O²T multisensor detector ES Detect



Part-No.: 800374
Approval: VdS

Multisensor detector with two integrated optical smoke sensors with different scattered light angles as well as additional heat detector sensor evaluation for detecting anything from smoldering fires to open fires with uniform response characteristics. Compares smoke sensor signals for smoke classification and reduction of false alarms from water vapor or dust, for example. Due to its excellent detection properties, the detector is also capable recognizing test fires TF1 and TF6 described in the standard. The O²T multisensor detector is also suitable for higher application temperatures of up to +65° C.
A remote indicator can also be connected.

Features:

- Optimally matched to the ES Line system
- With multisensor detectors for the detection of all fires, even under the most difficult operating conditions
- Up to 30 detectors per detection group
- Uniform response sensitivity of the detector for all different types of fire for the multisensor detectors
- Large distance between signal and interference magnitudes due to special sensor and electronics design for suppressing electromagnetic influences
- Automatic adaptation to varying environmental influences
- Electronic compensation also called drift-compensation of long-term influences of contamination or aging
- High reliability against false alarms by temporal evaluation of different sensor criteria, with built-in insect screen and sealed against rear air flow entry
- Exclusion of signal forms not typical of fires through special filter algorithms
- Automatic self-monitoring of the detector electronics
- Automatic self-monitoring of sensors for function and condition
- Designation of the heat detector by a black ring on the light pipe
- Hours of operation, alarm and fault counter in each detector
- Operation data retrieval of all detectors of a group with standard service PC and field bus interface
- Detector LED for alarm display and as an identification display in the service (for maintenance with 8000 tools)
- Standard socket and relay base
- Socket adapter for ceiling installation
- Dust caps optional for fire detectors and detector base
- Kit for suspended mounting

Common technical data	
Operating voltage	8 ... 42 V DC
Quiescent current @ 9 V DC	45 µA
Alarm current @ 9 V DC	9 mA
Area to be monitored	110 m²
Height to be monitored	12 m
Air velocity	0 m/s ... 25.4 m/s
Application temperature	-20 °C ... 65 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 %
Type of protection	IP 40 with base, up to IP 43 with base and option
Color	white, similar to RAL 9010
Weight	approx. 110 g
Detector specification	EN 54-7 : 2006/-5 B : 2000, CEA 4021
Dimensions	Ø: 117 mm H: 49 mm (62 mm incl. detector base)

Special colors on request! For the maintenance of the ES Detect detectors, the programming software tools 8000 from version V1.24 in combination with the red EOL-I (part number 808626) is required. In order to pass through existing wires, the WAGO grips (e.g., type 243-204 (Ø 0.5-1 mm) or 273/104 (0.75-2.5 mm²), can be integrated into the detector base.

Without detector base

Accessories:

767800	Assembly bracket
805590	Standard IQ8Quad detector base
805591	Detector base with IQ8Quad relay contact

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