Industrial detectors

Thermal detection - UniVario Heat detectors

WMX5000

Product features

- Robust stainless steel heat sensor, resistant against impact and vibration

- Freely configurable response temperatures and classes in accordance with EN 54-5, along with rate-of-rise and static responses. Configuration via DIP switches on the detector

- Service interface, history memory

- Connection of remote indicator possible

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 - 30 V DC
Quiescent current	approx. 0.15 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 67
Enclosure material	Diecast aluminum
Relative humidity	max. 95% no condensation
Specification according to	EN 54 Part 5
Weight	520 g (1.2 lbs)
Dimensions	130 x 84 mm (dia.xH) 5.1 x 3.3 inch (dia.xH)

Part no.: 905441

The WMX5000 heat detectors are designed to detect open fires with rapid rise of temperature, e.g.:
- Flammable liquids and gases
- Highly flammable plastics

They are designed specifically for operation in polluted industrial environments, both indoors and outdoors. In addition to static 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 KMX5000 AP communication module.

Optional accessories

Remote indicator	908499
Weather protection MX5000 complete	910134
KMX5000 AP communication module	905883
Relay module KMX5000 RK	906361

Not included in delivery

UniVario base

Bracket MX5000	904757
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	JY (St) Y 2x2x0.8 mm (0.03 inch)
Conductor cross-section	max. 2.5 mm^2 (AWG 13)

Brand	Designation	Order no.	Approvals / marking
Minimax	WMX5000 MX	928309	**VdS** G 207090 CE 0786-CPR-20280 FM APPROVED c(TP)RU SBSC INTYGAD PRODUKT
	WMX5000 MX SF (silicone-free)	928310	

minimax

Industrial detectors

Thermal detection - UniVario Heat detectors

WMX5000 CN

Version China
Technical specifications see part no. 905441

Part no.: 909375

Approvals / marking

CCC

Industrial detectors

Thermal detection - UniVario Heat detectors

UniVario WMX5000 single hole

Part no.: 905847

The single hole mounted WMX5000 heat detectors are specifically designed 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 fixed 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 KMX5000 AP communication module.

Technical specifications

Detection method	NTC sensor
Response classes	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 - 30 V DC
Quiescent current	approx. 0.15 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 Part 5
Weight	580 g (1.3 lbs)
Dimensions	130 x 133 mm (dia. x H) 5.1 x 5.2 inch (dia. x H)

Product features

- Robust stainless steel heat sensor, resistant to impact and vibration

- Freely configurable response temperatures and classes in accordance with EN 54-5, along with rate-of-rise and static responses. Configuration via DIP switches on the detector

- Service interface, history memory

- Connection of remote indicator possible

Optional accessories

Remote indicator	908499
Weather protection MX5000 complete	910134
KMX5000 AP communication module	905883
Relay module KMX5000 RK	906361
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	JY (St) Y 2x2x0.8 mm (0.03 inch)
Conductor cross-section	max. 2.5 mm^2 (AWG 13)

Brand	Designation	Order no.	Approvals / marking
Minimax	WMX5000 single hole MX	928371	VdS G 207090 CE 0786-CPR-20280 FM APPROVED RU
	WMX5000 single hole MX SF (silicone-free)	928372	

minimax

Industrial detectors

Thermal detection - UniVario Heat detectors

WMX5000 single hole CN

Version China
Technical specification see part no. 905847

Part no.: 909376

Approvals / marking

CCC

Industrial detectors

Thermal detection - UniVario Heat detectors, Ex

WMX5000 3GD

Product features

- 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 2 and 22, ATEX category 3 Gas/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 - 30 V DC
Quiescent current	approx. 0.15 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 Part 5
Weight	520 g (1.2 lbs)
Dimensions	130 x 84 mm (dia.xH) 5.1 x 3.3 inch (dia.xH)

Part no.: 907268

The WMX5000 3GD heat detectors are ATEX-approved for category 3, gas and dust, and are suitable for use in Ex zones 2 and 22. They are designed to detect open fires with rapid rise of temperature, e.g.:

- Flammable liquids and gases
- Highly flammable plastics

They are designed specifically for operation in dirty industrial environments, both indoors and outdoors. 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 communication module.

Optional accessories

Remote indicator	908499
KMX5000 AP communication module	905883
Relay module KMX5000 RK 3GD	925999

Not included in delivery

UniVario base	
Bracket MX5000	904757
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	JY (St) Y 2x2x0.8 mm (0.03 inch)
Conductor cross-section	max. 2.5 mm^2 (AWG 13)

Approvals / marking

Type examination certificate: BVS 07 ATEX E 156
Ex conformity Russia in acc. with TP TC 012/2011
Ex approval in acc. with NEC 500/505

Brand	Designation	Order no.	Approvals / marking
Minimax	WMX5000 3GD MX	928444	VdS G 207090 CE 0786-CPR-20280 FM APPROVED TP RU nec
	WMX5000 3GD MX SF (silicone-free)	928445	⟨Ex⟩ Ex

Industrial detectors

Thermal detection - UniVario Heat detectors, Ex

WMX5000 3GD single hole

Product features

- Robust stainless steel heat sensor, resistant against impact and vibration
- Freely configurable response temperatures and classes 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 2 and 22, ATEX category 3, Gas/Dust

Technical specifications

Detection method	NTC sensor
Response classes	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 - 30 V DC
Quiescent current	approx. 0.15 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 (saltwater-proof)
Relative humidity	max. 95%, no condensation
Specification according to	EN 54 Part 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.: 907269

The single hole mounted WMX5000 3GD heat detectors are ATEX-approved for category 3, gas and dust, and are suitable for use in Ex zones 2 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 communication module.

Optional accessories

Remote indicator	908499
KMX5000 AP communication module	905883
Relay module KMX5000 RK 3GD	925999
Weather protection MX5000 complete	910134

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	JY (St) Y 2x2x0.8 mm (0.03 inch)
Line cross-section	max. 2.5 mm^2 (AWG 13)

Approvals / marking

Type examination certificate: BVS 07 ATEX E 156
Ex conformity Russia in acc. with TP TC 012/2011 (Minimax)
Ex approval in acc. with NEC 500/505

Brand	Designation	Order no.	Approvals / marking
Minimax	WMX5000 3GD single hole MX	928388	VdS G 207090 CE 0786-CPR-20280 FM APPROVED TP RU nfc
	WMX5000 3GD single hole MX SF (silicone-free)	928385	Ex Ex

Industrial detectors

Thermal detection - UniVario Heat detectors, Ex

WMX5000 Ex

Part no.: 912117

The WMX5000 Ex heat detectors are ATEX and IECEx 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 designed to detect open fires with rapid rise of temperature, e.g.:

- Flammable liquids and gases
- Highly flammable plastics

They are designed specifically for operation in dirty industrial environments, both indoors and outdoors. 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 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 1, 2, 20, 21 and 22, ATEX category 2 Gas/1, 2 Dust

Optional accessories

Safety barrier IS conventional 9 V	923991
Safety barrier IS addressable 24 V	901324
KMX5000 AP Ex communication module	912086
Weather protection MX5000 complete	910134
Silicone-free design	

Not included in delivery

UniVario base	
Bracket MX5000	904757
Terminating resistor 1.8 K / 0.5 W	675235

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 - 30 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
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 Part 5
Weight	520 g (1.2 lbs)
Dimensions	130 x 84 mm (dia. x H) 5.1 x 3.3 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 14)

Approvals / marking

Type examination certificate: BVS 12 ATEX E121
IECEx conformity: IECEx BVS 12.0074
Ex conformity Russia in acc. with TP TC 012/2011
Ex approval in acc. with NEC 500/505

VdS G 207090   CE 0786-CPR-20280   FM APPROVED

Industrial detectors

Thermal detection - UniVario Heat detectors, Ex

WMX5000 Ex single hole

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.

Product features

- Robust stainless steel heat sensor, resistant against impact and vibration
- Freely configurable response temperatures and classes 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

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

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 mm^2 (AWG 13)

Approvals / marking

Type examination certificate:	BVS 12 ATEX E121
IECEx conformity:	IECEx BVS 12.0074

Ex conformity Russia in acc. with TP TC 012/2011
Ex approval in acc. with NEC 500/505

VdS G 207090   **CE** 0786-CPR-20280   **FM** APPROVED

Technical specifications

Detection method	NTC sensor
Response classes	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 Part 5
Weight	580 g (1.3 lbs)
Dimensions	130 x 133 mm (dia. x H) 5.1 x 5.2 inch (dia. x H)

Industrial detectors

Thermal detection - UniVario High temperature heat detector FS

WMX5000 FS 400°C (752 °F)

Part no.: 905505

The WMX5000 FS high temperature heat detectors 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 fixed 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 KMX5000 AP communication module.

Product features

- Robust stainless steel heat rod sensor
- Freely configurable response temperatures and classes in accordance with EN 54-5, along with rate-of-rise and static responses. Configuration via DIP switches on the detector
- Service interface, history memory
- Connection of remote indicator possible

Technical specifications

Detection method	PT1000 sensor
Response classes	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 - 30 V DC
Quiescent current	approx. 0.25 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 Part 5
Sensor rod	150 - 1500 mm 5.1 - 59.1 inch (dia.xH)
Weight	520 - 1600 g (1.2 - 3.5 lbs)
Dimensions	130 x 210 - 130 x 1560 mm 5.1 x 83 - 5.1 x 61.4 inch (dia.xH)

Optional accessories

Remote indicator	908499
KMX5000 AP communication module	905883
Relay module KMX5000 RK	906361
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	JY (St) Y 2x2x0.8 mm (0.03 inch)
Conductor cross-section	max. 2.5 mm^2 (AWG 13)

Note

Deviating from the defined standard lengths, the sensor rod can be ordered in lengths of 150 - 1500 mm, see ordering table page 2/2.

WMX5000 FS 400 °C (752 °F) CN

Version China
Otherwise like part no. 905505

Part no.: 909378

Approvals / marking

CCC

Industrial detectors

Thermal detection - UniVario High temperature heat detector FS

Brand	Designation	Sensor rod** (mm)	Order no.	Approvals / markings
Minimax	WMX5000 FS L200 MX	200	906401	VdS G 207091
	WMX5000 FS L200 MX SF*		927683	
	WMX5000 FS L400 MX	400	906402	CE 0786-CPR-20281
	WMX5000 FS L400 MX SF*		927700	
	WMX5000 FS L600 MX	600	906403	FM APPROVED RU
	WMX5000 FS L600 MX SF*		927709	

* silicone-free
** Variable length 150 - 1500 mm available for order. The length of the sensor rod must be specified in mm when ordering.

Industrial detectors

Thermal detection - UniVario High temperature heat detector FS

WMX5000 FS 850°C (1562 °F)

Part no.: 906454

The WMX5000 FS high temperature heat detectors 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 fixed 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 KMX5000 AP communication module.

Product features

- Robust stainless steel heat rod sensor
- Freely configurable response temperatures and classes in accordance with EN 54-5, along with rate-of-rise and static responses. Configuration via DIP switches on the detector
- Service interface, history memory
- Connection of remote indicator possible

Technical specifications

Detection method	PT100-sensor
Response classes	A1, A2, B, C, D, E, F, G, indices S, R
Response temperatures	250 °C to +840 °C (+482 °F to +1544 °F)
Operating voltage	7.6 V - 30 V DC
Quiescent current	approx. 0.35 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 Part 5
Weight	520 - 1600 g (1.2 - 3.5 lbs)
Dimensions	130 x 150 - 130 x 1500 mm (dia. x H) 5.1 x 5.9 x 59.1 inch (dia. x H)

Optional accessories

Remote indicator	908499
KMX5000 AP communication module	905883
Relay module KMX5000 RK	906361
Silicone-free design	

Not included in delivery

UniVario base	
Single hole mounting fixture	800034
Single hole mounting tool	800388
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	JY (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.
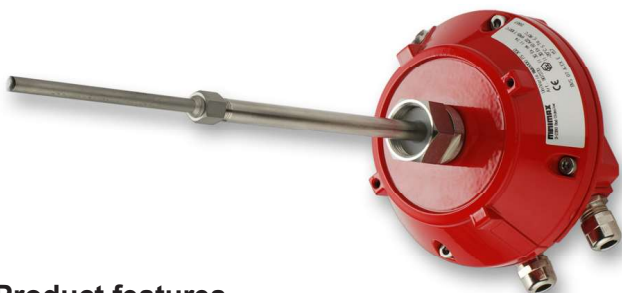
Approvals / marking

CE

minimax

Industrial detectors

Thermal detection - UniVario High temperature heat detector FS, Ex

WMX5000 FS 3GD 400°C (752 °F)

Product features

- Robust stainless steel heat rod sensor
- Freely configurable response temperatures and classes 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 2 and 22, Atex category 3, Gas/Dust

Technical specifications

Detection method	PT1000 sensor
Response classes	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 - 30 V DC
Quiescent current	approx. 0.25 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 Part 5
Sensor rod	150 - 1500 mm
Weight	520 - 1600 g (1.2 - 3.5 lbs)
Dimensions	130 x 210 - 130 x 1560 mm (dia.xH) 5.1 x 83 - 5.1 x 61.4 inch (dia.xH)

Part no.: 907270

The WMX5000 FS 3GD high temperature heat detectors are ATEX-approved for category 3, gas and dust, and are suitable for use in Ex zones 2 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 communication module.

Optional accessories

Remote indicator	908499
KMX5000 AP communication module	905883
Relay module KMX5000 RK 3GD	925999
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	JY (St) Y 2x2x0.8 mm (0.03 inch)
Conductor cross-section	max. 2.5 mm^2 (AWG 13)

Note

Deviating from the defined standard lengths, the sensor rod can be ordered in lengths of 150 - 1500 mm, see ordering table page 2/2.

Approvals / marking

Type examination certificate: BVS 07 ATEX E 157
Ex conformity Russia in acc. with TP TC 012/2011
Ex approval in acc. with NEC 500/505

WMX5000 FS 3GD CN

Version China

Otherwise like part no.: 907270

Part no.: 926358

Approvals / markings

CCC

Industrial detectors

Thermal detection - UniVario High temperature heat detector FS, Ex

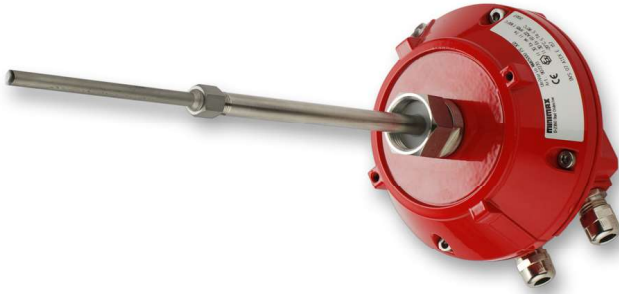| Brand	Designation	Sensor rod** (mm)	Order no.	Approvals / markings
Minimax	WMX5000 FS 3GD L200 MX	200	907281	VdS G 207091
	WMX5000 FS 3GD L200 MX SF*		927744	
	WMX5000 FS 3GD L400 MX	400	907282	CE 0786-CPR-20281
	WMX5000 FS 3GD L400 MX SF*		927747	FM APPROVED Ex Ex
	WMX5000 FS 3GD L600 MX	600	907283	
	WMX5000 FS 3GD L600 MX SF*		927751	RU nec

* silicone-free
** Variable length 150 - 1500 mm available for order. The length of the sensor rod must be specified in mm when ordering.

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 classes 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 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

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 mm (0.03 inch)
Conductor cross-section	max. 2.5 mm² (AWG 13)

Technical specifications

Detection method	PT1000 sensor
Response classes	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 Part 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)

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 conformity Russia in acc. with TP TC 012/2011
Ex approval in acc. with NEC 500/505

VdS G 207091   CE 0786-CPR-20281   FM APPROVED

Industrial detectors

Thermal detection - UniVario High temperature heat detector FS, Ex

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

Part no.: 912110

With fixed rod length of 200 mm (7.9 inch)

Technical specifications

Otherwise like part no.: 912108

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)

Part no.: 912111

With fixed rod length of 400 mm (15.8 inch)

Technical specifications

Otherwise like part no.: 912108

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)

Part no.: 912112

With fixed rod length of 600 mm (23.6 inch)

Technical specifications

Otherwise like part no.: 912108

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)

2/2

Industrial detectors

Thermal detection - UniVario High temperature heat detector FS Flex

WMX5000 FS Flex 400°C (752 °F)

Part no.: 906176

The WMX5000 FS high temperature heat detectors 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 fixed 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 KMX5000 AP communication module.

Product features

- Robust flexible stainless steel heat sensor
- Freely configurable response temperatures and classes in accordance with EN 54-5, along with rate-of-rise and static responses. Configuration via DIP switches on the detector
- Service interface, history memory
- Connection of remote indicator possible

Optional accessories

Remote indicator	908499
KMX5000 AP communication module	905883
Relay module KMX5000 RK	906361
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	JY (St) Y 2x2x0.8 mm (0.03 inch)
Conductor cross-section	max. 2.5 mm² (AWG 13)

Note

Deviating from the defined standard lengths, the flexible sensor rod can be ordered in lengths of 500 to 9000 mm, see ordering table page 2/2. The sensor rod holder is designed for application temperatures of up to 250 °C (482 °F).
In case of higher application temperatures, the holder WMX FS from 250 °C (482 °F) to 600°C (1112 °F), part no. 804679, is to be used.

Technical specifications

Detection method	PT1000 sensor
Response classes	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 - 30 V DC
Quiescent current	approx. 0.25 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 Part 5
Weight: 2000 mm 6000 mm 9000 mm	1536 g (3.39 lbs) 2315 g (5.10 lbs) 2665 g (5.88 lbs)
Dimensions	130 x 2000 - 130 x 9000 mm (dia.xH) 5.1 x 78.7 - 5.1 x 354.3 inch (dia.xH)

Industrial detectors

Thermal detection - UniVario High temperature heat detector FS Flex

Brand	Designation	flex. Sensor rod** length (mm)	Order no.	Approvals / markings
Minimax	WMX5000 FS Flex L2000 MX	2000	906404	VdS G 207091 CE 0786-CPR-20281 FM APPROVED RU
	WMX5000 FS Flex L2000 MX SF*		927975	
	WMX5000 FS Flex L6000 MX	6000	906405	
	WMX5000 FS Flex L6000 MX SF*		927978	
	WMX5000 FS Flex L9000 MX	9000	906406	
	WMX5000 FS Flex L9000 MX SF*		927981	

*   silicone-free
** Order from 500 - 9000 mm length possible. Length specification in mm required.

minimax

Industrial detectors

Thermal detection - UniVario High temperature heat detector FS Flex

WMX5000 FS Flex 850°C (1562 °F)

Product features

- Robust flexible stainless steel heat sensor
- Freely configurable response temperatures and classes in accordance with EN 54-5, along with rate-of-rise and static responses. Configuration via DIP switches on the detector
- Service interface, history memory
- Connection of remote indicator possible

Technical specifications

Detection method	PT1000 sensor
Response classes	A1, A2, B, C, D, E, F, G, indices S, R
Response temperatures	250 °C to +840 °C (+482 °F to +1544 °F)
Operating voltage	7.6 V - 30 V DC
Quiescent current	approx. 0.35 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 Part 5
Weight	520 - 1600 g (1.2 - 3.5 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)

Optional accessories

Remote indicator	908499
KMX5000 AP communication module	905883
Relay module KMX5000 RK	906361

strial

Not included in delivery

UniVario base	r
Terminating resistor 1.8 K / 0.5 W	675235 ction,

y the

Connection / mounting

Connection cable standard detector	2-wire
Additional fault line connection	2-wire
Remote indication	2-wire
Recommended cable	JY (St) Y 2x2x0.8 mm (0.03 inch)
Conductor cross-section	max. 2.5 mm^2 (AWG 13)

Note

The desired length of the flexible sensor rod must be specified in meters at the time of placing the order.

Approvals / marking

CE

Industrial detectors

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

WMX5000 FS Flex 3GD 400°C (752 °F)

Product features

- Robust flexible stainless steel heat sensor
- Freely configurable response temperatures and classes 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 2 and 22, Atex category 3, Gas/Dust

Technical specifications

Detection method	PT1000 sensor
Response classes	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 - 30 V DC
Quiescent current	approx. 0.25 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 Part 5
Weight: 2000 mm 6000 mm 9000 mm	1550 g (3.42 lbs) 2315 g (5.10 lbs) 2680 g (5.91 lbs).
Dimensions	130 x 2000 - 130 x 9000 mm (dia.xH) 5.1 x 78.7 - 5.1 x 354.3 inch (dia.xH)

WMX5000 FS Flex 3GD 400 °C (752 °F) CN

Version China

Part no.: 907284

The WMX5000 FS 3GD high temperature heat detectors are ATEX-approved for category 3, gas and dust, and are suitable for use in Ex zones 2 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 communications module.

Optional accessories

Remote indicator	908499
KMX5000 AP communication module	905883
Relay module KMX5000 RK 3GD	925999

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	JY (St) Y 2x2x0.8 mm (0.03 inch)
Conductor cross-section	max. 2.5 mm^2 (AWG 13)

Note

Deviating from the defined standard lengths, the flexible sensor can be ordered in lengths of 500 - 9000 mm, see ordering table page 2/2. 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 07 ATEX E 157
Ex conformity Russia in acc. with TP TC 012/2011
Ex approval in acc. with NEC 500/505

Part no.: 909387

Otherwise like part no.: 907284

Approvals / marking

(CCC)

Industrial detectors

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

Brand	Designation	flex. Sensor rod** length (mm)	Order no.	Approvals / marking
Minimax	WMX5000 FS Flex 3GD L2000 MX	2000	907285	VdS G 207091
	WMX5000 FS Flex 3GD L2000 MX SF*		907531	CE 0786-CPR-20281
	WMX5000 FS Flex 3GD L6000 MX	6000	907286	
	WMX5000 FS Flex 3GD L6000 MX SF*		928534	FM APPROVED, Ex, Ex, RU, nec
	WMX5000 FS Flex 3GD L9000 MX	9000	907287	
	WMX5000 FS Flex 3GD L9000 MX SF*		928537	

* silicone-free
** Order from 500 – 9000 mm length possible. Length specification in mm required.

WMX5000 FS Flex 3GD HTC

Technical specifications

Response temperatures	0 °C to +400 °C (+32 °F to +752 °F)
Weight	max. 3680 g (8.1 lbs)
Dimensions	130 x 2000 – 130 x 9000 mm (dia.xH) 5.1 x 78.7 – 5.1 x 354.3 inch (dia.xH)

Part no.: 917525

High Temperature Cable (HTC) for high temperature applications. The ring-wave tube of the HTC-detector is for application temperatures up to 650 °C (1202 °F).

Note
The ring-wave tube is significantly less flexible than other WMX5000 FS flex detectors.

Approvals / marking
Type examination certificate   BVS 07 ATEX E 157

Otherwise like part no.: 907284

Brand	Designation	flex. Sensor rod* length (mm)	Order no.	Approvals / marking
Minimax	WMX5000 FS Flex 3GD HTC L9000 MX	9000	917527	VdS G 207091 Ex CE 0786-CPR-20281

* Order from 500 – 9000 mm length possible. Length specification in mm required.

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 classes 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 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

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 mm^2 (AWG 13)

Technical specifications

Detection method	PT1000 sensor
Response classes	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	-25 °C to +80 °C (-13 °F to +176 °F)
IP rating (EN 60529)	IP 66/67
Enclosure material	Diecast aluminium
Relative humidity	max. 95% no condensation
Specification according to	EN 54 Part 5
Weight	520 to 1600 g (1.2 to7.5 lbs)
Dimensions	130 x 2000 to 9000 mm (dia. x H) 5.1 x 78.7 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 conformity Russia in acc. with TP TC 012/2011	
Ex approval in acc. with NEC 500/505	

VdS G 207091 **CE** 0786-CPR-20281 **FM APPROVED**

Ex | Ex | IEC IECEx | nec

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

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)

Otherwise like part no.: 912113

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

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)

Otherwise like part no.: 912113

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

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)

Otherwise like part no.: 912113