## Industrial detectors

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

### WMX5000 FS Ex 400°C



### **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

## **Technical specifications**

Detection methodPT1000 sensorResponse categoriesA1, A2, B, C, D, E, F, G, indices S, RResponse temperatures0 °C to +400 °C (+32 °F to +752 °F)Operating voltage7.6 V - 28 V DCQuiescent currentapprox. 2.8 mAAlarm current consumptionapprox. 15 mAAlarm indication1 green LED, flashingFault indication currentapprox. 15 mAFault indication currentapprox. 15 mAFault indication1 yellow LED (2nd line)Operating temperature-40 °C to +80 °C (-40 °F to +176 °F)IP rating (EN 60529)IP 66/67Enclosure materialDiecast aluminumRelative humiditymax. 95% no condensationSpecification according toEN 54-5Weight520 to 1600 g (1.2 to 3.5 lbs)Dimensions130 x 150 - 130 x 1500 mm (dia. x H)	•	
Response categories  Response temperatures  O °C to +400 °C (+32 °F to +752 °F)  Operating voltage  Quiescent current  Alarm current consumption  Alarm indication  1 red LED  Normal operation indication  Fault indication current  Fault indication  Operating temperature  IP rating (EN 60529)  Enclosure material  Relative humidity  Specification according to  Weight  N°C to +400°C (-40°F to +176°F)  IP rating (EN 60529)  Enclosure material  Discast aluminum  Fault indication  Specification according to  EN 54-5  Dimensions  Indices S, R  0 °C to +400°C (+32°F to +752°F)  Approx. 2.8 mA  Alarm current  approx. 15 mA  1 yellow LED (2nd line)  -40°C to +80°C (-40°F to +176°F)  IP 66/67  Diecast aluminum  Fault indication  Specification according to  EN 54-5  S20 to 1600 g (1.2 to 3.5 lbs)	Detection method	PT1000 sensor
Response temperatures  (+32 °F to +752 °F)  Operating voltage  7.6 V - 28 V DC  Quiescent current  Alarm current consumption  Alarm indication  1 red LED  Normal operation indication  Fault indication current  Fault indication  1 yellow LED (2nd line)  Operating temperature  1 yellow LED (2nd line)  -40 °C to +80 °C (-40 °F to +176 °F)  IP rating (EN 60529)  Enclosure material  Relative humidity  Relative humidity  Specification according to  Weight  130 x 150 - 130 x 1500 mm (dia. x H)	Response categories	
Quiescent current approx. 2.8 mA  Alarm current consumption approx. 15 mA  Alarm indication 1 red LED  Normal operation indication approx. 15 mA  Fault indication current approx. 15 mA  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)	Response temperatures	0 0 10 100 0
Alarm current consumption  Alarm indication  Alarm indication  1 red LED  Normal operation indication  Fault indication current  Fault indication  Operating temperature  IP rating (EN 60529)  Enclosure material  Relative humidity  Specification according to  Weight  Alarm current approx. 15 mA  1 green LED, flashing  1 yellow LED (2nd line)  -40 °C to +80 °C  (-40 °F to +176 °F)  IP 66/67  Diecast aluminum  max. 95%  no condensation  Specification according to  EN 54-5  Weight  130 x 150 - 130 x 1500 mm (dia. x H)	Operating voltage	7.6 V - 28 V DC
Alarm indication  Normal operation indication  Fault indication current  Fault indication  Operating temperature  IP rating (EN 60529)  Enclosure material  Relative humidity  Specification according to  Weight  1 red LED  1 green LED, flashing  1 yellow LED (2nd line)  -40 °C to +80 °C  (-40 °F to +176 °F)  IP 66/67  Diecast aluminum  max. 95% no condensation  Specification according to  EN 54-5  Weight  130 x 150 - 130 x 1500 mm (dia. x H)	Quiescent current	approx. 2.8 mA
Normal operation indication  Fault indication current  Fault indication  Operating temperature  IP rating (EN 60529)  Enclosure material  Relative humidity  Specification according to  Weight  Normal operation indication  1 green LED, flashing  approx. 15 mA  1 yellow LED (2nd line)  -40 °C to +80 °C  (-40 °F to +176 °F)  IP 66/67  Diecast aluminum  max. 95% no condensation  Specification according to  EN 54-5  Weight  130 x 150 - 130 x 1500 mm (dia. x H)	Alarm current consumption	approx. 15 mA
Fault indication current  Fault indication  1 yellow LED (2nd line)  Operating temperature  Operating (EN 60529)  IP rating (EN 60529)  Enclosure material  Relative humidity  Specification according to  Weight  Dimensions  1 yellow LED (2nd line)  -40 °C to +80 °C (-40 °F to +176 °F)  IP 66/67  Diecast aluminum  max. 95% no condensation  EN 54-5  Weight  520 to 1600 g (1.2 to 3.5 lbs)	Alarm indication	1 red LED
Fault indication  1 yellow LED (2nd line)  -40 °C to +80 °C (-40 °F to +176 °F)  IP rating (EN 60529)  IP 66/67  Enclosure material  Relative humidity  Relative humidity  Specification according to  Weight  Dimensions  1 yellow LED (2nd line)  -40 °C to +80 °C (-40 °F to +176 °F)  IP 66/67  Diecast aluminum  max. 95% no condensation  Specification according to  EN 54-5  Weight  130 x 150 - 130 x 1500 mm (dia. x H)	Normal operation indication	1 green LED, flashing
Operating temperature  -40 °C to +80 °C (-40 °F to +176 °F)  IP rating (EN 60529)  Enclosure material  Relative humidity  Specification according to  Weight  Dimensions  -40 °C to +80 °C (-40 °F to +176 °F)  IP 66/67  Diecast aluminum  max. 95% no condensation  EN 54-5  Weight  520 to 1600 g (1.2 to 3.5 lbs)	Fault indication current	approx. 15 mA
Operating temperature  (-40 °F to +176 °F)  IP rating (EN 60529)  Enclosure material  Relative humidity  Specification according to  Weight  Dimensions  (-40 °F to +176 °F)  IP 66/67  Diecast aluminum  max. 95% no condensation  EN 54-5  Weight  520 to 1600 g (1.2 to 3.5 lbs)	Fault indication	1 yellow LED (2nd line)
Enclosure material  Relative humidity  Specification according to  Weight  Dimensions  Diecast aluminum  max. 95% no condensation  EN 54-5  Veight  520 to 1600 g (1.2 to 3.5 lbs)  130 x 150 - 130 x 1500 mm (dia. x H)	Operating temperature	
Relative humidity  Relative humidity  Specification according to  Weight  Solution 130 x 150 - 130 x 1500 mm (dia. x H)  The solution is max. 95% no condensation  EN 54-5  EN 54-5  130 x 150 - 130 x 1500 mm (dia. x H)	IP rating (EN 60529)	IP 66/67
Relative humidity  Specification according to  Weight  Dimensions  Relative humidity  no condensation  EN 54-5  EN 54-5  Weight  520 to 1600 g (1.2 to 3.5 lbs)  130 x 150 - 130 x 1500 mm (dia. x H)	Enclosure material	Diecast aluminum
Weight 520 to 1600 g (1.2 to 3.5 lbs)  Dimensions 130 x 150 - 130 x 1500 mm (dia. x H)	Relative humidity	1116711 0070
Dimensions 130 x 150 - 130 x 1500 mm (dia. x H)	Specification according to	EN 54-5
L JIMANSIONS	Weight	520 to 1600 g (1.2 to 3.5 lbs)
5.1 x 5.9 - 5.1 x 59.1 inch (dia. x H)	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)

#### 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.

## **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

## **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 m	m (0.03 inch)
Conductor cross-section	max. 2.5 m	m <sup>2</sup> (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



G 20709



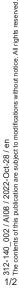
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## **Industrial detectors**

# 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)

# Part no.: 912110

Otherwise like part no.: 912108

## **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)

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

With fixed rod length of 400 mm (15.8 inch)

## Part no.: 912111

Otherwise like part no.: 912108

## **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)

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

With fixed rod length of 600 mm (23.6 inch)

## Part no.: 912112

Otherwise like part no.: 912108

# **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)

