspiration detector for earliest detection of fires in sensitive and extreme contaminated areas e.g. EDP-control room, hospital operating room, storage area, incineration plant, etc. with integrated relay card.

• Integrated automatic adjustment of the detector to the ambient conditions via intelligent teach in modes
• Intelligent laser sensor technology with consideration of ambient conditions for fast detection in difficult environments
• Highest reliability by optimal adjustment of the alarm threshold via intelligent algorithm for the fire detection
• Unwanted alarms from dust are avoided using patented Dual Technology LDD 3D3, Laser dust discrimination and elimination system
• Automatic day-/night mode for the adjustment from and to temporally different ambient conditions
• Integrated fast learn for the automatic configuration of the system
• Special integrated technology for the elimination of influences by pollution (dust etc.)
• Integrated dust filter
• 2 sampling pipes, up to 100 m maximun length:
• Total pipe lenght 100 m up to 25 sampling holes
• 1 recirculation pipe for the compensation of the intrasystem pressure gradient
• Integrated RS 485-interface for the network of up to 127 participants
• External voltage supply required
• Connection to the Loop 3000 via IOM
• Including mounting base and connection flange for the recirculation pipe

Technical Data	
Standards	54-20
VDS-approval	G 209217

LASER SMOKE ASPIRATION SYSTEM MICRA 25
Micra 25

VdS-approval   G 207078

Part-No.: **31118**

Intelligent active Laser - smoke aspiration detector for earliest detection of fires in sensitive and extreme contaminated areas e.g. EDP-control room, hospital operating room, storage area, incineration plant, etc.

• Integrated automatic adjustment of the detector to the ambient conditions via intelligent teach in modes
• Intelligent laser sensor technology with consideration of ambient conditions for fast detection in difficult environments
• Highest reliability by optimal adjustment of the alarm threshold via intelligent algorithm for the fire detection
• Unwanted alarms from dust are avoided using patented Dual Technology LDD 3D3, Laser dust discrimination and elimination system
• Automatic day-/night mode for the adjustment from and to temporally different ambient conditions
• Integrated fast learn for the automatic configuration of the system
• Special integrated technology for the elimination of influences by pollution (dust etc.)
• Integrated dust filter
• 1 sampling pipe
• Total pipe length 50 m up to 10 sampling holes (25 m at highest sensitivity)
• 1 recirculation pipe for the compensation of the intrasystem pressure gradient
• Integrated RS 485-interface for the network of up to 127 participants
• External voltage supply required
• Connection to the Loop 3000 via IOM
• Including mounting base and connection flange for the recirculation pipe

Technical Data	
Supply Voltage	21,6 V to 26,4 V DC externally
Current consumption	250 mA to 24 V DC
Protection class	IP 50
Ambient temperature	-10°C to +60°C
Humidity	max. 90% (not condensing)
Sensitivity	Adjustable from 0,03 to 25% obs/m
Particle sensitivity	0,0003 μm to 10 μm
Dimensions (H x B x T)	175 mm x 135 mm x 83 mm
Weight	1,01 kg
Material	Cast aluminum, ABS
Colour	Housing light grey
Standards	DIN EN 54-20
VDS-approval	G 207078
System-approval	S 210001, S 216001
CE-CPD-Number	0832-CPD-0981
Further approvals	LPCB, CCC
Remarks	Accessories: relay board (part-no. 32236) with 5 potential free relay outputs, 4 for „alarm" 1 for „fault"

LASER SMOKE ASPIRATION SYSTEM MICRA 25 REC — Micra 25 REC

VdS-approval   G 207078

Part-No.: **32313**

Intelligent active laser - smoke aspiration detector with integrated relay board for earliest detection of fires in sensitive and extreme contaminated areas e.g. EDP-control room, hospital operating room, storage area, incineration plant, etc.

- Integrated automatic adjustment of the detector to the ambient conditions via intelligent teach in modes
- Intelligent laser sensor technology with consideration of ambient conditions for fast detection in difficult environments
- Highest reliability by optimal adjustment of the alarm threshold via intelligent algorithm for the fire detection
- Unwanted alarms from dust are avoided using patented Dual Technology LDD 3D3, Laser dust discrimination and elimination system
- Automatic day-/night mode for the adjustment from and to temporally different ambient conditions
- Integrated fast learn for the automatic configuration of the system
- Special integrated technology for the elimination of influences by pollution (dust etc.)
- Integrated dust filter
- 1 sampling pipe
- Total pipe lenght 50 m up to 10 sampling holes (25 m at highest sensitivity)
- 1 recirculation pipe for the compensation of the intrasystem pressure gradient
- Integrated RS 485-interface for the network of up to 127 participants
- External voltage supply required
- Connection to the Loop 3000 via IOM
- Including mounting base and connection flange for the recirculation pipe

Technical Data

Standards	54-13, 54-20
VDS-approval	G 207078
CE-CPD-Number	0832-CPD-0981

5-RELAY BOARD FOR MICRA — REC

Part-No.: **32236**

Relay board to connect a laser - smoke aspiration detector to the fire control panel.

- 5 potential free relays to connect to a fire control panel (2 x alarm, 1 x pre-alarm, 1 x info-alarm, 1 x fault)
- 3 freely usable inputs to program finctions such as reset of the detector, reduce sensitivity, display of battery capacity
- Maximum switching power: 24 Watts
- Assembly by plug connection into the adapter on the main board
- Compatible to all Micra series laser smoke aspiration systems

Technical Data

Output	5 Relay shutter 0,4 A / 24 V
Ambient temperature	-10°C to +60°C
Dimensions (H x B x T)	68 mm x 100 mm x 25 mm

STRATOS AIR HEATER — Stratos air heater

Part-No.: **32979**

Air heater for the use of laser - smoke aspiration detector in ambient conditions with humidity or condensation challenges below minus 10°C.

- To heat up and dry the sampling air at low ambient temperatures below minus 10°C
- Directly mounted in front of the detector integrated in the pipe
- Connection 230 V (200 W)

Technical Data

Dimensions (H x B x T)	264 mm x 140 mm x 160 mm

PARTICLE FILTER — PSX3

Part-No.: **32980**

Particle filter for laser - smoke aspiration detector to limit contamination in dirty or dusty environments.

- To be used in difficult ambient conditions to reduce the pollution of the sampling unit.
- Spare filter easily to change (part-no. 32981)
- Suitable for 25 mm- and 3/4"- pipes

Technical Data

Dimensions (H x B x T)	160 mm x 160 mm x 86 mm
Weight	690 g

3-LEVEL FILTER	3-level filter for PSX3
	Part-No.: 32981

Sparepart: 3-level filter foam for part-no. 32980 - particle filter PSX3

Technical Data	
Dimensions (H x B x T)	150 mm x 60 mm x 70 mm
Weight	21 g

SPARE FILTER FOR MICRA	STR Filter Micra
	Part-No.: 31256
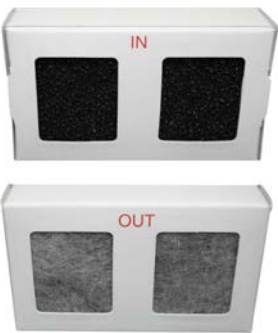
Spare filter for all laser - smoke aspiration detector of the series Micra 25 and 100

SPARE - FILTER FOR HSSD - 2	ELF HSSD-2
	Part-No.: 31255

Spare filter for all laser - smoke aspiration detector of the series HSSD-2

SPARE FILTER FOR HSSD - 1	ELF HSSD-1
	Part-No.: 31253

Spare air filter for units of the series HSSD-1

ABS-PIPE 3M RED — AR
Part-No.: 31133

Halogen free pipe for all air sampling units of the series HSSD-2 und Micra

- Low expansion coefficient at warming by special ABS-version
- High flexibility and ductility
- Resistent against strong mechanical loads
- High resistance against chemical and aggressive environments

Technical Data	
Dimensions (H x D)	3/4" / 3000 mm x 27 mm
Material	ABS, halogen free
Colour	red
Remarks	Accessories: clip clamp (part-no. 31145), special glue (part-no. 31147), ABS-cleaning agent (part-no. 31148)

ABS-ARC 90° RED — B 90
Part-No.: 31136

Arc 90° for halogen free pipe of all air sampling units of the series HSSD-2 and Micra.

- Low expansion coefficient at warming by special ABS-version
- Resistent against strong mechanical loads
- High resistance against chemical and aggressive environments

Technical Data	
Dimensions (H x D)	3/4" / 144 mm x 27 mm
Material	ABS, halogen free
Colour	Red
Remarks	Accessories: special glue (part-no. 31147), ABS-cleaning agent (part-no. 31148)

ABS-ANGLE 45° RED — W45
Part-No.: 31135

Angle 45° for halogen free pipe of all air sampling units of the series HSSD-2 and Micra.

- Low expansion coefficient at warming by special ABS-version
- Resistent against strong mechanical loads
- High resistance against chemical and aggressive environments

Technical Data	
Dimensions (H x D)	3/4" / 62 mm x 27 mm
Material	ABS, halogen free
Colour	red
Remarks	Accessories: special glue (part-no. 31147), ABS-cleaning agent (part-no. 31148)

ABS-CONNECTION SLEEVE 3/4" RED — VM
Part-No.: 31138

Connection sleeve 3/4" for halogen free pipe of all air sampling units of the series HSSD-2 and Micra.

- Low expansion coefficient at warming by special ABS-version
- Resistent against strong mechanical loads
- High resistance against chemical and aggressive environments

Technical Data	
Dimensions (H x D)	3/4" / 41 mm x 27 mm
Material	ABS, halogen free
Colour	Red
Remarks	Accessories: special glue (part-no. 31147), ABS-cleaning agent (part-no. 31148)

ABS-T-BRANCH 3/4" RED TA

Part-No.: 31140

T-branch 3/4" for halogen free pipe of all air sampling units of the series HSSD-2 and Micra.

• Low expansion coefficient at warming by special ABS-version
• Resistent against strong mechanical loads
• High resistance against chemical and aggressive environments

Technical Data	
Dimensions (H x D)	3/4" / 65 mm x 50 mm x 27 mm
Material	ABS, halogen free
Colour	Red
Remarks	Accessories: special glue (part-no. 31147), ABS-cleaning agent (part-no. 31148)

ABS-END CAP RED EK

Part-No.: 31143

End cap for halogen free pipe of all air sampling units of the series HSSD-2 and Micra.

• Low expansion coefficient at warming by special ABS-version
• Resistent against strong mechanical loads
• High resistance against chemical and aggressive environments

Technical Data	
Dimensions (H x D)	3/4" / 27 mm x 30 mm
Material	ABS, halogen free
Colour	Red
Remarks	Accessories: special glue (part-no. 31147), ABS-cleaning agent (part-no. 31148)

ABS-GLAND RED RA VG

Part-No.: 31141

Gland for halogen free pipe of all air sampling units of the series HSSD-2 and Micra.

• Low expansion coefficient at warming by special ABS-version
• Resistent against strong mechanical loads
• High resistance against chemical and aggressive environments

Technical Data	
Dimensions (H x D)	3/4" / 53 mm x 27 mm
Material	ABS, halogen free
Colour	Red
Remarks	Accessories: special glue (part-no. 31147), ABS-cleaning agent (part-no. 31148)

REDUCTION ADAPTER RA

Part-No.: 31950

Reduction adapter for halogen free pipe of all air sampling units of the series HSSD-2 and Micra.

• Low expansion coefficient at warming by special ABS-version
• Resistent against strong mechanical loads
• High resistance against chemical and aggressive environments

Technical Data	
Dimensions (H x D)	3/4" / 40 mm x 25 mm
Material	ABS, halogen free
Colour	Red
Remarks	Accessories: special glue (part-no. 31147), ABS-cleaning agent (part-no. 31148)

STRATOS REDUCING ADAPTER 25 — STR 25
Part-No.: 31948

Stratos ABS-reducing adapter (D): 3/4" x 25 mm

Technical Data

Material	ABS, halogen free
Colour	red

ABS-CLIP CLAMP RED — BC
Part-No.: 31145

Clip clamp to fix halogen free pipe of all air sampling units of the series HSSD-2 and Micra.

• Enables the easy fixing of pipe on various surfaces
• Low expansion coefficient at warming by special ABS-version
• Resistent against strong mechanical loads
• High resistance against chemical and aggressive environments

Technical Data

Dimensions (H x B x T)	55 mm x 45 mm x 20 mm
Material	ABS, halogen free
Colour	Red
Remarks	Accessories: suspension 60 mm (part-no. 31146), Flange nut (part-no. 31960)

STRATOS REDUCING ADAPTER 25 ABS — STR R25
Part-No.: 31949

STRATOS ABS-reducing adapter (D): 25 mm x 3/4"

Technical Data

Material	ABS, halogen free
Colour	red

SUSPENSION WITH CLIP CLAMP — AB
Part-No.: 31146

Suspension for assembly with a distance of halogen free pipe of all air sampling units of the series HSSD-2 and Micra. To be used at high ceiling or uneven surfaces.

• Enables the evening out of different surfaces and a suspended mounting of the pipe

Technical Data

Material	steel
Colour	steel
Remarks	Accessories: flange nut (part-no. 31960)

FLANGE NUT FOR CLIP CLAMP — FM

Part-No.: **31960**

Flange nut for the assembly of a clip onto the suspension.

- Enables the direct fixing of the ABS-clip onto the suspension

Technical Data	
Dimensions (H x B x T)	20 mm x 10 mm x 2 mm
Material	steel
Colour	Grey

ABS-END-CAP ADAPTER WITH CAPILLARY CONNECTION — EKA

Part-No.: **31154**

End-adapter for the connection of capillary to halogen free pipe of all air sampling units of the series HSSD-2 and Micra.

- End adapter to connect capillary 10mm
- Low expansion coefficient at warming by special ABS-version
- Resistent against strong mechanical loads
- High resistance against chemical and aggressive environments

Technical Data	
Dimensions (H x D)	3/4" / 55 mm x 27 mm
Material	ABS, halogen free
Colour	Red, black
Remarks	Accessories: special glue (part-no. 31147), ABS-cleaning agent (part-no. 31148)

ABS-ADAPTER WITH CAPILLARY CONNECTION — TKA

Part-No.: **31153**

Adapter for the connection of capillary to halogen free pipe of all air sampling units of the series HSSD-2 and Micra.

- T-adapter with connection to capillary 10 mm
- Low expansion coefficient at warming by special ABS-version
- Resistent against strong mechanical loads
- High resistance against chemical and aggressive environments

Technical Data	
Material	ABS, halogen free
Colour	Red, black
Remarks	Accessories: special glue (part-no. 31147), ABS-cleaning agent (part-no. 31148)

CAPILLARY RED — KR

Part-No.: **31151**

Capillary for the remote use of a sampling hole on halogen free pipe of all air sampling units of the series HSSD-2 and Micra. Via the capillary the sampling holes can be remotely placed up to 8 m.

- High flexibility and ductility
- High resistance against chemical and aggressive environments

CAPILLARY WHITE	SK	KW
		Part-No.: 31152

Capillary for the remote use of a sampling hole on halogen free pipe of all air sampling units of the series HSSD-2 and Micra. Via the capillary the sampling holes can be remotely placed up to 8 m.

• High flexibility and ductility
• High resistance against chemical and aggressive environments

PLUG IN CAPILLARY	SK
	Part-No.: 31590

Plug in End-adapter for the connection of capillary to halogen free pipe of all air sampling units of the series HSSD-2 and Micra.

• Plug in end cap with connection option for 10 mm capillary

Technical Data	
Dimensions (H x D)	10 mm x 20 mm
Material	ABS, halogen free
Colour	White
Remarks	Accessories: special glue (part-no. 31147), ABS-cleaning agent (part-no. 31148)

STR SK	STR SK
	Part-No.: 31613

Stratos Steck-Kapillar

3-WAY-BALL VALVE 25 MM	KH
	Part-No.: 32982

3-way ball valve ABS, d=25mm with T-bore.

• Ball position imprinted in lever
• Integrated fixing system with mounted threaded bushes
• Lever with integrated tool for adjustment

FLAT SCREW CAPILLARY   FSK

Part-No.: **32983**

Flat screw capillary with flange for capillary

CAPILLARY CLAMP   KK

Part-No.: **31155**

End-adapter with clamp flange to end a capillary on halogen free pipe of all air sampling units of the series HSSD-2 and Micra.

· End adapter with clamp and possibility to connect capillary 10 mm

Technical Data	
Dimensions (H x D)	73 mm x 33 mm
Material	ABS, halogen free
Colour	White
Remarks	Accessories: special glue (part-no. 31147), ABS-cleaning agent (part-no. 31148)

CAPILLARY FLANGE   FK

Part-No.: **31156**

End-adapter with connection flange to end a capillary on halogen free pipe of all air sampling units of the series HSSD-2 and Micra.

· End adapter with flange and connection possibility for capillary 10 mm

Technical Data	
Dimensions (H x D)	40 mm x 65 mm
Material	ABS, halogen free
Colour	White
Remarks	Accessories: special glue (part-no. 31147), ABS-cleaning agent (part-no. 31148)

WARNING STICKER FOR SAMPLING HOLES   WA

Part-No.: **31149**

Warning sticker to indicate sampling holes halogen free pipe of all air sampling units of the series HSSD-2 and Micra.

· Packaging unit 100 pieces

SMOKE PEN	RS
	Part-No.: 32334

Smoke pen to test the function of all air sampling units of the series HSSD-2 and Micra.

• 6 insets included

EXPLOSION HAZARD
AREA

CONVENTIONAL INFRARED FLAME DETECTOR - EX VERSION — VIREX + SVEX

Part-No.: 40307

Conventional Infrared Flame Detector Ex version

- ATEX II 1G Eex ia IIC T6, EN54-10
- CE according to CPD/CPR + base SVEX

MOUNTING BASE - EX VERSION — S05EX

Part-No.: 40236

Moutning Base - Anti-static design Ex version

- ATEX II 1G Eex ia IIC T6, EN54-10
- CE according to CPD/CPR + base SVEX

CONVENTIONAL OPTICAL SMOKE DETECTOR - EX VERSION — OC05EX

Part-No.: 40202

Conventional Optical Smoke Detector Ex version

- ATEX II 1G Eex ia IIC T6, EN54-7
- CE according to CPD/CPR

CONVENTIONAL MANUAL CALL POINT - EX VERSION — DMCL05EX

Part-No.: 40094

TDMC05EX (front MCP) + FBBG2EX-R (Back box MCP), Conventional Manual Call Point with reset key Ex version

- Certified ATEX 94/9/CE, CE certified
- EN60079-0, EN60079-11

CONVENTIONAL RATE OF RISE + FIXED HEAT DETECTOR - EX VERSION — TRC05EX

Part-No.: 40292

Conventional Rate Of Rise + Fixed Heat Detector Ex version

- ATEX II 1G Eex ia IIC T6, EN54-5
- CE according to CPD/CPR

INTRINSICALLY SAFE SOUNDER — ISMA1

Part-No.: 40573

TDMC05EX (front MCP) + FBBG2EX-R (Back box MCP), Conventional Manual Call Point with reset key Ex version

- Certified ATEX 94/9/CE, CE certified
- EN60079-0, EN60079-11

SAFETY BARRIER FOR EX DETECTORS AND CALL POINTS — SBEX BZ1

Part-No.: 40247

Safety Barrier dedicated for intrisically safe detectors and call points

SAFETY BARRIER FOR EX DETECTORS AND CALL POINTS, OPTO ISOLATED — SBEX BZ2

Part-No.: 40248

Safety Barrier dedicated for intrisically safe detectors and call points. To be supplied when the ex detectors are not connected to SD3 panels.

SAFETY BARRIER FOR INTRINSICALLY SAFE SOUNDERS — SBEX BZ3

Part-No.: 40249

Safety Barrier dedicated exclusively for intrisically safe sounders.

EXPLOSION PROOF BEAM DETECTOR 30M — DLFB30-R-EX

Part-No.: 40087

Explsion Proof Beam Detector for linear smoke detection, supplied with reflector for distance from 3 up to 30 meters, NO-NC ALARM, NO-NC FAULT, integrated laser pointer for alignment.

• EN54-12
• CE according to CPD/CPR
• Ex II 2 G Ex d IIC T6
• ii 2 D Ex td A21 IP66 T85°C

CONVENTIONAL INFRARED FLAME DETECTOR	iRY2 + S95
	Part-No.: 40087

Conventional Infrared Flame Detector, 1 remot led output, vision cone + 45°, distance max 25m, base included.

Technical Data	
Supply Voltage	15 V DC to 28 V DC
Quiescent current	515 µA
Alarm current	32 mA
Sensor type	2 x IR
Type of protection	IP 20
Operating temperature	-10°C to +55°C
Storage temperature	+10°C to +55°C
Humidity	≤ 95 %
Dimensions (H x D)	H : 41 mm D : 104 mm
Weight	125 g
Material	ABS
Colour	White
Standard	EN54-10 class 1 and 2 CE according to CPD/CPR, base included

FLAME DETECTOR WITH IP65 ENCLOSURE	IRY2 - IP65
	Part-No.: 40166

Conventional Infrared Flame Detector, 1 remote led output, vision cone + 45°, distance max 25m

• IP65 box, dim 225x175x80
• CE according to CPD/CPR

UV FLAME DETECTOR	UV-185/5CZ
	Part-No.: 40786

UV Flame detector designed for optimal performance of Flame detection in ATEX zone 2/22. Conventional, relays and 4-20 mA Outputs included. Automatic & manual sensor test. Good resistance against the influences of sun light, electric discharges of radiations.

Technical Data	
Supply Voltage	10 - 28 Vdc
Quiscent Current	25 mA
Alarm Current	35 mA
Protection class	IP 65
Operating temperature	-40°C to +70°C
Dimensions (H x B x T)	125mm x 80 mm x 57 mm
Weight	750 g
Material	GRP
Standards	EN 54-10 / FM3260
ATEX approval	DEKRA 13 ATEX 0077 X II 3GD
Remarks	Accessories : part-No : 40648 swivel mount

UV/IR FLAME DETECTOR

UV/IR-210/1CZ
Part No.:

IR3 FLAME DETECTOR

IR-109/1CZ
Part No.: 40647

SWIVEL MOUNT FOR FLAME DETECTOR — SM21

Part-No.: 40648

Swivel mount made of PA66, suitable for outdoor and ATEX zone 2/22 applications

TEST LAMP, NON EX. — TC-16/1

Part-No.:

Test lamp with rechargeable battery, incl. charger and carrying case, non EX

TEST LAMP, ATEX CERTIFIED — TC-940/1Z

Part-No.: 40649

Test lamp, carrying case. Intrisically safe, IECEX / ATEX CERTIFIED

GAS DETECTION
SYSTEM

WALL MOUNTING PROGRAMMABLE CONTROL PANEL 2 CHANNELS — CM-20

Part-No.:

Wall mounting control panel - 2 x 4-20 mA with two configurable Alarm thresholds programmable with the front buttons.
Compatible with toxic, oxygen and Flammable gas detector

Technical Data

Supply Voltage	220 Vac or 24 Vdc
Consumption	2 Watts
Analogue input	4-20 mA x 2 (3 wires)
Output	4 relays SPDT
Display	2 x 20 characters LCD Display
Protection class	IP65
Operating temperature	-20 to 70°C
Humidity	max. 90%
Dimensions (H x B x T)	240 mm x 190 mm x 120 mm
Weight	1600 g
Standards	Comply with EMC EN61000-4

WALL MOUNTING PROGRAMMABLE CONTROL PANEL 8 CHANNELS — CM-80T4-B

Part-No.: 40702

Wall mounting control panel 8 x 4-20mA inputs. Supplied already installed into a 10" metal cabinet completed of thermo regulated cooling fan, power supply 250W.
Three configurable alarm thresholds programmable with the front buttons. Event Log with reset under password.
Compatible with toxic, oxygen and Flammable gas detector

Technical Data

Supply Voltage	195-253 Vac
Consumption	1,7 A @ 230 Vac
Analogue input	4-20 mA x 8 (3 wires)
Output	6 relays SPDT
Display	2 x 20 characters LCD Display
Protection class	IP20
Operating temperature	-20 to 70°C
Humidity	max. 90%
Dimensions (H x B x T)	360 mm x 260 mm x 390 mm
Weight	2 Kg
Standards	Comply with IEC 61508 - SIL1

CONVENTIONAL METHANE CATALYTIC GAS DETECTOR, CH4 WITH 4/20MA OUTPUT — GD100C

Part-No.: 40391

Conventional Methane Catalytic Gas Detector, CH4, IP55, can be directly connected on ALPHA panel, alarm and prealarm resistors integrated, needs external power supply with possibility to use 4/20mA output.

CONVENTIONAL BUTHANE CATALYTIC GAS DETECTOR WITH 4/20MA OUTPUT — GD101C

Part-No.: 40124

Conventional Buthane Catalytic Gas Detector, IP55, can be directly connected on ALPHA panel, alarm and prealarm resistors integrated, needs external power supply, with possibility to use 4/20mA output.

CONVENTIONAL PETROL STEAM CATALYTIC GAS DETECTOR WITH 4/20MA OUTPUT — GD102C

Part-No.: 40393

Conventional Petrol Steam Catalytic Gas Detector, IP55, can be directly connected on Alpha panel, alarm and prealarm resistors integrated, needs external power supply, with possibility to use 4/20mA output.

CONVENTIONAL HYDROGEN CATALYTIC GAS DETECTOR WITH 4/20MA OUTPUT — GD104C

Part-No.: 40394

Conventional Hydrogen Catalytic Gas Detector, H2, IP55, can be directly connected on ALPHA panel, alarm and prealarm resistors integrated, needs external power supply with possibility to use 4/20mA output.

CONVENTIONAL LPG CATALYTIC GAS DETECTOR WITH 4/20 MA OUTPUT — GD105C

Part-No.: 40395

Conventional Catalytic Liquid Petroleur Gas Detector, LPG, IP55, can be directly connected on ALPHA panel, alarm and prealarm resistors integrated, needs external power supply with possibility to use 4/20mA output.

CONVENTIONAL PROPANE CATALYTIC GAS DETECTOR, CH4 WITH 4/20MA OUTPUT — GD106C

Part-No.: 40132

Conventional Propane Catalytic Gas Detector, C3H8, IP55, can be directly connected on ALPHA panel, alarm and prealarm resistors integrated, needs external power supply with possibility to use 4/20mA output.

CONVENTIONAL CARBON MONOXIDE GAS DETECTOR WITH 4/20MA OUTPUT — GD113C

Part-No.: 40397

Conventional Carbon Monoxide Gas Detector, CO, IP55, ELECTROCHEMICAL can be directly connected on ALPHA panel, alarm and prealarm resistors integrated, needs external power supply with possibility to use 4/20mA output.

PETROL STREAM GAST TEST BOTTLE — VPGAS

Part-No.: 40311

Petrol Steam Gas Test Bottle, 40% L.I.E., 12 liters (to be used with P7150V)

METHANE GAS TEST BOTTLE — MEGAS

Part-No.: 40188

Methane gas Test Bottle, 40% L.I.E, 12 liters (to be used with P7150V)

LPG GAS TEST BOTTLE — LPGGAS

Part-No.: 40174

LPG Gas Test Bottle, 40% L.I.E., 12 liters (to be used with P7150V)

CARBON MONOXIDE GAS TEST BOTTLE — COGAS

Part-No.: 40071

Carbon Monoxide Gas Test Bottle, 250ppm, 12 liters (to be used with P7150V)

HYDROGEN GAS TEST BOTTLE — HYGAS

Part-No.: 40153

Hydrogen Gas Test Bottle, 48% L.I.E., 12 liters (to be used with P7150V)

PLUG-IN 3 RELAY CARD — GDREL

Part-No.: 40399

Plug-in 3 Relay Card, NO-NC 30V/1A, to be plugged inside the detector GDxxxC, permits to repaeat alarm, prealarm, fault of the detector

PROGRAMMING TOOL FOR BEAM AND GAS DETECTORS — DETTEL

Part-No.: 40366

Programming tool with Display And Keypad for Beam and Gas Detectors, permits to read and set the level and data of detectors (sensitivity, thresholds...)

TEST KIT FOR GAS DETECTORS (VALVE + ADAPTER) — P7150V

Part-No.: 40206

Test Kit for Gas Detectors (valve + adapter)

EXPLOSION PROOF GAS DETECTOR ATEX ZONE 2 — RAS/AD/xxx/AAS

Explosion proof gas detector with integrated RS485 MODBUS & 4-20 mA. Ideal to detect flammable, toxic gases and oxygen. Sensors with strong poison resistant properties. Small size and low consumption. Robust construction.
Also available on demand with relays output and integrated display.

Technical Data	
Supply Voltage	12-30 Vdc
Consumption	1 W
Output	4-20 mA
Protection class	IP65
Operating temperature	-20 to 70°C
Humidity	max. 90 %
Dimensions (H x B x T)	170 mm x 100 mm x 70 mm
Weight	800 g
Standards	ATEX II 2G Ex d IIC T6 Gb-IP65

ELECTROCHEMICAL CELL - AMMONIA (NH3), 0-100 /0-500 /0-1000 /0-5000 PPM — RAS/AD/340/AAS

Part-No.:

ELECTROCHEMICAL CELL - CARBON MONOXIDE (CO) 0-300 /0-500 PPM — RAS/AD/320/AAS

Part-No.:

ELECTROCHEMICAL CELL - HYDROGEN SULPHIDE (H2S), 0-50 /0-100 PPM — RAS/AD/369/AAS

Part-No.:

ELECTROCHEMICAL CELL - OXYGEN (O2), 0-25%V/V — RAS/AD/361/AAS

Part-No.: 40762

ELECTROCHEMICAL CELL, SULPHURE DIOXIDE (SO2), 0-20 PPM — RAS/AD/370/AAS

Part-No.:

CATALYTIC SENSOR - METHANE (CH4), 0-100% L.E.L.	RAS/AD/101/AAS
	Part-No.: 40593

CATALYTIC SENSOR - L.P.G. (MIX), 0-100% L.E.L.	RAS/AD/102/AAS
	Part-No.: 40746

CATALYTIC SENSOR - PROPANE (C3H8), 0-100% L.E.L.	RAS/AD/104/AAS
	Part-No.:

CATALYTIC SENSOR - HYDROGEN (H2), 0-100% L.E.L.	RAS/AD/127/AAS
	Part-No.: 40750

CATALYTIC SENSOR - AMMONIA (NH3), 0-100% L.E.L.	RAS/AD/140/AAS
	Part-No.:

CATALYTIC SENSOR - AMMONIA (NH3), 0-20000 PPM	RAS/AD/141S/AAS
	Part-No.:

IR INFRARED - METHANE (CH4), 0-100% L.E.L.	RAS/AD/201/AAS
	Part-No.: 40594

IR INFRARED -PROPANE (C3H8), 0-100% L.E.L.	RAS/AD/204/AAS
	Part-No.:

IR INFRARED - CARBON DIOXIDE (CO2), 0-20000 PPM (0-2%V/V UP TO 0-100%V/V)	RAS/AD/279/AAS
	Part-No.:

PID PHOTO IONIZATION - VOCS, 0-400 PPM	RAS/AD/571/AAS
	Part-No.:

MOUNTING BRACKET FOR RAS SERIES GAS DETECTORS	GDA-M/KF6
	Part-No.:
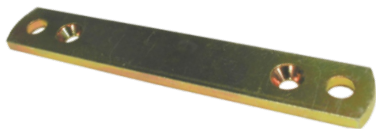
Mounting bracket for RAS series gas detectors

ATEX CERTIFIED CABLE GLAND, 3/4" NPT - NON ARMORED CABLES	GDA-CH34-NA
	Part-No.:

Atex certified cable gland, 3/4" NPT - Non Armored cables

TEST AND CALIBRATION ADAPTOR FOR GM2 HEADS (RAS SERIES GAS DETECTORS)	GDA-FA-2
	Part-No.: 40654

Test and Calibration adaptor for GM2 heads (RAS series gas detectors)

COLLECTOR CONE FOR LIGHT GASES RAS SERIES
GDA-CO-2

Part-No.:

Collector cone for light gases RAS series

MAGNET FOR NON INTRUSIVE CALIBRATION FOR GM2 HEADS (RAS SERIES GAS)
GDA-MAG-2

Part-No.: 40652

Magnet for non intrusive calibration for GM2 heads (RAS series gas)

SOFTWARE FOR CONFIGURATION AND MAINTENANCE OF GAS DETECTORS
eNoseBlu2

Part-No.: 40706

Software for configuration and maintenance of gas detectors

TESTING ACCESSORIES
HOME DETECTORS

TESTING DEVICE SMOKE/HEAT — Testfire 1001-101

Part-No.: 32335

Cable free testing set for smoke and heat detectors

- 1 cable free combi test head 1000-01
- 1 testing capsule TS3-001 smoke capsule
- 2 battery bars Solo 760
- 1 fast recharger tool

Technical Data

CE-CPD-Number	0786-CPD-20457

TESTING DEVICE SMOKE/HEAT — Testfire 6001 001 6 Meter

Part-No.: 32389

Cable free testing device with multiple release for smoke and heat detectors

- 1 cable free combi test head 1000-01
- 1 testing capsule TS3-001 smoke capsule
- 2 battery bars Solo 760
- 1 fast recharger tool Solo 725
- 1 glas fiber telescope bar, length extension up to 4,5m Solo 100
- 1 deinstallation and check tool Solo 200
- 1 transport bag Solo 610

Technical Data

CE-CPD-Number	0786-CPD-20457

TESTING DEVICES SMOKE/HEAT/CO — Testfire 2001-101

Part-No.: 32336

Cable free testing set for smoke, heat and CO detectors

- 1 cable free combi test head 2000-01
- 1 testing capsule TS3-001 smoke capsule
- 2 battery bars Solo 760
- 1 fast recharger tool
- 1 testing capsule TS3-001 CO capsule

Technical Data

CE-CPD-Number	0786-CPD-20457

TESTING DEVICE SMOKE/HEAT/CO — Testfire 6201 001 6 Meter

Part-No.: 32388

Cable free testing device with multiple release for smoke, heat and CO detectors

- 1 cable free combi test head 2000-01
- 1 testing capsule TS3-001 smoke capsule
- 2 battery bars Solo 760
- 1 fast recharger tool Solo 725
- 1 testing capsule TC3-001 CO capsule
- 1 glas fiber telescope bar, length extension up to 4,5 m, Solo 100
- 1 deinstallation and check tool Solo 200
- 1 transport bag Solo 610

Technical Data

CE-CPD-Number	0786-CPD-20457

SPARE SMOKE CAPSULE — Testfire TS3-001

Part-No.: 32337

Box with 6 capsules to test smoke detectors

- Generates its non toxic smoke stimulus from a specially formulated fluid
- Replaceable non pressurised capsule
- Up to 1.000 tests, dictated by the response time of the detectors

Technical Data

CE-CPD-Number	0786-CPD-20457
Remarks	Packaging unit 6 pcs

TEST EQUIPMENT SET FOR SMOKE DETECTORS — SOLO 812

Part-No.: 31956

Test- and change set for all smoke detectors.

- 1 glas fiber telescope extension bar, length 4,50 m
- 2 glas fiber extension bar, length 1,13 m
- 1 picking tool for detectors
- 1 detector testing head with test aerosol
- 1 storage bag

SPARE CO CAPSULE — Testfire TC3-001

Part-No.: 32338

Box with 6 capsules to test CO detectors

- CO is generated on demand from activated carbon
- Carbon is supplied in capsule form with no pressure
- Up to 150 tests, dictated by the response time of the detectors

Technical Data

CE-CPD-Number	0786-CPD-20457
Remarks	Packaging unit 6 pcs

TESTING EQUIPMENT FOR SMOKE DETECTORS — SOLO 830

Part-No.: 14008

Detector testing head for application of detectors with testaerosol

- Clear test head for visual checking of the detector's LED during the test process
- Spring mechanism for dosed use of testing aerosol
- Pressure sensitive testing head for elastic surfaces

TESTING EQUIPMENT FOR HEAT DETECTORS	SOLO 461
	Part-No.: 30398

Cable free testing equipment for all heat detectors.

- 1 cable free heat testing head
- 2 battery bars Solo 760-001
- 1 fast recharger tool

TELESCOPE EXTENSION 4,5 M	SOLO 100
	Part-No.: 14006

Glass fiber telescope extension

- 1 glas fiber telescope extension bar, max. length 4,50 m

DETECTOR PICKING TOOL	SOLO 200
	Part-No.: 14007

Picking tool to detach and change detectors.

EXTENSION OF TELESCOPIC BAR	SOLO 200
	Part-No.: 30193

Extension for the telescopic bar by 1,13 m

- Maximum of 2 units usable per bar

TRANSPORTATION BAG	SOLO 610
	Part-No.: 14010

Carrying Bag for carrying Head Units, Battery Batons, Battery Charger and Aerosol Cans

Technical Data

Dimensions (H x B x T)	460 mm x 45 mm x 180 mm

ELECTROMAGNETIC DOOR RELEASE UNIT	VTR0241210
	Part-No.: 40312

Electromagnetic Door release unit in metal case

• 50daN 24V

TEST AEROSOL 250 ML	TA 250
	Part-No.: 31845

Flammable test aerosol for ionisation - and optical smoke detectors.

• 250 ml bottle
• At inflammation carbon oxids will be generated
• Residue development : clear, not greasing, quickly evaporating
• Pressure: 20°C ~ 6 bar (~ 87 psig), 50°C ~ 11 bar (~ 159 psig)
• Density at 20°C: 1,02 g/ml (63,67 lb/ft3)
• Flash point: 12°C
• Steam density > 1 (air = 1)
• Partly solvable in water
• Ambient temperature: 0° to +40°
• Not flammable / not self inflammable

Technical Data

Remarks	Avoid extreme heat, direct sunlight, strong oxidants, strong acids and bases, alkali metals

FLOOR SUPPORT FOR MAGNET	V7RSSOL
	Part-No.: 40304

Floor support for magnet VTR0241210 (option)

DOMESTIC PHOTOELECTRIX SMOKE ALARM DETECTOR - 5 YEARS BATTERY — DOF49-5

Part-No.: 40312

Domestic Photoelectric Smoke Alarm Detector with 9V battery, 5 years life duration, 6 years warranty, CE EN14604 according to CPD (Exists with lithium battery, 9Vdc, 10 years life duration)

PLUG IN CARD WITH NO CONTACT — DAAF-REL

Part-No.: 40077

Plug In Card with NO contact, permits to repeat the state of alarm (for intrusion panels)

DOMESTIC PHOTOELECTRIX SMOKE ALARM DETECTOR - 5 YEARS BATTERY — VESTA

Part-No.: 40469

Domestic Photoelectric Smoke Alarm Detector with 9V battery, 5 years life duration, 6 years warranty, CE EN14604 according to CPD (Exists with lithium battery, 9Vdc, 10 years life duration). Dedicated for wireless application (wireless module not included)

Technical Data

STANDALONE CO DETECTOR — DAAC010

Part-No.: 40076

Stand alone Carbon Monoxide (CO) gas detector with electrochemical sensor, embedded buzzer. Supplied with 5 years life durqtion bqttery. CE CPD EN50291 conform.

GTC& RMA
TERMS AND CONDITIONS

General Terms and Conditions of Sales

§ 1 General – Controlling Provisions

1. No terms and conditions other than our Terms and Conditions of Sales contained herein shall apply unless expressly approved in writ-ing by us. Our Terms and Conditions of Sales shall also apply in the event we make delivery to the customer without objection although aware of the existence of terms and conditions of the customer that differ from our Terms and Conditions of Sale.
2. All agreements made between us and the customer in connection with the execution of this agreement are contained herein in writ-ing. Our employees are not entitled to make verbal commitments which are outside the scope of the written agreement.
3. Our Terms and Conditions of Sales shall apply to transactions with entrepreneurs ("Unternehmer") in the sense of Section 14 German Civil Code, legal entities and public institutions.
4. Our Terms and Conditions of Sale shall also apply to all present and future commercial relations with the customer.

§ 2 Acceptance of Orders

1. Our offers are subject to change. We reserve the right to make insignificant technical changes or insignificant changes in design, colour and/or weight to the customary extent.
2. In the case of orders pursuant to Section 145 German Civil Code (BGB), we may at our option accept such orders within 2 weeks of receipt.
3. Unless specified otherwise in these Terms and Conditions of Sale or in our written confirmation, the INCOTERMS shall apply in the version effective as of the date of this agreement.
4. Delivery is contingent upon correct and timely delivery of neces-sary materials or merchandise to us ("Obtaining supplies oneself clause") insofar as the self-delivery constitutes a covering transac-tion which is congruent with the contract concluded between the customer and ourselves. We will inform the customer without delay in the event of non-availability and promptly refund any payment received.
5. All rights to illustrations, drawings, calculations and other docu-ments shall remain our property. This shall also apply to any writ-ten materials designated as "confidential". The customer shall ob-tain our express approval in writing before making any such mate-rials available to other parties.
6. The customer is obliged to maintain confidentiality in respect of any information provided by us – in whichever form – in the scope of the business relation-ship. He shall not use the information for other than the contractual purposes and shall not make them available to any third party without our prior written consent. As far as we consent that the information is passed on to a third party the customer shall put such third party under an equal obligation of confiden-tiality.
7. The customer shall comply with the applicable data protection laws and regu-lations.

§ 3 Prices – Terms of Payment

1. Unless specified otherwise in our written confirmation, our prices are "ex works" (exw) and exclusive of packing which will be invoiced separately.
2. We reserve the right to modify our prices accordingly in the event of increases in costs, including but not necessarily limited to in-creases due to wage agree-ments or changes in the prices of materials, which lead to a cost increase in relation to the overall product. We will document any such cost increases at the customer's request.
3. If, after consultation between ourselves and the customer, delivery is to be made more than four months from the date of acceptance of the order or later or cannot be made earlier for reasons for which the customer is exclusively re-sponsible, we reserve the right to invoice the price contained in our price lists as of the date of de-livery instead of the original price agreed upon.
4. Our prices are exclusive of applicable value added tax (VAT). Applicable value added tax will be included separately in the in-voice on the billing day.
5. Unless specified otherwise in our written confirmation, the custom-er shall pay the net purchase price (with no deductions) within 10 days of receipt of the invoice, at which time the invoice shall be-come due and payable. Legal remedies shall apply in the case of past due accounts.
6. The customer shall only be entitled to offset any counterclaims if the corre-sponding counterclaims are determined by a non-appealable court decision or are undisputed or recognized by us. This restriction shall not apply to claims of the customer due to de-fects resulting from the same contractual relation-ship as our claim. In addition, the customer may exercise the right to withhold pay-ment only in the case of counterclaims in connection with the same trans-action.

§ 4 Delivery – Delayed Acceptance– Delayed Delivery

7. Delivery dates are subject to timely receipt by us of all documen-tation to be supplied by the customer, required permits and ap-provals, including but not necessarily limited to plans and are also subject to performance of other obli-gations by the customer. If these conditions are not fulfilled in due time, deli-very shall be delayed until all of these conditions have been fulfilled. This shall not apply in the event of delays for which we are responsible.
8. Our obligation to make delivery is contingent upon timely and proper perfor-mance of the customer's obligations. We reserve the right at our option to con-sider failure to perform (Section 320 Ger-man Civil Code - BGB and impairment of performance (Section 321 German Civil Code - BGB) as events of default.
9. We may make partial delivery if no undue convenience is caused to the cus-tomer.
10. In the event delivery or shipment is delayed by the customer by more than one month from the date of announcement to the effect that the merchandise is ready for delivery or shipment, we may in-voice the customer for storage char-ges in the amount of 0.5% of the contractual price of the respective merchan-dise per month or any fraction thereof, in which case such charges may not exceed a total of 5%. The parties to the agreement may claim higher or low-er storage costs if any difference can be documented.
11. In the event the customer delays acceptance or fails to perform other obli-gations, we may at our option claim reimbursement for any related damages sustained by us, including but not necessarily limited to reimbursement for ad-ditional expenses, without prejudice to further claims.
12. In the event of a situation pursuant to Section 5 above, risk of loss or damage shall pass to the customer upon the occurrence of any such delay or default on the part of the latter.
13. All acts of God (e.g. mobilization, war, insurrection, strikes, lawful lockout or similar events) which are beyond our control and which prevent us from ful-filling our contractual duties, justify that we may postpone delivery dates for the duration of the hindrance. We will immediately inform the customer of the fact that a hindrance has occurred and of its expected duration. In the event

the duration of such an occurrence exceeds a period of three months, we may cancel the agreement.

14. In the event delivery is delayed by us, our liability is limited to that prescribed by law if the underlying purchase agreement specifies a firm delivery date in the sense of Section 286 (2) 4 German Civil Code (BGB) or Section 376 German Commercial Code (HGB) pertaining to non-fulfilment. We are also liable as prescribed by law in the sense that the customer may claim that it is no longer interested in further performance due to a delay in delivery caused by us.

15. In the event of a delivery delay, we are liable for the compensation for damages in addition to performance (damage incurred due to a delay) for each full week of default in the form of a lump-sum de-fault compensation of 0.5% of the contract price, but no more than a maximum of 5% of the contract price. In the event of a delivery delay, we are liable for the damages in place of performance up to an amount of 25% of the contract price of the goods that were de-livered with delay.

§ 5 Cancellation

16. The customer may cancel the agreement as allowed by law only in the event of culpable default by us. However, in the case of defects (Section 7 below), legal remedies shall apply.

17. The customer shall in the event of default by us inform us within a reasonable period after being asked to do so by us whether he in-tends to cancel the agreement due to the event of the default or whether he insists upon delivery.

§ 6 Transfer of Risk of Loss or Damage

1. Unless specified otherwise in our written confirmation, our prices are understood to be "ex works" (exw).

2. We reserve the right to ship merchandise from locations other than the place of delivery. At the request of the customer, we will have the merchandise insured during transport, in which case the cus-tomer shall bear the corresponding costs.

§ 7 Claims of defects

3. Claims for defects may not be made for damage incurred after risk of loss or damage passes to the customer, excessive use, unsuita-ble operating consumables, improper site preparation or unusual external factors not provided for in the agreement. In the event of improper modifications or maintenance by the customer, we can assume no responsibility for such modifications or maintenance or the ramifications thereof.

4. The customer's rights in the case of a defect are dependent upon proper inspection and notification in compliance with Section 377 German Commercial Code (HGB). Notification of defects must be made in writing. The customer shall bear the burden of proof in connection with all such claims, including but not necessarily lim-ited to proof of the existence of the defect, the time of occurrence of the defect and timely notification of the defect.

5. In the event of notification of a defect, the customer may withhold payment only in a reasonable amount with respect to the extent of the defect. The customer may not refuse to accept delivery in the event of insignificant defects.

6. In the event of a defect, we may at our option repair the defective merchandise or deliver new merchandise free of defects to replace the original merchandise.

7. In the event we do not meet our respective obligation, the repair is unsuccessful or unreasonable, the customer may at its option can-cel the agreement or request a reduction in price. In the event of insignificant breaches, including

but not necessarily limited to neg-ligible defects, the customer may not cancel the agreement. Our li-ability for damages vis-à-vis the customer is based on § 8 (General Liability) of these general terms and conditions of sale.

8. Claims for defects must be reported within 12 months. The cases of sec. 438 para 1 no. 2 and of § 634a para 1 no. 2 of the German Civil Code (BGB) remain unaffected. Our legal liability pursuant to § 8 lit. 1 and 3 of these General Terms and Conditions of Sale and in the case of wilful deceit shall not be affected.

9. The period for reporting claims pursuant to Sections 478 and 479 German Ci-vil Code (BGB) shall not be affected and shall extend for a period of five years from the date of delivery of the defective item. Recourse against us pursuant to Section 478 German Civil Code (recourse of customer) is only possible in the event the cus-tomer has not made any agreement with its customer that goes beyond legal liability for defects.

§ 8 General Liability

1. Insofar as the customer asserts damage claims which are based on wilful intent or gross negligence, including wilful intent or gross negligence of our representatives or performing agents, we are liable pursuant to the statutory regulations. Insofar we are not ac-cused of intentional breach of contract, liability for damages is limited to the foreseeable, typically occurring damage.

2. We are also liable pursuant to the statutory regulations insofar as we culpa-bly breach an essential contractual duty (essential contractual duties are such duties which are necessary to achieve the contract purpose and which the purchaser relied on and was allowed to rely on); however, in this case, liability for damages - subject to intentional breach of duty - is also limited to the fore-seeable, typically occurring damage.

3. Liability for culpable injury to life, the body or health remains unaffected; this also applies to the mandatory liability according to product liability law.

4. Liability for damages other than that provided for above is excluded, regardless of the legal nature of the claim, including but not necessarily limited to claims for damages due to negligence in connection with the acceptance of the order, other breaches of ob-ligations or claims for damages to property pursuant to Section 823 German Civil Code (BGB).

5. The exclusion pursuant to Section 8.4 above also applies in the event the customer claims reimbursement for needlessly incurred expenses instead of damages.

6. Insofar as liability for damages is excluded or limited, this shall also apply to claims for damages against our employees, representatives and agents.

§ 9 Usage of software and firmware – industrial property rights

1. The customer has the non-exclusive right to use the standard software and firmware, with the agreed performance characteris-tics, in an unmodified form and within the agreed devices. The cus-tomer may make a backup copy of the standard software without the need for an expressed agreement.

2. The goods supplied by us are subject to industrial property rights (e.g. patent rights, trademark rights and ownership rights). The customer shall, in the case of applying or using the goods, respect our industrial property rights, as well as the industrial property rights of third parties.

§ 10 Rentention of Title

1. We retain title to the merchandise until all payments from business with the customer are made in full. In the event the customer has an account with us, our reservation of title also applies to any acknowledged outstanding balance, and the same applies in the event a balance is not acknowledged and a "balance is made for cause", for example, in the event of bankruptcy or insolvency by the customer.

2. If the purchaser does not fulfil his contractual duties, we are entitled to with-draw from the contract under the statutory preconditions and request that the goods which are subject to reservation of title be handed over.

3. The customer shall take proper care of the merchandise and shall have the merchandise adequately insured at new value at its own expense against fire damage, flood damage and theft. In the event maintenance and inspections are necessary, the customer shall have such work carried out on a timely basis at its own expense.

4. In the event of attachment or any other such proceeding initiated by third par-ties, the customer shall inform us in writing so that we can take action pursu-ant to Section 771 Code of Civil Procedure (ZPO). In the event any such third party is not in a position to reim-burse us for legal and extralegal expenses resulting from such an action pursuant to Section 771 Code of Civil Procedure (ZPO), the customer shall bear any such expenses.

5. The customer may resell the merchandise in the normal course of its busi-ness. However, the customer shall assign the full invoiced amount (including VAT) due from its customer or other parties from the sale to the outstanding balance due to us; and this condition shall apply whether or not the merchan-dise purchased from us is sold without or after processing. The customer shall remain authorized to collect the amount due after assignment to us. Our right to make collection ourselves remains unaffected. However, we agree to ref-rain from making collection as long as the customer applies the proceeds from the sale to meet its payment obligations toward us, is not in arrears and, in particular, no insolvency pro-ceeds have been opened against the customer and the customer has not suspended payment. In any such event, we may de-mand that the customer make known to us the assigned receivables and the corresponding debtors, provide all information required for collection, make available the corresponding documents and inform the debtors (third parties) of the assignment.

6. The processing or modification by the customer of the merchan-dise is in all cases performed for us. In the event the merchandise is processed with other objects that are not our property, we acquire partial ownership of the object in proportion to the value of the merchandise (total invoice amount, including VAT) as com-pared with that of the other processed objects at the time of the processing. In addition, the same reservation of title that applies for the mer-chandise also applies for the object which results from the processing.

7. In the event the merchandise is inextricably combined with objects that are not our property, we acquire partial ownership of the new object in proportion

to the value of the merchandise (total invoice amount, including VAT) as com-pared with that of the other combined objects at the time they are combined. In the event the combination is such that the property of the customer is to be con-sidered the main product, it is agreed that the customer shall transfer pro-portionate ownership rights to us. The customer shall then hold the resultant sole or partial property for us..

8. The customer shall also assign to us those amounts due from third parties as a result of the attachment of the merchandise to real estate property to secure amounts due to us.

9. In the event the reservation of title or assignment is not effective in the juris-diction in which the object is located, it is agreed that the security correspon-ding to reservation of title or assignment in that jurisdiction shall obtain. If the creation of this security requires actions on the part of the customer, the latter shall at our request take any and all measures required to create and maintain such rights at its own expense

10. We agree to release securities in our favour at the request of the customer in the event the realizable value of sure securities exceeds the value of the secu-red amounts due by more than 10%. We may determine at our own discretion which securities to release.

§ 11 Support and Assistance

1. If, in addition to supplying merchandise, we also provide the customer with support and/or assistance with the installation/start-up of the merchandise, the limitation of liability described in Sec-tions 7 and 8 shall apply accordingly.

2. The customer is solely responsible for the correct installation, dimensioning and positioning of the purchase object for the customer's purposes. Unless ot-herwise agreed in writing, we do not assume any duty to provide consultancy services in this regard. The provision of general information does not consti-tute a consultancy service on our part and does not release the customer from the responsibility pursuant to sentence 1.

§ 12 Venue – Place of Delivery – Governing Law

3. This agreement shall be subject to the exclusive jurisdiction of the courts of our principal place of business in the event the customer is a businessman in the sense of Section 14 German Civil Code (BGB), a legal entity or a public insti-tution. We may, however, file suit against the customer before the courts of the customer's prin-cipal place of business.

4. In the event the customer is a businessman in the sense of Section 14 German Civil Code (BGB), a legal entity or a public institution and nothing is specified to the contrary in our written confirmation, our principal place of business shall be the place of delivery.

5. This agreement shall be governed by the laws of the Federal Republic of Ger-many. Application of the United Nations Convention on Contracts for the Inter-national Sale of Goods (1980) – CISG – is expressly excluded.

6. In the event of differences of opinion arising from these Terms and Conditions of Sale or in the case of doubt, the original German-language version and it alone shall be legal and binding.

Updates you will find at www.detectomat.com
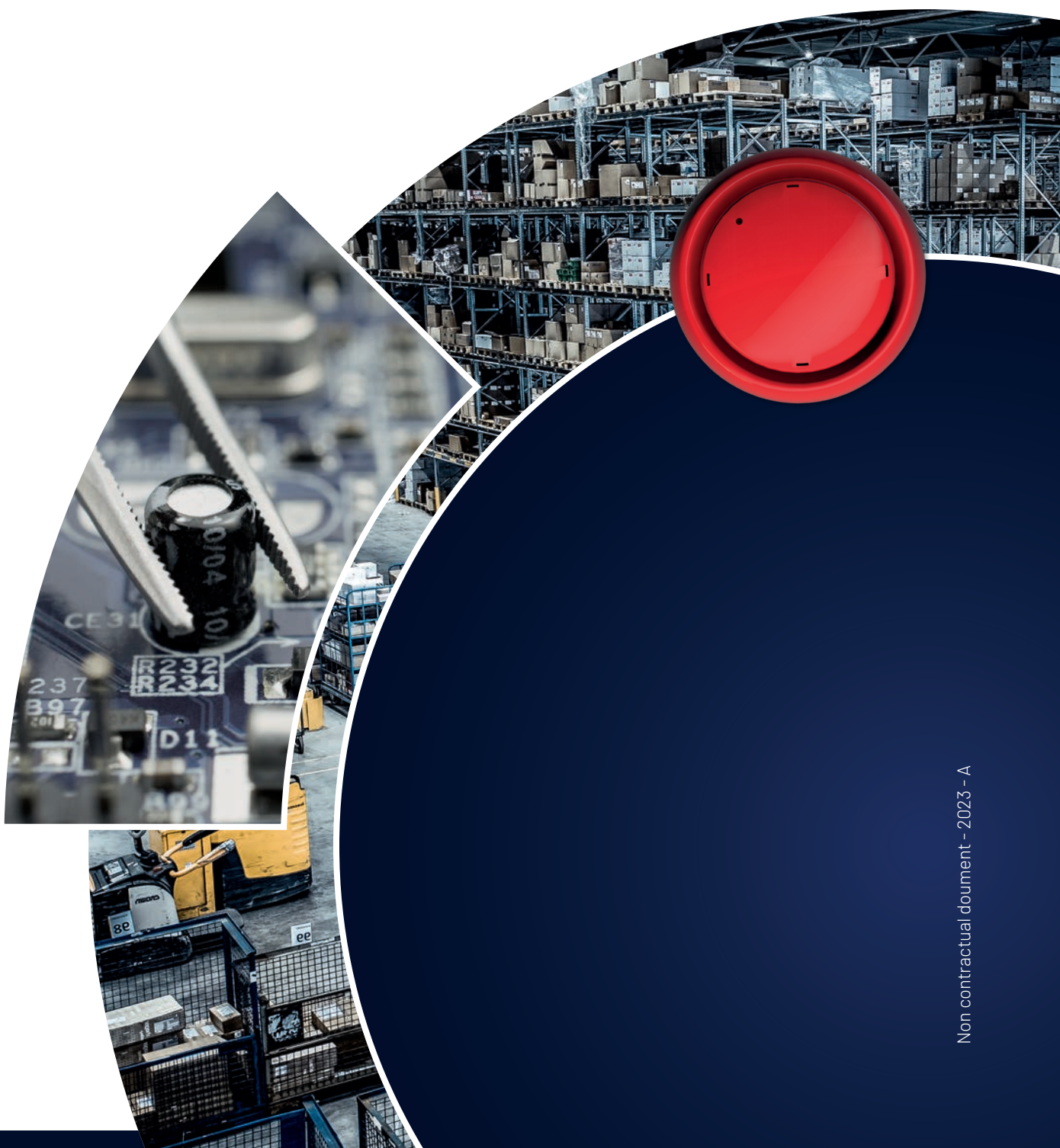**Revised: Ahrensburg, June 2023**

RMA (Return Material Authorization)

1. The general terms and conditions of the Detectomat Systems are valid for the handling of returned RMA deliveries

2. Only material which is not older than five years can be accepted. The serial-number of the item is the proof for the age of item.

3. The return of ordered materials which is not used will only be accepted inoriginal packing and only within 2 months after delivery date. For this material a restocking charge of 20 % of the materials invoice value but max. 300€ in specific cases, will be invoiced. This is also valid for wrong deliveries which are not in the response of Detectomat Systems.

4. To ensure a correct and fast handling, the following details have to be provided with the return:
   • RMA number which is provided by Detectomat Systems for each individual shipment (The RMA number has to be requested to detectomat before the shipment).)
   • Serial number of the product
   • Software version of the product
   • Complete and clear description of the fault

   Only if the above details are complete, then the return can be processed by Detectomat Systems and if necessary a replacement can be sent.

5. Replacement parts will be selected with equivalent software and will be provided by the replacement stock. In this case it can also be a reconditioned and tested product. If an adequate replacement part is not available, a proposal or an appropriate system part will be suggested.

6. A warranty for the function of the system in combination with consequential damages caused by the primary fault and the partly exchange of system components can not be given. In case of a replacement of parts, it is recommended to do a functional test of the system for a complete and correctoperation of the system.

7. Individual assembly groups of panels and accessories and network components can be replaced in advance in case of failure by equivalent products with same software version and same construction (see above) from the replacement stock.The advanced replacement comes with an invoice for the repair costs, freight costs and the replacement material value. After successful repair a credit note for the material value will be issued and the repaired material will be put onto replacement stock (buyback).

8. If the receiving inspection of Detectomat Systems comes to the conclusion that a repair or maintenance of the assembly group or part is not economical, then detectomat can provide a quotation for a replacement shipment.

9. Due to economical reasons there is no cleaning and new calibration of automatic detectors possible. In these cases it is recommended to exchange the devices against new ones

10. It must be pointed out that technical suggestions from our support and exchange recommendations can not be provided with guarantee for success. Also for these recommended exchange the above terms and conditions are valid.

Updates you will find at www.detectomat.com
Revised: Ahrensburg, June 2023