

IQ8Quad – O, TD, TM

- **Secure early fire detection through patented detection methods**
- **Reduced false alarm rates through automatic adaptation to varying environmental conditions**
- **Automatically self-monitoring sensor**
- **Short-circuit and open-circuit tolerant**
- **Signal classification to recognise signals not typical of fires through pattern recognition of fire parameters**
- **Simple installation and commissioning**
- **Indicates detector contamination and implements quiescent value tracing in accordance with the current standards and directives**
- **Extremely low quiescent current of 40 to 60 μ A**



The innovative detector generation

The new IQ8Quad detector generation not only combines state-of-the-art detection technology in a single unit but also sets new standards in terms of safety and effectiveness.

Clever installation and secure investment

Although equipped with a flat-design housing, IQ8Quad detectors are provided with a spacious mounting base for flexible cabling. In addition, unused wires can be directly looped through the base.

Irrespective of the detector version, the standard IQ8Quad detector base can be used for installation.* Thus, installation coordination is facilitated and made more flexible. Detectors can be easily and conveniently removed and the loop is not disconnected during removal. Therefore, fire alarm systems and all their components remain active and operable, enabling short-circuit and open-circuit control within the loop even during installation.

The wiring topology can be read in on site by using the tools 8000 programming software application, while individual customer data and the system configuration can subsequently be entered and set when offline.

The esserbus

With a line length of up to 3,500m and connecting options for a maximum of 127 devices, all advantages provided by loop technology can be used: highest operational reliability and maximum flexibility during installation coordination or during fire alarm system modifications. On account of decentralised intelligence, implemented in the detectors, and standard isolators, bus devices are not disconnected from the loop in the case of wire breaks or short-circuits.

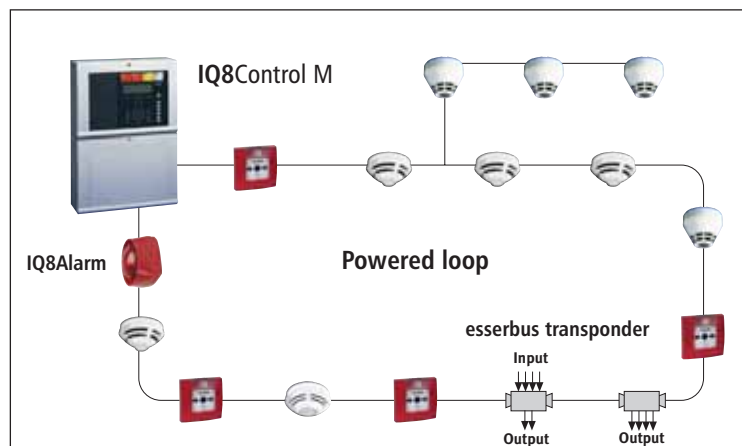
Spurs can be located on the esserbus without adding further modules, which considerably reduces installation expenses. In addition, mixed operation of IQ8Quad detectors and Series 9200 detectors can be set up without facing difficulties.

IQ8Quad - the reliable, economic detector

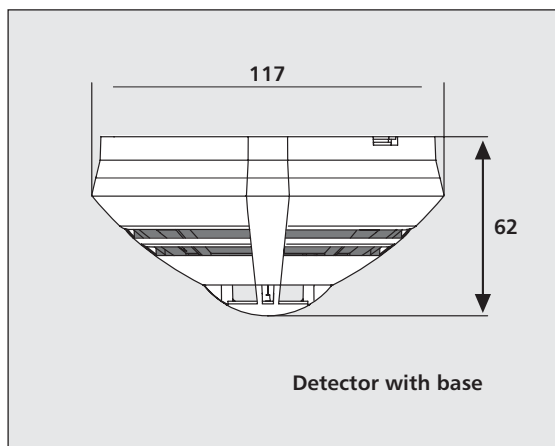
- O The ideal optical smoke detector for detecting visible smoke particles from smouldering fires, light smoke, burning plastic or liquids with smoke generation.
- TD Rate-of-rise heat detector, applicable for stable temperature conditions, where open fires and fast developing fires must be expected.
- TM The reliable fixed heat detector for varying ambient parameters. When the maximum temperature is exceeded, an alarm is reliably actuated.

* in addition to the standard detector base, a relay base can be ordered separately

Schematic loop diagram:



Dimensions (mm):



Technical Data:

Type:	O	TD	TM
Part No.:	802371	802271	802171
Operating voltage:	8 - 42 V DC	8 - 42 V DC	8 - 42 V DC
Quiescent current at UN approx.:	50 μ A	40 μ A	40 μ A
Max. area to be monitored:	110 m ²	30 m ²	30 m ²
Max. height to be monitored:	12 m	7.5 m	7.5 m
Application temperature:	-20 °C to +72 °C	-20 °C to +50 °C	-20 °C to +50 °C
Response temperature (1°C /min):	-	+54 °C to +65 °C	+54 °C to +65 °C
VdS - No.:	G 204060	G 204059	G 204058

General technical data:

Rated voltage:	19 V DC
Storage temperature:	-25°C to +75°C
Type of protection:	IP 42
Material:	ABS
Colour:	white, similar RAL 9010
Weight:	approx. 110 g
Dimensions w/o base (Ø x H):	117 x 49 mm
Dimensions base included (Ø x H):	117 x 62 mm

Ordering data:

	Part No.
(O) Optical detector IQ8Quad	802371
(TD) Rate-of-rise detector IQ8Quad	802271
(TM) Fixed heat detector IQ8Quad	802171
Standard detector base	805590
Detector base with relay contact	805591
Flush mount housing for detector base	805571
Label plate for detector base	805576
IP protection for detector base	805570

Further information is provided in our fire alarm catalogue.