Industrial Detectors

Thermal Detection - UniVario Heat Detector, Ex

WMX5000 Ex

Part no.: 912117

The WMX5000 Ex heat detectors are ATEX and IECEx approved for category 2 gas and 1, 2 dust, and are suitable for use in Ex zones 1, 2, 20, 21 and 22. They are designed to detect open fires with rapid rise of temperature, e.g.:

- Flammable liquids and gases
- Highly flammable plastics

They are designed specifically for operation in dirty industrial environments, both indoors and outdoors. In addition to stated temperature detection, rapid rises in temperature can also be registered by the rate-of-rise method, for early fire detection. Equipped for operation as a conventional detector. Extension to a detector with Loop AP protocol via the KMX5000 AP Ex communication module.

Product features

- Robust stainless steel heat sensor
- Freely configurable response temperatures and classes in accordance with EN 54-5, along with rate-of-rise and static responses. Setting via DIP switches on the detector or SMX5000 service device
- Service interface, history memory
- Connection of remote indicator possible
- For use in Ex zones 1, 2, 20, 21 and 22, ATEX category 2 Gas/1, 2 Dust

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

Technical specifications

Detection method	NTC sensor
Response classes	A1, A2, B, C, indices S, R
Response temperatures	0 °C to +90 °C (+32 °F to +194 °F)
Operating voltage	7.6 V - 30 V DC
Quiescent current	approx. 2.8 mA
Alarm current consumption (without quiescent current)	approx. 15 mA
Alarm indication	1 red LED
Normal operation indication	1 green LED, flashing
Fault indication current	approx. 15 mA
Fault indication	1 yellow LED (2nd line)
Operating temperature	-25 °C to +80 °C (-13 °F to +176 °F)
IP rating (EN 60529)	IP 66/67
Enclosure material	Diecast aluminium
Relative humidity (IEC 721-3-3)	max. 95% no condensation
Specification according to	EN 54 Part 5
Weight	520 g (1.2 lbs)
Dimensions	130 x 84 mm (dia. x H) 5.1 x 3.3 inch (dia. x H)

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)
Conductor cross-section	max. 2.5 mm^2 (AWG 14)

Approvals / marking

Type examination certificate:	BVS 12 ATEX E121
IECEx conformity:	IECEx BVS 12.0074

Ex conformity Russia in acc. with TP TC 012/2011
Ex approval in acc. with NEC 500/505

VdS G 207090   CE 0786-CPR-20280   FM APPROVED

VIKING