



## Industrial Detectors

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

#### FMX5000 IR Ex ST



#### Product features

- Stainless steel version
- 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
- 3-channel optic test
- For use in Ex zones 0, 1, 2, 20, 21 and 22, ATEX category 1, 2, 3 Gas/1, 2, 3 Dust

#### Technical specifications

Detection method	3 IR Sensors
Sensitivity class	adjustable x (50 m (164 ft)) 1, 2, 3
Viewing angle	90°
Operating voltage	7.6 V - 30 V DC
Quiescent current	4.5 mA
Alarm current	approx. 15 mA
Alarm indication	1 LED red
Fault indication current	approx. 15 mA
Fault indication	1 LED yellow
Operating temperature	-25 °C to +80 °C (-13 °F to +176 °F)
IP rating (EN 60529)	IP 66/67
Enclosure material	Stainless steel (saltwater-proof)
Relative humidity (IEC 721-3-3)	max. 95% no condensation
Specification according to	EN 54 Part 10
Weight	1000 g (2.2 lbs)
Dimensions	130 x 50 mm (dia. x H) 5.1 x 2 inch (dia. x H)
Performance Level acc. to ISO 13849	d

#### Part no.: 916255

Triple IR flame detector for the detection of typical fires. Including 3-channel optic test monitoring all functionalities of detector. ATEX and IECEx approved for category 1, 2, 3 Gas and 1, 2, 3 Dust, suitable for use in Ex zones 0, 1, 2, 20, 21 and 22. The detectors must be connected via safety barrier. Designed for use in tough industrial environments and Off-shore applications. Equipped for operation as a conventional detector. Extension to a detector with Loop AP protocol via the KMX5000 AP Ex communication module.

#### Optional accessories

Safety barrier IS conventional 9 V	923991
Safety barrier IS addressable 24 V	901324
KMX5000 AP Ex communication module	912086
Weather protection MX5000 complete	910134
Silicone-free design	

#### Not included in delivery

Base UniVario MX5000 ST	916173
Mounting bracket MX5000 ST	914914
Terminating resistor 1.8 K / 0.5 W	675235

#### Connection / mounting

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

#### Note

The Safety barriers mentioned above are "ib"-equipment and not suitable for use in Ex zone 0.

#### Approvals / marking

Type examination certificate:	BVS 12 ATEX E 088
IECEx conformity:	IECEx BVS 12.0056



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0786-CPR-20784

