



# Industrial Detectors

## Thermal Detection - UniVario Heat Detector, Ex

### WMX5000 Ex ST



#### Product features

- Stainless steel
- 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 0, 1, 2, 20, 21 and 22, ATEX category 1, 2, 3 Gas/1, 2, 3 Dust

#### 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 - 28 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
Current indication	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	Stainless steel (saltwater-proof)
Relative humidity (IEC 721-3-3)	max. 95% no condensation
Specification according to	EN 54 Part 5
Weight	approx. 1000 g (2.2 lbs)
Dimensions	130 x 84 mm (dia. x H) 5.1 x 3.3 inch (dia. x H)

### Part no.: 916171

The WMX5000 Ex ST heat detectors are ATEX and IECEx approved for category 1, 2, 3 Gas and 1, 2, 3 Dust, and are suitable for use in Ex zones 0, 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

In addition to stated temperature detection, rapid rises in temperature can also be registered by the rate-of-rise method, for early fire detection.

The detectors must be connected via a 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
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 121
IECEx conformity:	IECEx BVS 12.0074



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