Optical Smoke Detector ES Detect with relay contact, 48 V DC operation

Part-No.: 800361.10

The threshold value detector with relay contact 800361.10 for object monitoring, comprises an optical smoke detector 800371 from the ES Detect Series and a detector base 805592 which enables a direct connection to a 48 V DC power supply. The detector therefore does not need to be operated in connection with a fire alarm control panel.

If the detector detects a fire alarm, a floating relay contact activates to transmit the alarm. The relay contact is normally closed (NC) by default, but can also be configured as normally open (NO) with a solder strap on the circuit board base.

The smoke detector of Series ES Detect used in the detector base can be reset manually or automatically by a short interruption (4 seconds) of the detector voltage.

A typical use for this detector is to monitor mobile communication stations, e.g. BTS base transceiver stations.

Take note, the detector base with relay output for ES Detect 805592 is included in the scope of delivery!

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	42 ... 58 V DC
Quiescent current	approx. 0,051 mA
Current consumption	max. 9 mA
Alarm current @ 9 V DC	9 mA
Contact load relay	30 V DC / 1A, 60 V DC / 0,45 A
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 ... 72 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 40 with base, up to IP 43 with base and option
Material	ABS
Color	white, similar to RAL 9010
Weight	approx. 110 g (approx. 190 g incl. base)
Detector specification	EN 54-7
Dimensions	Ø: 117 mm H: 49 mm (incl. base 62 mm)

ℹ️ Replacement for Part No. 761306 The detector Part No. 800361.10 can be ordered only in the grid of 5 pieces (eg. 5, 10, 15, 20 etc.)

🚚 Without detector base

Accessories:

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