IQ8Quad Ex (i) Explosion-proof series

117

62

Fire detector with base
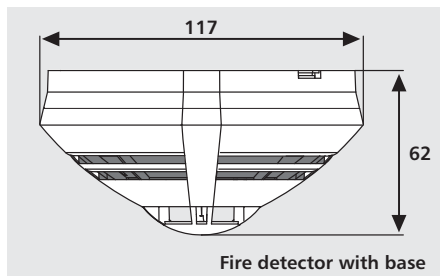
Technical Data

General detector data according to ATEX:

Max. Input voltage (U_i)	21 V
Max. Input current (I_i)	252 mA
Max. Output current (I_o)	10 mA
Max. internal capacity (C_i)	1nF
Ambient temperature (T_a)	-20°C ... +70°C
Examination Certificate	TÜV 09 ATEX 554910
Category	II 2G (with Ex-Barrier Part No. 804744 or 764744)
Explosion protection	Ex ib IIC T4

General detector data:

Operating voltage	8 ... 21 V DC
Alarm current @ 9 V DC	ca. 18 mA
Air speed	0 ... 25,4 m/s
Storage temperature	-25 °C ... +75 °C
Air humidity	max. 95% humidity (without condensation)
Type of protection	IP 43 (with base + option)
Material	ABS
Color	white, similar RAL 9010
Weight	approx. 110 g
Dimensions	Ø: 117 mm; H: 49 mm (incl. base 62 mm)

Additional detectors for the explosion zones can be found in the chapters Manual Call Points and Special Detectors. Detailed information about installation and operation can be found in the documentation article no. 798920.

All of the following IQ8Quad explosion-proof fire detectors must be operated with the 805590 base. In the case of operation in standard zones, no individual addressing is possible!

For usage in Zone 1 and Zone 2 in case of operation
- with individual addressing the Ex-barrier part no. 804744,
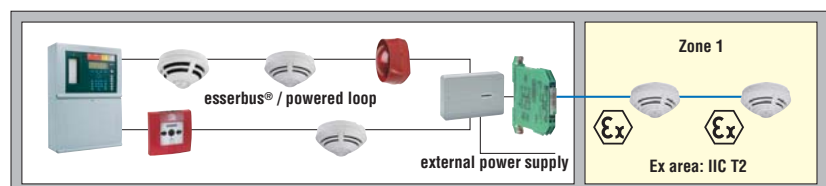- in conventional zones the Ex-barrier part no. 764744
must be used!

The Ex-barrier separates intrinsically safe and non-intrinsically safe circuits before the explosion prone area to be monitored (explosion zone).

The detector base is not included with the delivery of the detectors.

Individual addressable operating

esserbus / powered loop

Zone 1

Ex area: IIC T2
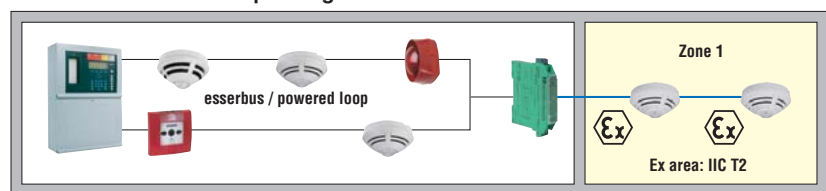
Ex-Barier (Part No. 804744)

Conventional operating

esserbus® / powered loop

external power supply

Zone 1

Ex area: IIC T2

Ex-Barier (Part No. 764744)   **esserbus transponder 4 zone / 2 relay**

Application example

803271.EX ||||||||||||||||||||||| **IQ8Quad Rate-of-rise Detector Ex (i)**

VdS **G 209223**

Automatic heat detector with quick semiconductor sensor for the reliable recognition of fires with fast rate of temperature rise as well as integrated fixed temperature heat function for the recognition of fires with slow temperature rise. Intelligent fire detector with decentralized intelligence, automatic function self-test, emergency mode, storage of alarm and operating data, alarm display. Soft addressing and separate operational display is only possible when operating an esserbus / esserbus-PLus IQ8Quad detector without loop isolator, especially for usage in explosion zones. Operation with individual addressing at Ex-Barrier 804744 and as standard detector at Ex-Barrier 764744.

Technical Data

Quiescent current @ 19 V DC	ca. 40 µA
Area to be monitored	max. 30 m²
Height to be monitored	max. 7.5 m
Ambient temperature (Ta)	-20 °C ... 50 °C
Detector specification	EN 54-5 A1R : 2002

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

Accessories

805590   Standard detector base for IQ8Quad

803371.EX ||||||||||||||||||||||| **IQ8Quad Optical Smoke Detector Ex (i)**

VdS **G 209224**

Scattered-light smoke detector for reliable early recognition of fires. Intelligent fire detector with decentralized intelligence, automatic function self-test, emergency mode, storage of alarm and operating data, alarm display. Soft addressing and separate operational display is only possible when operating an esserbus / esserbus-PLus IQ8Quad detector without loop isolator, especially for usage in explosion zones. Operation with individual addressing at Ex-Barrier 804744 and as standard detector at Ex-Barrier 764744.

Technical Data

Quiescent current @ 19 V DC	approx. 50 µA
Area to be monitored	max. 110m²
Height to be monitored	max. 12 m
Ambient temperature (Ta)	-20 °C ... 70 °C
Detector specification	EN 54-7 : 2006

Accessories

805590   Standard detector base for IQ8Quad