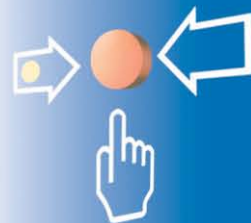


Detectors for Hazardous Areas

Series ORBIS



- Conventional technology
- Optical smoke detector
- Optical-thermal detector
- Thermal fire detectors classes A1R and A1S
- ATEX certified



Optical Smoke Detector OP-52027

The smoke detector OP-52027 in conventional technology is designed for use in hazardous areas. It contains an optical sensing chamber based on the scattered light principle and has been developed for the detection of different kinds of smoke particles.

The multicoloured status LED indicates the activated condition of the detector in red. If the contamination of the optical measurement system is too high or if the detector experiences a fault, this will be indicated by a yellow blinking of the LED.

Intelligent evaluation algorithms compensate for the contamination of the optical measurement system and keep the response sensitivity of the detector constant for a long time. In this way, false alarms can be avoided to a great extent.

For the connection to the conventional line, a compatible safety barrier (e.g., ES58-2, Art. No. 228003) is required. The relevant country-specific regulations have to be observed.

Specifications

Operating voltage	Supply through the detector line voltage
Ignition protection	intrinsically safe
Ex classification	Ex II 1 G Ex ia IIC
Current consumption	typ. 85µA (quiescent)
Ambient temperature	-40°C to +40°C (class T5, no icing) -40°C to +60°C (class T4, no icing)
Relative humidity	0 – 98% (no condensation)
Dimensions Ø x H	100 x 31 (mm)
Colour	white
Weight	75g
Approvals	Baseefa 06 ATEX 0007X VdS G207027 2531-CPR-CSP11158
Order number	241062
Order name	Optical Smoke Detector/Orbis/IS OP-52027

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VdS

CE

2531-CPR-CSP11158
2531-CPR-CSP11157
2531-CPR-CSP11149
2531-CPR-CSP11155

LST

Optical-Thermal Detector OH-53027

The Optical-Thermal Detector OH-53027 in conventional technology is designed for use in hazardous areas. It contains both an optical sensing chamber based on the scattered light principle as well as a temperature sensor. The evaluation of the measured values of both detection units and the integrated comparison of characteristics of fire ensure safe fire detection.

Intelligent evaluation algorithms compensate for the contamination of the optical measurement system and keep the response sensitivity of the detector constant for a long time. In this way, false alarms can be avoided

to a great extent.

The multicoloured status LED indicates the activated condition of the detector in red. If the contamination of the optical measurement system is too high or if the detector experiences a fault, this will be indicated by a yellow blinking of the LED.

For the connection to the conventional line, a compatible safety barrier (e.g., ES58-2, Art. No. 228003) is required. The relevant country-specific regulations have to be observed.

Specifications

Operating voltage	Supply through the detector line voltage
Ignition protection	intrinsically safe
Ex classification	Ex II 1 G Ex ia IIC
Current consumption	typ. 85µA (quiescent)
Ambient temperature	-40°C to +40°C (class T5, no icing) -40°C to +60°C (class T4, no icing)
Relative humidity	0 – 98% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	80g
Approvals	Baseefa 06 ATEX 0007X VdS G207028 2531-CPR-CSP11157
Order number	241063
Order name	Optical-Thermal Detector/Orbis/IS OH-53027

Thermal fire detectors HT-51145 / HT-51157

The thermal fire detectors HT-51145 and HT-51157 in conventional technology are designed for use in hazardous areas.

- The **Thermal RoR Detector HT-51145** according to EN 54-5 Class A1R reacts to temperature changes within defined periods of time as well as a maximum temperature of 57°C.
- The **Thermal Max Detector HT-51157** according to EN 54-5 Class A1S reacts to a maximum temperature of 57°C.

The multicoloured status LED indicates the activated condition of the detector in red. A fault of the detector is indicated by a yellow blinking of the LED.

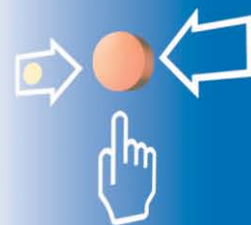
For the connection to the conventional line, a compatible safety barrier (e.g., ES58-2, Art. No. 228003) is required. The relevant country-specific regulations have to be observed.

Both detectors are suitable for a maximum room height of 7.5m.

Specifications

Operating voltage	Supply through the detector line voltage
Ignition protection	intrinsically safe
Ex classification	Ex II 1 G Ex ia IIC

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Current consumption	typ. 85µA (quiescent)
Alarm temperature	57°C (maximum temperature)
Application temperature	max. +50°C
Ambient temperature	-40°C to +40°C (class T5, no icing) -40°C to +60°C (class T4, no icing)
Relative humidity	0 – 98% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	70g

Thermal RoR Detector HT-51145

Approvals	Baseefa 06 ATEX 0007X VdS G207020 2531-CPR-CSP11149
Order number	242037
Order name	Thermal RoR Detector/Orbis/A1R/IS HT-51145

Thermal Max Detector HT-51157

Approvals	Baseefa 06 ATEX 0007X VdS G207026 2531-CPR-CSP11155
Order number	242038
Order name	Thermal Max Detector/Orbis/A1S/IS HT-51157

Detector Base MB-50018

The Detector Base MB-50018 is designed to accommodate an intrinsically safe fire detector Series Orbis in hazardous areas.

Due to its robust multi-wire screw terminals, the detectors can be wired with ease, thus achieving a secure and durable connection.

The base is designed for indoor surface mounting. A mechanical theft protection of the detector can optionally be activated in the detector base.



Specifications

Ambient temperature	-40°C to +70°C (no icing)
Relative humidity	0 – 98% (no condensation)
Dimensions Ø × H	100 × 23 (mm)
Colour	white
Weight	60g
Order number	246043
Order name	Detector Base/Orbis/IS MB-50018

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