

# Fire alarm systems detect



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# Fire control panel detect 3004<sup>plus</sup> and accessories

The modular fire alarm panel detect 3004plus is the basic version of a broad product portfolio of the system detect 3000.

Up to 20 fire control panels can be configured in a network.

Up to 4 loops with up to 126 devices can be connected per panel which enables system solutions with up to 10.080 addressable loop3000 -components.

A modern configuration and diagnostic tool ensures highest program stabilities and easy operation.

All parameters and selectable options are described with help functions to ensure an easy operation of the detect 3004

## Features at a glance:

- Up to 20 fire control panels in one network
- Redundant version of the fire alarm system for highest reliability
- Optional modules allowing extinguishing control according to EN 12094
- Operation and programming via software tool dpt and diagnostic tool I-Check
- EN 54 conform, easy and clear display of all messages



Fire control panel detect 3004<sup>plus</sup>

VdS approval G 203068

detect 3004plus M DE

Art-Nr.: 32550



Microprocessor controlled modular fire control panel for the use with the loop3000 fire detection system components  
Approved according to EN 54-2 A1 2006, EN 54-4 A1 2002, A2 2006 and VdS for the use according to VdE 0833.

- Large LCD, 160 x 80 points with backlight
- Integrated interface of foreign extinguishing systems using standard interface delete according to VdS
- Monitoring of the power supply and the battery according to EN 54-4 2002 A1/A2 2006 on monitoring card MC 3004
- Complies with EN 61000-6-3 class B for broadcast and is therefore suitable for use in sensitive areas
- Easy menu structure according to EN 54-2 A1 2006
- Integrated one-man-audit mode with clear logging and auditing counter
- Integrated display and control panel according to EN 54-2 A1 2006
- 2 slots for 2 loop - interfaces for the connection of up to 4 loops with a maximum of 126 loop3000 devices per loop and a maximum loop length of up to 3500 m
- Option for 2 conventional interface cards for controlling up to 16 conventional zones
- Extinguishing interface for controlling extinguishing and gas suppression systems in accordance to EN 12094
- Connections for a fire brigade interface for controlling the panels outputs, key deposit and transmission units
- Integrated interface connection for up to 63 additional network components
- Integrated RS 232-interface for the DPT programming software and the connection of printers and other peripheral equipment
- Integrated power supply 72 W according to EN 54 with 1 output for external devices rated at 24V DC/800mA
- 1 external output 24 V/400 mA monitored for sounding/signalling devices
- 3 potential free relays for fire and fault
- 3 inputs for collective signals
- Emergency power supply via 2 batteries 12 V up to 26 Ah
- Integrated ground fault monitoring
- Segmented front door allowing the quick assembly of LED indicator modules and printers
- Option for customised front logos
- Possibility for complete system redundancy with the CPU and loop interfaces
- Up to 128 programmable detector zones
- Additional up to 42 T-branches per loop possible
- Event log memory of up to 500 messages
- Programming of control logics and time dependent functions for the components of series loop3000
- Customized customer texts allowing up to a maximum of 20 characters
- Integrated alarm buffer and 2 detector/zone dependencies
- Time controlled changeovers of sensitivity levels of loop3000 detectors by day/night modes
- Software controlled disablements for zones and individual detectors via external inputs
- Ability to change and edit inspection and reaction times along with all delays
- Programming options for different alarm modes
- Different access levels with password protection
- Visual diagnostics and remote-control operations via the visualization software „Visual detect“
- Commissioning and service tool for analyzing and fault finding functions with „I-check“ software
- Inclusive English language kit for control and programming

### Technical data

Supply voltage	230 V AC (-15%/+10%)
Power supply	24 V DC/72 W/3,5 A
	24 V DC/800 mA
Emergency supply	2 x 12 V/26 Ah
Interfaces	RS-232 Bitbus RS-485 Fire brigade interface
Display	LC-display 160 x 80 points Backlight
Ambient temperature	-5 °C a +40 °C
Outputs	up to 4 loop 140 mA / 3500 m for up to 126 Loop3000 elements each 3 relais outputs 250 V/5 A
Open collector outputs	8 x 30 V DC/90 mA
Inputs	3 inputs for collective signal
Protection class	IP 30
Colour	Light grey (RAL 7035)
Material	Sheet steel

Dimensions (H x W x D)	490 mm x 420 mm x 210 mm
System approval	S295054 and S210001
Weight	12,0 kg without batteries
Standards	EN 54-2: 1997 A1:2006 EN 54-4: 1997 A1:2002 A2:2006
VdS approval	G 203068
CE-CPD number	0786-CPD-20817
Further approvals	EN 12094 - for 1 area extinguishing systems International approvals on request

### Generale remarks

Scope of delivery without loop cards, network interfaces and batteries  
Utilization of integrated standard extinguishing interface requires 1 optional LED indicator module in the front to ensure the indication according to EN 54-2

### Primary 2 A synchronized mains adapter

**2402STE**

VdS approval G 209142

Art-Nr.: 32579



Universal primary synchronized mains adapter for the use as an emergency power supply unit for the detect 3000 range. Approved according to EN 54-4 A1 2002, A2 2006 and VdS for the use according to VdE 0833.

- Primary synchronized switching power supply with electronic overload functions
- Integrated low voltage discharge protection
- Controlled output voltage 27,6 V
- Flexible input voltage range 110 to 230 V
- LED - fault display and potential free fault outputs
- Intelligent battery-management

### Technical data

Output current	2,0 A
Battery capacity	Max. 2 x 17 Ah
Protection class	IP 20
Colour	White
Material	Sheet steel
Dimensions (H x W x D)	420 mm x 400 mm x 80 mm
Weight	9 kg
CE-CPD number	0786-CPD-20787

### Primary 5 A synchronized mains adapter

**2405STE**

VdS approval G 209142

Art-Nr.: 32580



Universal primary synchronized mains adapter for the use as an emergency power supply unit for the detect 3000 range. Approved according to EN 54-4 A1 2002, A2 2006 and VdS for the use according to VdE 0833.

- Primary synchronized switching power supply with electronic overload functions
- Integrated low voltage discharge protection
- Controlled output voltage 27,6 V
- Flexible input voltage range 110 to 230 V
- LED - fault display and potential free fault outputs
- Intelligent battery-management

### Technical data

Output current	5,0 A
Battery capacity	Up to 2 x 17 Ah in the housing Up to 2 x 38 Ah with separate housing
Protection class	IP 20
Colour	White
Material	Sheet steel
Dimensions (H x W x D)	420 mm x 400 mm x 80 mm
Weight	9 kg
CE-CPD number	0786-CPD-20787

### 1 Loop - interface, active, 140 mA

VdS approval related to panel detect 3004<sup>plus</sup>

### DLI 3240PS X1 1L

Art-Nr.: 32737



Microprocessor controlled loop interface for the uninterruptible and short-circuit-proof use with the loop3000 fire detection system components. For the connection of 126 fire detection system components on one loop or 2 spurs.

- Connection of loop3000 components in loop structure or spur-structure
- Easy and flexible installation and initialization via automatic and manual addressing
- Integrated RS-232 interface for an easy analysis of the loop components, the preadjustment of functions and commissioning of loop3000
- 8 integrated freely programmable open-collector-alarm outputs
- 2 integrated open-collector-alarm outputs for the programming of collecting functions
- Supply via fire control panel detect 3004
- Integrated short circuit isolaters on all loop outputs
- Up to 42 T-branches per loop possible
- Commissioning and service tool for analyzing and fault finding functions with I-Check software

#### Technical data

Supply voltage	20 a 32 V DC via detect 3004 <sup>plus</sup> supply
Emergency supply	Via detect 3004 <sup>plus</sup> supply
Interfaces	1 x RS-232
Uscite	Alternative 2 stitches
Dimensions (H x W x D)	140 mm x 140 mm x 30 mm
Standards	EN 54-2 and EN 54-17
System approval	S 295054 e S 210001

### 2 Loop - Interface, active, 2 x 140 mA

VdS approval related to panel detect 3004<sup>plus</sup>

### DLI 3240PS X1

Art-Nr.: 32738

Microprocessor controlled loop interface for the uninterruptible and short-circuit-proof use with the loop3000 fire detection system components. For the connection of 2 x 126 fire detection system components on two loops or 4 spurs

Properties and technical data like Art.No. 32737.

### 2 Loop - Interface, active, 2 x 140 mA, redundant

VdS approval related to panel detect 3004<sup>plus</sup>

### DLI 3240PS X1 - R

Art-Nr.: 32739

Microprocessor controlled loop interface for the uninterruptible and short-circuit-proof use with the loop3000 fire detection system components. For the connection of 2 x 126 fire detection system components on two loops or 4 spurs.

With a second processor for increased reliability in the loop (redundancy)

Properties and technical data like Art.No. 32737

### Conventional interface for 8 fire zones

VdS approval related to panel detect 3004<sup>plus</sup>

### CLI X1

Art-Nr.: 30210



Microprocessor controlled conventional interface for the uninterruptible and short-circuit-proof use with conventional detectors of the series CT 3000

- Connection of up to 25 automatic conventional detectors of the series CT 3000 (10 manual call points) per detector zone
- 8 integrated freely programmable open-collector-alarm outputs
- 2 integrated open-collector-alarm outputs for the programming of collecting functions
- Supply via fire control panel detect 3004

#### Technical data

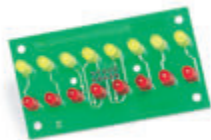
Supply voltage	20 a 32 V DC via detect 3004 <sup>plus</sup> supply
Emergency supply	Via detect 3004 <sup>plus</sup> supply
Dimensions (H x W x D)	140 mm x 140 mm x 30 mm
Standards	EN 54-2, EN 54-17
System approval	S 295054 and S 210001

### LED indicator module for 8 zones

### ZM 8

VdS approval related to panel detect 3004 <sup>plus</sup>

Art-Nr.: 30088



LED indicator module for the status indication of 8 detector zones with yellow LEDs for fault and red LEDs for alarm for the mounting into the front door of the fire control panel detect 3004.

- Suitable for all fire control panels of the series detect 3004
- 8 red LEDs for the indication of alarms of each detector zone
- 8 yellow LEDs for the indication of faults of each detector zone
- Direct connection to the CPU via a 10 pole ribbon cable (included in delivery)
- Possibility for the labelling of each detector zone in the front of the panel, by the integration in the front plate MP 3004 (optional)

**General remarks:** Up to 6 LED indicator modules can be connected in the front of the panel 2 modules can be connected directly to the CPU. For the modules 3-6 an adapter board will be necessary (Art.-No. 30386)

### Technical data

Supply voltage	20 a 32 V DC via detect 3004 supply
Emergency supply	Via detect 3004 <sup>plus</sup>
Dimensions (H x W x D)	80 mm x 43 mm x 12 mm
Standards	EN 54-2, EN 54-17
System approval	S 295054 and S 210001

### Extinguishing Display board for detect 3004 <sup>plus</sup>

### EXT 3004 <sup>plus</sup>

Art-Nr.: 32559

### Extension Module for LED indicator 3-6 <sup>plus</sup>

### ADB 48

Art-Nr.: 30386

### Mounting Plate

### MP 3004

Art-Nr.: 31946

Single display and printer for detect 3004

### Mounting Plate

### CPMP 3004 <sup>plus</sup>

Art-Nr.: 32560

For display extinguishing interface and printer for 3004 <sup>plus</sup>

### Assembly frame 19" -12 HE for detect 3004 <sup>plus</sup>

### RMK 19

Art-Nr.: 30161

### Extinguishing control card,

### ETB X1

Art-Nr.: 30111

1 extinguishing area for detect 3004 and detect 3004 <sup>plus</sup>

### Redundance-Calculator

### CPU X1-R

Art-Nr.: 30113

### Additional casing, deep for detect 3004 <sup>plus</sup>

### UZG 1

Art-Nr.: 31318

### Mount in printer for detect 3004 <sup>plus</sup>

### PIP 3004 <sup>plus</sup>

Art-Nr.: 32558

- Mounting Plate (Art.-Nr. 32560) is required

### Thermo-paper for PIP 2 and PIP 3004 <sup>plus</sup>

### EP 5

VdS approval G 203068

Art-Nr.: 30107

- Packing unit 5 rolls



### Relay board, 8 change over contacts

**RB 8**

VdS approval G 203068

Art-Nr.: 30077



Control board for the connection of up to 8 additional external change over contacts for the fire control panels detect 3004.

- Possibility for 8 additional change over contacts for the control of external circuits of up to 250 V/5A
- 8 low-active inputs for the parallel switch of the outputs of the control board
- 1 input for the release or the switch off of the functions of the control board
- Power supply 24 V via power supply unit of the fire control panel
- Module-housing for the easy mounting onto a DIN rail
- 8 LEDs to indicate the status of the outputs

#### Technical data

Input voltage	21 a 28 V DC
Material	ABS
Dimensions (H x W x D)	125 mm x 110 mm x 60 mm

### Alarm control module, 32 OC-outputs

**AM**

VdS approval G 203036

Art-Nr.: 30115



Microprocessor controlled extension module for 32 additional programmable alarm outputs (OC-outputs) for the extension of the output matrix of the fire control panels detect 3004.

- Extension for 32 programmable alarm output areas
- Activation via internal I<sup>2</sup>C-bus or via RS-232-Interface of the fire control panel
- Remote mounting by connectors (via RS-232)
- Power supply 24 V via power supply unit of the fire control panel
- Easy mounting via 32 pole pin contact bar in the connection board of the detect 3016, via ribbon cable of the detect 3004 or the adapter plate

#### Technical data

Input voltage	21 up to 28 V DC
Outputs	32 open collector
Dimensions (H x W x D)	140 mm x 140 mm x 25 mm

### Connection board for alarm module AM 30115

**AM AP**

VdS approval G 203068

Art-Nr.: 30116



Adapter module for the external use or remote mounting of the alarm module AM outside of the fire control panels detect 3004.

- Module housing for easy mounting on DIN-rail
- Terminal block for easy external circuits
- Remote mounting by connectors possible

#### Technical data

Material	ABS
Dimensions (H x W x D)	88 mm x 175 mm x 70 mm

### Output card sounder, 4 outputs, monitored

**SC 4**

Art-Nr.: 32066



Output card for a monitored connection of up to 4 additional shortcircuit-proof signal lines to the fire control panels of series detect 3004/3016.

- max. 580 mA line current each
- Outputs can be activated to be dependent on the button "ext. Warning on/off" of the fire control panel
- 4 inputs for the control of signal lines
- Adjustment possibility for individual or collective control of all signal lines via jumper
- 24 V supply via supply unit of the fire control panel
- Contenitore per montaggio su barra DIN
- 12 LEDs for indication of operation and status
- Cascading option of multiple modules of the same type

#### Technical data

Input voltage	21 up to 37 V DC
Material	ABS
Dimensions (H x W x D)	125 mm x 130 mm x 70 mm



### Fire control panel

### DC3400

VdS approval G 208123

Art-Nr.: 32530



#### Technical data

Input voltage	84 - a 264V AC/47 - 63 Hz 120 fino a 300V DC
Power supply	32 V DC/150 W/3,5 A
Emergency backup	2x12 V/12Ah
Interfaces	USB
Dimensions (H x W x D)	300mm x 400mm x 135mm
Standards	EN 54-2: 1997/A1:2006 EN 54-4: 1997/A1:2002 A2:2006
System approval	S 208123
CE-CPD-number	CE 0786-CPD-20770

Microprocessor controlled compact fire control panel for use with the loop3000 fire detection system components approved according to EN 54-2 A1 2006 and EN 54-4 A1 2003 and A2 2006.

- Display, 320 x 240 pixel with backlight 18 LED indicators for status notifications
- Integrated USB-interface for the easy programming via DCT-software
- Integrated primary switched power supply 150 W according to EN 54-4 A2 2006
- 1 Loop 200 m up to 126 mA/3500 loop3000-elements
- 2 freely programmable monitored inputs
- Emergency backup via 2 batteries 12 V up to 12 Ah
- Integrated alarm buffer and 2 detector/2 zone dependencies
- 8 integrated languages (German, English, Dutch, Czech, Spanish, Portuguese, Italian, French)
- Memorizzazione della segnalazione di incendio e dipendenza da 2 segnalazioni / gruppi
- Programmable reaction and inspection times Software update via USB-interface
- Programmable alarm modes

### In-/output module

### IOM 3322

VdS approval G 205029

Art-Nr.: 30075



#### Technical data

Operation voltage	15 to 30 V DC loop powered on two wire bus
Quiescent current	760 µA
Alarm current	760 µA; 5 mA if alarm LED is active
Output	2 relais 1 change 30 V DC/1 A
Input	2 low active monitored
Weight	Ca. 190 g
Protection class	IP 54
Colour	Grey (similar RAL 7035)
Material	ABS
Dimensions (H x W x D)	93 mm x 93 mm x 55 mm
Standards	EN 54-17, EN 54-18 S 295054, S 208123 and S 210001
CE-CPD-number	0786-CPD-20459

Intelligent Input-/output module for the loop3000 with bidirectional isolator according to EN 54-18 with two monitored inputs and one potentialfree relay output.

- Connecting module with two freely programmable input and two freely programmable output
- Programming of different switching variants of input and output also with time control
- Monitoring of the operating status via loop3000
- Independent programming of input and output
- Automatic and manual addressing on the loop3000
- Integrated Isolator and T-branch option
- Functions completely integrated via loop3000-protocol
- Multicolour-LED for alarm- (red) and fault (yellow)
- Aesthetical robust wall mounted housing according with IP 54

Attention: Only compatible to the control panels of type detect 3400

### Loop-Tester

### LT 3000

Art-Nr.: 31625



Scope of delivery: 1 Suitcase

- 1 Loop - Tester
- 1 Voltage supply
- 1 Interface cable

Programming tool for an easy automatic or manual (scanfunction) addressing and programming of the components of the loop3000 via personal computer

- Stand-Alone device with up- and download function for an easy automatic and manual (scanfunction) addressing and programming of the components of the loop3000 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 installation or for the test of subareas (e.g. difficult to access areas)
- 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 diagnostic software I-Check 3000
- Including 230 V-voltage supply for the diagnostic tool

### Diagnostic and programming tool Easy Check

### EC 3000

Art-Nr.: 3148 2



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 loop3000 components
- Update option of the device software via integrated RS-232-interface
- Acoustic alert at low battery
- The programming of the automatic detectors can be done directly via the integrated detector base
- Transportation suitcase

### In-/Output module, with isolator

### IOM 3311

VdS approval G 205029

Art-Nr.: 30200



Intelligent Input/Output module for the loop3000 with bidirectional isolator according to EN 54-18. With one monitored input and one potentialfree 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
- Integrated isolator and T-branch option
- Multicolour LED for alarm (red) and fault (yellow)
- Aesthetical robust wall mounted housing according with IP 54

### Technical data

Output	Relais 1 scambio 30 V DC/1 A
Input	Attivi bassi controllati
Weight	Ca. 185 g
Protection class	IP 54
Housing	ABS grey (similar RAL 7035)
Dimensions (H x W x D)	93 mm x 93 mm x 55 mm
Standards	EN 54-18, EN 54-17
System approval	S 295054, S 208123 and S 210001
CE-CPD-number	0786-CPD-20459

### Input/Output module, single I/O, signalling devices

### OMS 3301

VdS approval G 205030

Art-Nr.: 30211

Properties and technical data like Art.Nr. 30200, however:

- 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

## Addressable automatic detectors for **loop3000** and accessories

To detect fires in the earliest stage was one of the main targets within the development of the detectors of the loop3000 system. The elements are based on the EN 54 standards and meet the demands and requirements of the international markets. Extensive analyzing methods and combinations of different sensor criteria and complex algorithms guarantee an easy operation and comprehensive maintenance and diagnostic features. The detectomat-protocol allows a detailed analysis and an adoption to the ambient conditions of the according application. Redundant measurements ensure a high functionality and reliability. The system parameters allow an easy operation and maintenance. Special integrated software features can control all measurements and analyze accordingly to adjust the system performance to the application.

### Features at a glance:

- The addressable detectors are manufactured according to EN 54-5, -7, -17\* and -29
- High variety in design
- Patented measurement methods
- Verification and elimination of disturbance values
- Controlled quality and retraceability
- Fast and reliable fire detection
- High operation reliability – low operation costs
- Possibilità di indirizzamento automatico o manuale



# Addressable automatic detectors for **loop3000** and accessories

## Technical Data:

- Exact pollution recognition by an additional independent measuring chamber
- All detectors with thermal function: Integrated temperature measurement as rate of rise procedure and maximum value in accordance to EN 54-5 A1 and A2
- Detector sensitivities automatically calibrated and freely programmable
- Fault monitoring of the measurement chamber signal and loop3000-electronics
- Periodic sensor test
- Automatic and manual addressing on the loop3000
- Integrated Isolator and T-branch option of types PL 3300
- Alarm output for the triggering of LED indicators
- Functions completely integrated via loop3000-protocol
- Disable and enable modes with individually adjustable sensitivities
- Storage of last maintenance date
- Self learning modes for the ambient conditions
- Display of the temperature environments of the fire detection system by a second temperature measurement
- Multicolour LED for alarm (red) and fault (yellow)
- Delivery including protective cover for installation phase



Detectors	loop3000
Operating voltage	15 to 30 V DC loop powered
OC-outputs	Max. 10 mA for LED-indicator or piezo buzzer
Sensitivity	5 levels adjustable
Ambient temperature	-10°C to +60°C
Humidity	Max. 95 %
Air speed (opt. detector)	< 20 m/s
Protection class	IP 40
Colour housing	White (similar to RAL 9003)
Material*	ABS
Dimensions (H x Ø)*	52 mm x 100 mm

\*Design detectors different

### Multisensor optical-heat-intelligent, Fusion technology

### PL 3300 OTi Fusion

VdS approval G 208095

Art-Nr.: 32149



#### Technical data

Standards	EN 54-5, EN 54-7, EN 54-17, EN 54-29
System approval	S 295054, S 208123 and S 210001
CE-CPD-number	0786-CPD-20580

Intelligent optical and thermal multi sensor detector for loop3000 with 2 optical and 2 thermal sensors and a bidirectional isolator for earliest fire detection and indication in all environments with difficult ambient conditions, according to EN 54-5, EN 54-7, EN 54-17 and EN 54-29.

- Fusion® - Technology for the detection of the smallest smoke particles and fires in the early stage by using the wavelengths of the wide-band 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 intelligent combination of thermal and optical sensor signals with via algorithms

### Multisensor detector optical-heat - intelligent

### PL 3300 OTi

VdS approval G 208096

Art-Nr.: 32150



#### Technical data

Standards	EN 54-5, EN 54-7, EN 54-17, EN 54-29
System approval	S 295054, S 208123 and S 210001
CE-CPD-number	0786-CPD-20580

Intelligent optical and thermal multi sensor detector for loop3000 with 2 optical and 2 thermal sensors and a bidirectional Isolator for earliest fire detection and indication in all environments with difficult ambient conditions, according to EN 54-5, EN 54-7, EN 54-17 and EN 54-29.

- 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 intelligent combination of thermal and optical sensor signals with via algorithms

### Multisensor carbon monoxide gas & heat

### PL 3300 COBT

VdS approval G 207005

Art-Nr.: 30079



#### Technical data

Life time CO-Sensor	5 years
Standards	EN 54-5, EN 54-17
System approval	S 295054, S 208123 and S 210001
CE-CPD-number	0786-CPD-20582

**General remarks** The carbon monoxide detector requires a calibration once a year to ensure the high detection levels is maintained

Intelligent multi sensor detector for the loop3000 series featuring sensor technology for carbon monoxide detection in combination with two thermal detectors and an integrated Isolator for earliest detection and indication for all environments with difficult ambient conditions, in accordance to EN 54-5 and EN 54-17.

For the earliest detection of smouldering fires of all kinds including electrical. The PL 3300 COBT continuously monitors the temperature and the CO-concentration.

- Alarm evaluation with professional CO-sensor technology
- Measurement of carbon monoxid with 2 alarm thresholds:  
Prealarm: 15 ppm in 15 min, Alarm: 30 ppm in 60 min
- Integrated acoustic indication for CO-pre alarm and CO-alarm
- Highest reliability by intelligent combination of thermal and CO sensor via algorithm



**Optical smoke detector, with isolator**

**PL 3300 O**

VdS approval G 202002

Art-Nr.: 30011



Optical smoke detector for loop3000 with 2 optical and 1 thermal sensor for earliest fire detection and indication and with bidirectional isolator according to EN 54-7 and EN 54-17.

**Technical data**

Dimensions (H x Ø)	44 mm x 100 mm
Standards	EN 54-7, EN 54-17
System approval	S 295054, S 208123 and S 210001
CE-CPD-number	0786-CPD-20035

**Heat detector with fixed and rate of rise temperature settings**

**PL 3300 T**

VdS approval G 203037

Art-Nr.: 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.

**Technical data**

Standards	EN 54-7, EN 54-17
System approval	S 295054, S 208123 and S 210001
CE-CPD-number	0786-CPD-20044

**Detector standard base with bridge, white**

**SDBB 3000**

Art-Nr.: 31959



Detector Base with integrated bridge suitable for all detectors of loop3000, white.

- 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 connectors for the connection of one branch for the loop extension (T-branch)
- Mounting space for the piezo buzzer (Art.-No. 32091) and the detector labelling clip Art.-No. 30479
- Including transparent seal cover to protect the base against contaminants

**Technical data**

Colour	white (similar to RAL 9003)
Material	ABS
Dimensione (H x Ø)	21 mm x 95 mm

# Addressable manual call points for **loop3000** and accessories

## Features at a glance:

- The addressable manual call points correspond to EN 54-11 and 17
- German and international execution of the housing
- Integrated Isolator according to EN 54-17
- Automatic and manual addressing mode



## Technical data:

- Automatic and manual addressing on the loop3000
- Integrated Isolator and T-branch option (with type description PL 3300 )
- Alarm output for the activation of e.g. a parallel indicator
- Functions completely integrated via loop3000 -protocol

Manual call points	loop3000
Operatin voltage	15 to 30 V DC loop powered
OC-outputs	Max. 10 mA for LED-indicator or piezo buzzer
Ambient temperature	-10°C to + 60°C
Humidity	Max. 95%
Protection class	IP 42



Manual Call Point, with isolator, with LED, ABS, red

PL 3300 PBDH-ABS-R

VdS approval G 203021

Art-Nr.: 31669



Manual Call Point for loop3000 for the manual activation of an alarm with bidirectional Isolator and status display via LED according to EN 54-11 and EN 54-17 Red plastic housing with imprint „burning house“.

- Push Button mechanics for the activation of a manual alarm
- Activation after smash of the front glass
- Integrated reset mechanics
- Integrated red alarm-LED

### Technical data

Weight	270 g. ca
Colour	Red (RAL 3000)
Material	ABS
Dimensions (H x W x D)	135 mm x 135 mm x 33mm
Standards	EN 54-11, EN 54-17
System approval	S 295054, S 208123 and S 210001
CE-CPD-number	0786-CPD-20382

### Accessories:

Spare glass Art.-No. 31910  
Spare key Art.-No. 40054

Manual Call Point, with isolator, with LED, ABS, red

PL 3300 PBD- ABS-R

VdS approval G 203021

Art-Nr.: 30535

Red plastic housing with imprint „Feuerwehr“

Manual Call Point, with isolator, with LED, ABS, blue

PL 3300 PBD - ABS - B

VdS approval G 203021

Art-Nr.: 31059

Blue plastic housing with imprint „Hausalarm“

Manual Call Point, with isolator, with LED, ABS, yellow

PL 3300 PBD - ABS - Y

VdS approval G 203021

Art-Nr.: 31060

Yellow plastic housing with imprint „Löschanlage“

Manual Call Point

PL 3300 MCP

Art-Nr.: 32433



Manual Call Point for loop 3000 for the manual activation of an alarm with bidirectional Isolator according to DIN EN 54-11, EN 54-17. Red plastic housing with imprint „burning house“.

- Manual Call Point mechanics for the activation of a manual alarm
- Non-destructive activation and reset via mechanics
- Automatic and manual addressing on the loop 3000
- Integrated isolator
- Functions completely integrated via loop 3000-protocol

### Technical data

Operation voltage	15 a 30 V DC su bus a 2 conduttori
Quiescent current	280 $\mu$ A
Alarm current	5 mA
Ambient temperature	-10°C to +60°C
Humidity	max. 95%
Protection class	IP 32
Colour	Rosso (RAL 3000)
Material	ABS
Dimensions (H x Wx D)	89 mm x 89 mm x 51 mm
Standards	DIN EN 54-11, EN 54-17
CPD number	0333-CPD-075280

Manual Call Point, with isolator, LED, Aluminium, red,  
VdS approval G 203021

PL3300 PBDH-IP66-R

Art-Nr.: 31669



Manual Call Point for loop3000 for the manual activation of an alarm with bidirectional Isolator and status display via LED according to EN 54-11 and EN 54-17.

Red aluminium housing with imprint „burning house“

- Push Button mechanics for the activation of a manual alarm
- Activation after smash of the front glass
- Integrated reset mechanics
- Integrated red alarm-LED

### Technical data

Weight	495g. ca
Colour	Red (RAL 3000)
Material	ABS
Dimensions (H x W x D)	125 mm x 125 mm x 34 mm
Standards	EN 54-11, EN 54-17
System approval	S 295054, S 208123 and S 210001
CE-CPD-number	0786-CPD-20382

### Accessories:

Spare glass Art.-No. 31910

Spare key Art.-No. 40054

Weatherproof housing Art.-No. 31091

### General remarks:

Suitable for a wheatherproof housing

# Addressable optical/acoustic signalling for **loop3000** and accessories

## Features at a glance:

- The addressable input / output elements correspond to EN 54-3, 17, 18 and 23
- Different housings and signalling options
- Integrated Isolator according to EN 54-17
- Automatic and manual addressing mode
- Flexibility with programming and connection variances in the system 3000



## Technical data:

- Activation, monitoring and supply via loop3000-protocol
- Integrated automatic reset function at signal „extern signal line on/off“ by the fire control panel
- Monitoring of the operating status via loop3000
- Independent programming via autarkic loop-address
- Automatic and manual addressing on the loop3000
- Integrated Isolator
- Functions completely integrated via loop3000-protocol

Signalling devices	loop3000
Operation voltage	15 to 30 V DC loop powered
Ambient temperature	-10°C to + 60°C
Humidity	Max. 95%

For the calculation/design of the number of loop3000-signalling devices please use the latest loop calculator version.

### Loopsounder red, with isolator

**LS 3300 R**

VdS approval G 208103

Art-Nr.: 31836



#### Technical data

Operation voltage	15 to 30V DC loop powered
Quiescent current	280 µA
Alarm current	5 mA
Sound level	max 97 dB
Ambient temperature	-10°C a +60 °C
Protection class	IP 54
Colour	Red
Material	ABS
Dimensions (H x Ø)	100 mm x 101 mm
Weight	340 g
Standards	EN 54-3, EN 54-17

Intelligent acoustic signalling device for the loop3000 for the external acoustic alarm with bidirectional isolator according to EN 54-3. Wall mounted housing, red colour

- Activation, monitoring and supply via loop3000-protocol
- Integrated automatic reset function at signal „external signal line on/off“ by the fire control panel
- Monitoring of the operating status via loop30
- Independent programming via autarkic loop address
- Automatic and manual addressing on the loop3000
- Integrated isolator
- 4 different tones adjustable via DIP-switch (including DIN tone)
- Integrated dual tone alarm function via separate activation possible
- Volume control via integrated potentiometer
- Functions completely integrated via loop3000-protocol
- Aesthetical robust wall mounted housing according with IP 54

#### General remarks:

For the calculation/design of the number of loop3000-signalling devices please use the latest loop calculator version

### Loop3000 - sounder, with Isolator, white

**LS 3300 W**

VdS approval G 208103

Art-Nr.: 32012

### Loopsounder base, with isolator

**LS 3300 VLC**

VdS approval G 208144

Art-Nr.: 32060



#### Technical data

Operation voltage	15 to 30V DC loop powered
Quiescent current	400 µA
Alarm current	6 mA
Sound level	max. 85 dB
Ambient temperature	-10 °C to +60 °C
Protection class	IP 54
Colour housing	Base sounder in white, covers in red or white
Material	ABS
Dimensions (H x Ø)	27 mm x 117 mm
Weight	250 g
Standards	EN 54-3, EN 54-17
System approval	S 295054, S 208123 and S 210001
CE-CPD-number	0786-CPD-20525

Intelligent acoustic signalling device for the loop3000 for the external acoustic alarm with bidirectional isolator according to EN 54-3. Suitable as wall mounted sounder version or as sounder base for the detector fixed to the ceiling.

- Activation, monitoring and supply via loop3000-protocol
- Integrated automatic reset function at signal „external signal line on/off“ by the fire control panel
- Monitoring of the operating status via loop3000
- Independent programming via autarkic loop address
- Automatic and manual addressing on the loop3000
- Integrated isolator
- 32 different tones adjustable via DIP-switch (including DIN tone)
- Integrated dual tone alarm function via separate activation possible
- Functions completely integrated via loop3000-protocol
- Red or white cover available
- For the VdS compliant installation the screw cap must be installed with the fuse

#### Accessories:

Art.-No. 32067 Cover plate for loop3000 - base sounder, red  
 Art.-No. 32068 Cover plate for loop3000 - base sounder, white  
 Art.-No. 32472 Cover ring for loop3000 - base sounder, white

#### General remarks:

When using the cover ring, there is a volume reduction

Cover ring for loop3000 - base sounder, white	<b>AD Ring</b>
	Art-Nr.: 32472
Cover for sounder flat red	<b>AD R</b>
	Art-Nr.: 32067
Cover for sounder flat white	<b>AD W</b>
	Art-Nr.: 32068
Loop beacon, orange, with isolator	<b>LB 3300 VXB O</b>
	Art-Nr.: 32090
Loop beacon, red, with isolator	<b>LB 3300 VXB R</b>
	Art-Nr.: 32058



### Technical data

Operation voltage	15 to 30V DC loop powered
Quiescent current	400 µA
Alarm current	6 mA
Ambient temperature	-10 °C a +60 °C
Protection class	IP 43
Colour	White housing, red calotte
Material	ABS
Dimensions (H x Ø)	80 mm x 98 mm
Weight	145 g

Intelligent optical signalling device for the loop3000 for the external alarm with bidirectional isolator according to EN 54-23. Wall mounted housing, white colour, red beacon

- Activation, monitoring and supply via loop3000-protocol
- Integrated automatic reset function at signal „external signal line on/off“ by the fire control panel
- Monitoring of the operating status via loop3000
- Independent programming via autarkic loop address
- Automatic and manual addressing on the loop3000
- Integrated short circuit isolator
- Integrated 1 Hz LED-beacon
- Functions completely integrated via loop3000-protocol
- Aesthetical robust wall mounted housing according with IP 43

### General remarks:

For the calculation/design of the number of loop3000-signalling devices please use the latest loop calculator

LED indicator, with isolator	<b>PA</b>
VdS approval G 208141	Art-Nr.: 32282



### Technical data

Operation voltage	15 to 30V DC loop powered
Quiescent current	400 µA
Alarm current	6 mA
Ambient temperature	-10 °C to + 50 °C
Protection class	IP 30
Colour	White housing, red calotte
Material	ABS
Dimensions (H x W x D)	84 mm x 84 mm x 35 mm
Weight	65 g. ca
Standards	EN 54-17
System approval	S 295054 and S 208123
CE-CPD-number	0786-CPD-20535

Intelligent detector parallel indicator for the loop3000 for the external optical indication of the installation place of one or more detectors with bidirectional isolator.

White wall mounting housing, red colour

- Activation, monitoring and supply via loop3000-protocol
- Monitoring of the operating status via loop3000
- Independent programming via autarkic loop address
- Automatic and manual addressing on the loop3000
- Integrated isolator
- Functions completely integrated via loop3000-protocol
- Aesthetical robust wall mounted housing according with IP 30

### General remarks:

The parallel indicator (Art.-No. 31193) can be connected directly to the integrated OC-output of the detector for a direct display of the detector status

Sound unit red, with isolator

LB3300

Art-Nr.: 32058



#### Technical data

Operation voltage	15 to 30V DC
Quiescent current	280 µA
Alarm current	128 mA; via extern supply: 9 to 29 mA
Sound level	max.112dB
Ambient temperature	-10 °C a +60 °C
Protection class	IP 54
Colour housing	Red
Material	ABS
Dimensions (H x Ø)	93 mm x 93 mm
Weight	340 g
Standards	EN 54-3, EN 54-17

Intelligent acoustic signalling device for the loop3000 for the external acoustic alarm with bidirectional isolator according to EN 54-3. Wall mounted housing, colour red

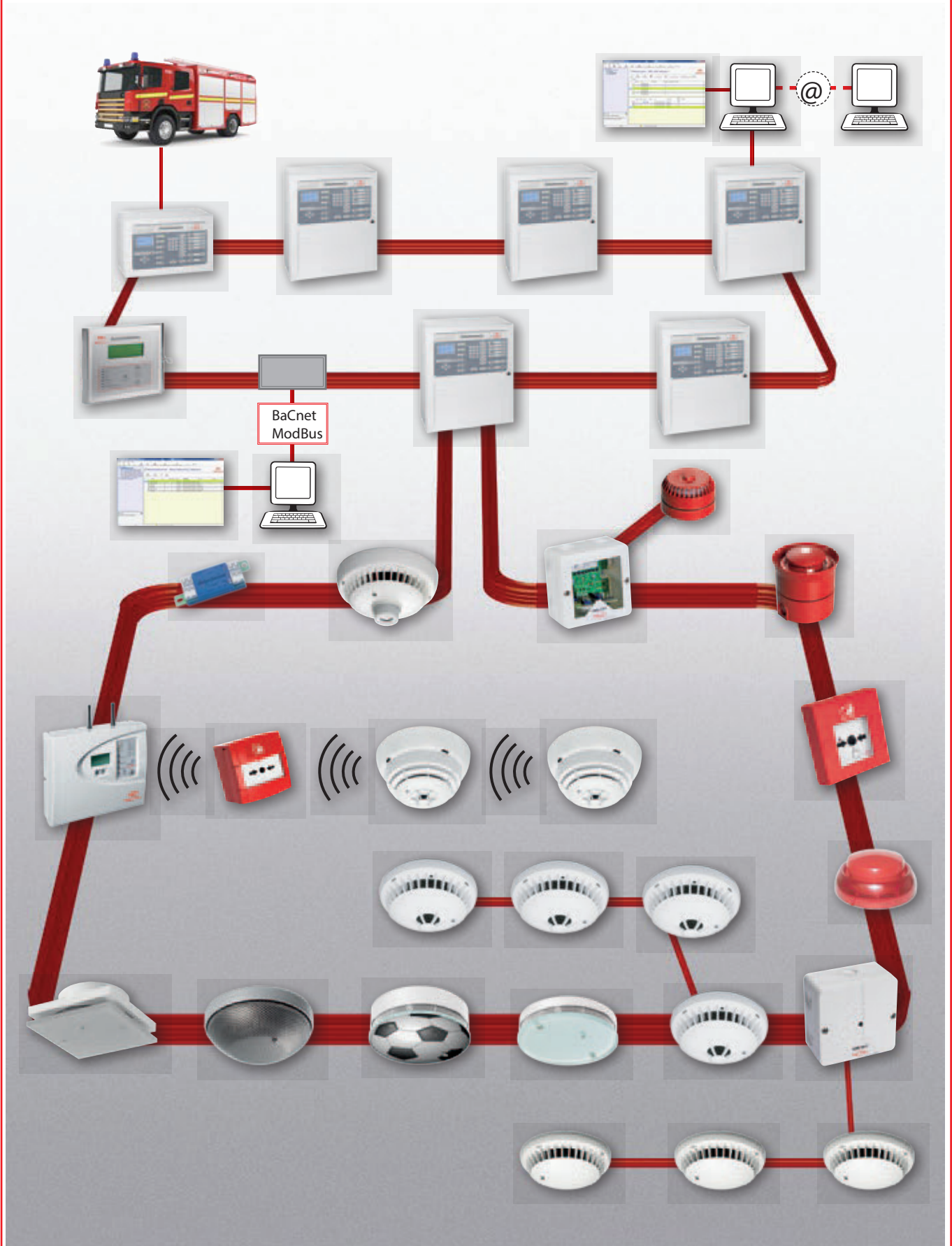
- Activation, monitoring and supply via loop3000-protocol
- Integrated automatic reset function at signal „external signal line on/off“ by the fire control panel
- Monitoring of the operating status via loop3000
- Independent programming via autarkic loop address
- Automatic and manual addressing on the loop3000
- Integrated Isolator and T-branch option
- 32 different tones via DIP-switch, including DIN-Tone
- Integrated dual tone alarm function via seperate activation possible
- Functions completely integrated via loop3000-protocol
- Aesthetical robust wall mounted housing according with IP 54

#### General remarks:

For the calculation/design of the number of loop3000-signalling devices please use the latest loop calculator



# Fire Alarm System detect Schematic representation





**Remarks**



**CACCIALANZA & C.**   
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