Industrial detectors

Thermal detection - UniVario High temperature heat detector FS Flex, Ex

WMX5000 FS Flex Ex 400°C

Part no.: 912113

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. Designed for operation as a conventional detector. Expansion to a detector with Loop AP protocol via the KMX5000 AP Ex communications module.

Product features

- Robust flexible stainless steel heat 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
- For use in Ex zones 1, 2, 20, 21 and 22, Atex category 2, 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
Holder WMX FS, from

250 °C (482 °F) to 600 °C (1112 °F)	894679
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 mm² (AWG 13)

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 - 1600 g (1.2 - 7.5 lbs)
Dimensions	130 x 2000 - 130 x 9000 mm (dia. x H) 5.1 x 78.7 - 5.1 x 354.3 inch (dia. x H)

Note

The desired length of the flexible sensor must be specified in meters at the time of placing the order. The sensor rod holder is designed for operation temperatures of up to 250 °C (482 °F). For higher operation temperatures, the WMX FS holder from 250 °C (482 °F) to 600 °C (1112 °F) part no. 894679 is to be used.

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

Trusted above all.

VIKING
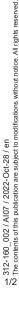
Industrial detectors

Thermal detection - UniVario High temperature heat detector FS Flex, Ex

WMX5000 FS Flex Ex 400 °C 2 m (752 °F 79 inch)

Version with flexible hose of 2 m length (79 inch)

Part no.: 912114

Otherwise like part no.: 912113

Technical specifications

Response temperatures	0 °C to +400 °C (+32 °F to +752 °F)
Weight	680 g (1.5 lbs)
Dimensions	130 x up to 2000 mm (dia. x H) 5.1 x up to 78.73 inch (dia. x H)

WMX5000 FS Flex Ex 400 °C 6 m (752 °F 236 inch)

Version with flexible hose of 6 m length (236 inch)

Part no.: 912115

Otherwise like part no.: 912113

Technical specifications

Response temperatures	0 °C to +400 °C (+32 °F to +752 °F)
Weight	840 g (1.9 lbs)
Dimensions	130 x up to 6000 mm (dia. x H) 5.1 x up to 236.2 inch (dia. x H)

WMX5000 FS Flex Ex 400 °C 9 m (752 °F 354 inch)

Version with flexible hose of 9 m length (354 inch)

Part no.: 912116

Otherwise like part no.: 912113

Technical specifications

Response temperatures	0 °C to +400 °C (+32 °F to +752 °F)
Weight	1000 g (2.2 lbs)
Dimensions	130 x up to 9000 mm (dia. x H) 5.1 x up to 354.3 inch (dia. x H)

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