Industrial detectors

Thermal detection - UniVario Heat detectors, Ex

WMX5000 Ex single hole

Product features

- Robust stainless steel heat sensor, resistant against impact and vibration
- Freely configurable response temperatures and categories in accordance with EN 54-5, along with rate-of-rise and static responses. Configuration 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, D, indices S, R
Response temperatures	0 °C to +105 °C (+32 °F to +221 °F)
Operating voltage	7.6 V - 28 V DC
Quiescent current	approx. 3.0 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	580 g (1.3 lbs)
Dimensions	130 x 133 mm (dia. x H) 5.1 x 5.2 inch (dia. x H)

Part no.: 912118

The single hole mounted WMX5000 Ex heat detectors are ATEX-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 specifically suited for use in dryer and ventilation ducts for the detection of fires with rapid rise in temperature, e.g.:

- Flammable liquids and gases
- Highly flammable plastics

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
Silicone-free design	

Not included in delivery

UniVario base	
Single hole mounting fixture	800034
Single hole mounting tool	843477
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)
Line cross-section	max. 2.5 mm² (AWG 13)

Approvals / marking

Type examination certificate:	BVS 12 ATEX E121
IECEx conformity:	IECEx BVS 12.0074
Ex approval in acc. with NEC 500/505	

VdS G 207090   CE 0786-CPR-20280   FM APPROVED

Ex   IEC IECEx

Trusted above all.

VIKING