



## Industrial Detectors

### Optical Detection - UniVario IR Flame Detector, Ex

#### UniVario FMX5000 IR 3GD



#### Part no.: 909481

Triple IR flame detector for the detection of typical fires. Including 3 channel optic test monitoring all functionalities of detector. ATEX-approved for category 3, Gas and Dust, suitable for use in Ex zones 2 and 22. The detector must not be connected with a safety barrier and a blue fire alarm cable. Designed for use in rough industrial environments. Equipped for operation as a conventional detector. Expansion to a detector with Loop AP protocol via KMX5000 AP communication module. New unit optics.

#### Technical specifications

|                                 |   |
|---------------------------------|---|
| Detection method                | 3 IR Sensors                                      |
| Sensitivity class               | adjustable x (50 m (164 ft))<br>1, 2, 3           |
| Viewing angle                   | 90°   |
| Operating voltage               | 7.6 V - 30 V DC                                   |
| Quiescent current               | 2.3 mA  |
| Alarm current                   | approx. 15 mA                                     |
| Alarm indication                | 1 LED red   |
| Fault indication current        | approx. 15 mA                                     |
| Fault indication                | 1 LED yellow                                      |
| Operating temperature           | -20 °C to +80 °C<br>(-4 °F to +176 °F)            |
| IP rating (EN 60529)            | IP 66/67  |
| Enclosure material              | Diecast aluminum                                  |
| Relative humidity (IEC 721-3-3) | max. 95%<br>no condensation                       |
| Specification according to      | EN 54 Part 10                                     |
| Weight                          | 820 g (1.8 lbs)                                   |
| Dimensions                      | 100 x 50 mm (dia. x H)<br>3.9 x 2 inch (dia. x H) |

#### Product features

- High degree of immunity against false alarms, e.g. from hot surfaces or sunlight
- A microcontroller monitors the functionality and analyses the recorded data. Faults can be indicated on the detector or on a separate line
- Service interface, history memory
- Connection of remote indicator possible
- 3-channel optic test
- For use in Ex zones 2 and 22, ATEX category 3 Gas/Dust

#### Optional accessories

|                                    |        |
|------------------------------------|--------|
| Parallel indicator LMX5000         | 908499 |
| KMX5000 AP communication module    | 905883 |
| Weather protection MX5000 complete | 910134 |
| Relais module KMX5000 RK 3GD       | 925999 |

#### Not included in delivery

|                                    |        |
|------------------------------------|--------|
| UniVario base                      |        |
| Bracket MX5000                     | 904757 |
| Terminating resistor 1.8 K / 0.5 W | 675235 |

#### Approvals / marking

Type examination certificate: BVS 11 ATEX E135  
Ex conformity Russia in acc. with TP TC 012/2011  
Ex approval in acc. with NEC 500/505

#### Connection / mounting

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Connection cable standard detector | 2-wire                            |
| Additional fault line connection   | 2-wire                            |
| External indication                | 2-wire                            |
| Recommended cable                  | JY (St) Y 2x2x0.8 mm (0.03 inch)  |
| Conductor cross-section            | max. 2.5 mm <sup>2</sup> (AWG 13) |

| Brand   | Designation                          | Order no. | Approvals / marking |
|---------|--------------------------------------|-----------|---------------------|
| Minimax | FMX5000 IR 3GD MX                    | 924418    |                     |
|         | FMX5000 IR 3GD MX SF (silicone-free) | 924419    |                     |
| Viking  | FMX5000 IR 3GD VK                    | 924420    |                     |
|         | FMX5000 IR 3GD VK SF (silicone-free) | 924421    |                     |