

## 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