



Industrial detectors

Thermal detection - UniVario Heat detectors, Ex

WMX5000 Ex



Product features

- Robust stainless steel heat sensor
- Freely configurable response temperatures and categories 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

Technical specifications

Detection method	NTC sensor
Response categories	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	-40 °C to +80 °C (-40 °F to +176 °F)
IP rating (EN 60529)	IP 66/67
Enclosure material	Diecast aluminum
Relative humidity	max. 95% no condensation
Specification according to	EN 54-5
Weight	520 g (1.2 lbs)
Dimensions	130 x 84 mm (dia. x H) 5.1 x 3.3 inch (dia. x H)

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.

Optional accessories

Safety barrier SBEx-9	933093
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
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 approval in acc. with NEC 500/505	



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