

## Optical smoke detector Ex (i) IQ8Quad FM without isolator



**Part-No.: 803371.EX.IN**

**Approval: VdS, FM**

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.

### Common technical data

|                             |                                       |
|-----------------------------|---------------------------------------|
| Operating voltage           | 8 ... 42 V DC                         |
| Quiescent current @ 19 V DC | 50 µA                                 |
| Alarm current @ 9 V DC      | 18 mA                                 |
| Area to be monitored        | 110 m <sup>2</sup>                    |
| Height to be monitored      | 12 m                                  |
| Air velocity                | 0 m/s ... 25.4 m/s                    |
| Application temperature     | -20 °C ... 70 °C                      |
| Storage temperature         | -24 °C ... 75 °C                      |
| Air humidity                | < 95 %                                |
| Type of protection          | IP 43 (incl. base + option)           |
| Material                    | PC / ABS                              |
| Color                       | white, similar to RAL 9010            |
| Weight                      | approx. 110 g                         |
| Detector specification      | EN 54-7 : 2006                        |
| Dimensions                  | Ø: 117 mm H: 49 mm (62 mm incl. base) |
| Declaration of Performance  | DoP-20914130701                       |



Intrinsically safe fire detection equipment is defined as "equipment and wiring which is incapable of releasing sufficient electrical or thermal energy under normal or abnormal conditions to cause ignition of a specific hazardous atmosphere mixture in its most easily ignited concentration". This basically means that intrinsically safe equipment and wiring operates using electrical and thermal energy below the level that would be required to spark an explosion in a hazardous area such as an oil refinery, Oil Rigs/Platforms, FPSO's. Fully addressable devices for installation in hazardous areas with direct connection of the Ex barrier (Part No. 804744) on the loop, without spending a loop address for the connection via a transponder as in case of the conventional connection. Additional detectors for the explosion zones can be found in the chapters manual call points and special detectors. All of the following FM approved IQ8Quad intrinsically safe fire detectors must be operated with the Part No. 805590.IN 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).



Without detector base

### Accessories:

805590.IN

Standard detector base for IQ8Quad FM