

Rate-of-rise detector ES Detect

**Part-No.: 800271****Approval: VdS**

Automatic heat detector with fast semiconductor sensor for reliable detection of fires with rapid temperature rise and integrated maximum value function for the recognition of fires with slow temperature rises. Fire detector with decentralized intelligence, automatic function self-test, alarm and operations data storage and alarm display.

A remote indicator can also be connected.

Common technical data

Operating voltage	8 ... 42 V DC
Quiescent current @ 9 V DC	25 µA
Alarm current @ 9 V DC	9 mA
Area to be monitored	30 m ²
Height to be monitored	7,5 m
Air velocity	0 m/s ... 25,4 m/s
Application temperature	-20 °C ... 50 °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
Material	ABS
Color	white, similar to RAL 9010
Weight	approx. 110 g
Detector specification	EN 54-5 A1R
Dimensions	Ø: 117 mm H: 49 mm (62 mm incl. detector base)

 Special marking for heat detector on the light pipe: black ring

 Without detector base

Accessories:

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

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