



Industrial Detectors

Optical Detection - UniVario IR Flame Detector, Ex

FMX5000 IR Ex



Part no.: 911674

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 2 Gas and 1, 2 Dust, suitable for use in Ex zones 1, 2, 20, 21 and 22. The detectors must be connected via a safety barrier. Designed for use in tough industrial environments. Equipped for operation as a conventional detector. Extension to a detector with Loop AP protocol via the KMX5000 AP Ex. communication module.

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 1, 2, 20, 21 and 22, ATEX category 2 Gas/1, 2 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	Diecast aluminum
Relative humidity (IEC 721-3-3)	max. 95% no condensation
Specification according to	EN 54 Part 10
Weight	860 g (1.9 lbs)
Dimensions	100 x 50 mm (dia. x H) 3.9 x 2 inch (dia. x H)
Performance Level acc. to ISO 13849	d

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

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

Connection / mounting

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

Approvals / marking

Type examination certificate: BVS 12 ATEX E088
 IECEx conformity: IECEx BVS 12.0056
 Ex conformity Russia in acc. with TP TC 012/2011
 Ex approval in acc. with NEC 500/505



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