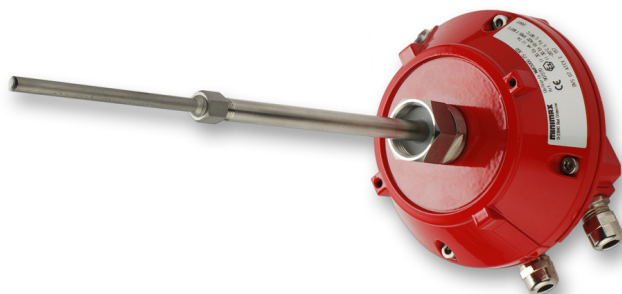# Industrial detectors

Thermal detection - UniVario High temperature heat detector FS, Ex

WMX5000 FS Ex 400°C

Part no.: 912108

The WMX5000 FS Ex high temperature heat detectors are ATEX- and IEC approved for category 2 gas and 1, 2 dust, and are suitable for use in Ex zones 1, 2, 20, 21 and 22. They have been specially designed for operation in industrial environments with aggressive media and very high application temperatures in the monitoring area. For example in exhaust ducts, engine test stands or machine tools. 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 rod sensor
- 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 3 Gas/1, 2 Dust

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	843474
Terminating resistor 1.8 K / 0.5 W	675235

Technical specifications

Detection method	PT1000 sensor
Response categories	A1, A2, B, C, D, E, F, G, indices S, R
Response temperatures	0 °C to +400 °C (+32 °F to +752 °F)
Operating voltage	7.6 V - 28 V DC
Quiescent current	approx. 2.8 mA
Alarm current consumption	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 to 1600 g (1.2 to 3.5 lbs)
Dimensions	130 x 150 - 130 x 1500 mm (dia. x H) 5.1 x 5.9 - 5.1 x 59.1 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 13)

Note

The desired length of the sensor rod must be specified in millimeters at the time of placing the order. Alternatively, fixed standard rod lengths are available to choose from.

Approvals / marking

Type examination certificate:	BVS 12 ATEX E120
IECEx conformity:	IECEx BVS 12.0073
Ex approval in acc. with NEC 500/505	

VdS G 207091   CE 0786-CPR-20281   FM APPROVED

Ex   IEC IECEx   nec

Trusted above all.

Viking GmbH | Industriestr. 10/12 | D-23840 Bad Oldesloe | www.viking-emea.com

VIKING
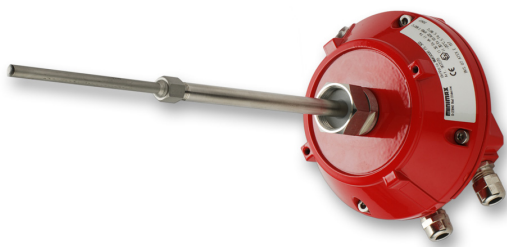
Industrial detectors

Thermal detection - UniVario High temperature heat detector FS, Ex

WMX5000 FS Ex 400 °C 200 mm (752 °F 7.9 inch)

With fixed rod length of 200 mm (7.9 inch)

Technical specifications

Response temperatures	0 °C to +400 °C (+32 °F to +752 °F)
Weight	680 g (1.5 lbs)
Dimensions	130 x 260 mm (dia. x H) 5.1 x 10.2 inch (dia. x H)

Part no.: 912110

Otherwise like part no.: 912108

WMX5000 FS Ex 400 °C 400 mm (752 °F 15.8 inch)

With fixed rod length of 400 mm (15.8 inch)

Technical specifications

Response temperatures	0 °C to +400 °C (+32 °F to +752 °F)
Weight	840 g (1.9 lbs)
Dimensions	130 x 460 mm (dia. x H) 5.1 x 18.1 inch (dia. x H)

Part no.: 912111

Otherwise like part no.: 912108

WMX5000 FS Ex 400 °C 600 mm (752 °F 23.6 inch)

With fixed rod length of 600 mm (23.6 inch)

Technical specifications

Response temperatures	0 °C to +400 °C (+32 °F to +752 °F)
Weight	1000 g (2.2 lbs)
Dimensions	130 x 660 mm (dia. x H) 5.1 x 26 inch (dia. x H)

Part no.: 912112

Otherwise like part no.: 912108

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