

# Fire Detection Systems Industrial and Standard Detectors



Product Catalogue







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# Industrial Detectors

## General Information

### UniVario Industrial Fire Detectors

UniVario industrial fire detectors are intelligent, platform-based, microprocessor-controlled fire detectors with a robust housing and assembly technology for even the harshest working conditions. Thanks to their modular design and use of the latest signal processing technology, these devices meet individual specifications in an extraordinarily wide range of uses. For example, they can be used indoors and outdoors, in the immediate vicinity of the protected facility or from greater distances, in clean rooms or areas as well as in extremely dirty process conditions.

Detector variant	Standard	3GD (Zone 2/22)	Ex (Zone 1/2/20/21/22)	Ex (Zone 0/1/2/20/21/22)
Type of detector	FMX5000 UV	FMX5000 UV 3GD		
Ultraviolet flame detector				
3-channel infrared flame detector	FMX5000 IR	FMX5000 IR 3GD	FMX5000 IR Ex	FMX5000 IR Ex ST
Standard heat detector (single hole mounting)	WMX5000	WMX5000 3GD	WMX5000 Ex	WMX5000 Ex ST
High-temperature heat detector (also with flexible sensor rod - FS Ex)	WMX5000 FS	WMX5000 FS 3GD	WMX5000 FS Ex	WMX5000 FS Ex ST

### UniVario WMX5000 FS

The WMX5000 FS heat detector is specially designed to work in temperatures of up to 850 °C (1562 °F). Its heat sensor enables simple and flexible installation. A microcontroller monitors the function and analyzes temperature values. With its tough, sealed housing, the WMX5000 FS can be used in all sorts of scenarios. Optimum results are provided even when subjected to extreme temperature fluctuations, heavy soiling and aggressive conditions.

### UniVario Ex ST stainless steel

UniVario Ex ST Industrial fire detectors are designed to monitor areas with particularly harsh process conditions in industrial environments. These stainless steel models are suitable for use in potentially explosive atmospheres of zones 0, 1, 2, 20, 21 and 22. As these detectors are seawater-resistant, they are even suitable for offshore installations.

### UniVario FMX5000 IR

Despite the disturbance sources typical for industrial applications, the UniVario FMX5000 IR is extremely fast at detecting flames. Hot machine surfaces, direct sun radiation in exterior surroundings and welding operations are filtered by a special sensor combination and intelligent processing, while at the same time even the very small flames of an emerging fire are reliably detected and signaled as an alarm. With its three-way optics test, whereby all three sensors as well as the optical detector window are monitored, the UniVario FMX5000 IR is extremely fail-safe.

### UniVario FMX5000 UV

The flame detector FMX5000 UV reacts to optical radiation and analyzes specific wavelengths. It is installed wherever open flames are likely to develop quickly. Its perfect combination of early detection, high sensitivity, reliability, and the lowest possible risk of false alarms caused by thunderstorms, hot surfaces, or strong solar radiation make the UniVario fire detector indispensable for preventing the rapid spread of fires.

### UniVario WMX5000

The WMX5000 is designed to detect open fires where temperature is increasing rapidly, such as in the case of highly combustible solids, liquids, and gases. It responds instantaneously to any rapid rise in temperature or as soon as a pre-programmed temperature is exceeded.





# Industrial Detectors

## Optical Detection - UniVario IR Flame Detector

### FMX5000 IR



**Part no.: 907481**

Triple IR flame detector for the detection of typical fires. Including 3 channel optic test monitoring all functional characteristics of detector. Designed for use in rough industrial environments. Equipped for operation as a conventional detector. Expansion to a detector with Loop AP protocol via KMX5000 AP communication module.  
**NEW** New unit optics.

### Technical specifications

Detection method	3 IR Sensors
Sensitivity class	adjustable x (50 m (164 ft)) 1, 2, 3
Viewing angle	90°
Operating voltage	7.6 V - 30 V DC
Quiescent current	2.3 mA
Alarm 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
Operating temperature	-20 °C to +80 °C (-4 °F to +176 °F)
IP rating (EN 60529)	IP 66/67
Enclosure material	Diecast aluminum
Relative humidity (IEC 721-3-3)	max. 95% no condensation
Specification according to	EN 54 Part 10
Weight	820 g (1.8 lbs)
Dimensions	100 x 50 mm (dia. x H) 3.9 x 2 inch (dia. x H)

### Product features

- High degree of immunity against false alarms, e.g. from hot surfaces or sunlight
- A microcontroller monitors the functionality and analyses the recorded data. Faults can be indicated on the detector or on a separate line
- Service interface, history memory
- Connection of remote indicator possible
- 3-channel optic test

### Optional accessories

Remote indicator LMX5000	908499
Weather protection MX5000 complete	910134
Relay module KMX5000 RK	906361
KMX5000 AP communication module	905883

### 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
External indication	2-wire
Recommended cable	JY (St) Y 2x2x0.8 mm (0.03 inch)
Conductor cross-section	max. 2.5 mm <sup>2</sup> (AWG 13)

Brand	Designation	Order no.	Approvals / marking
Minimax	FMX5000 IR MX	922838	G 209141                      0786-CPR-20784
	FMX5000 IR MX SF (silicone-free)	922814	
Viking	FMX5000 IR VK	922819	G 217027                      0786-CPR-20784
	FMX5000 IR VK SF (silicone-free)	923356	



# Industrial Detectors

## Optical Detection - UniVario UV Flame Detector

### FMX5000 UV



**Part no.:** 904702

UV flame detector for the detection of typical fires. Including UV optic test monitoring all functional characteristics of detector. Designed for use in rough industrial environments and for operation as a conventional detector. Expansion to a detector with Loop AP protocol via KMX5000 AP communication module.

### Product features

- High degree of immunity against false alarms, such as storm, lightning or strong sunlight
- A microcontroller monitors the functionality and analyses the recorded data. Faults can be indicated on the detector or on a separate line
- Service interface, history memory
- Connection of remote indicator possible

### Technical specifications

Detection method	UV sensor
Sensitivity class	1
Viewing angle	90°
Operating voltage	7.6 V - 30 V DC
Quiescent current	approx. 0.25 mA
Alarm 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
Operating temperature	-20 °C to +80 °C (-4 °F to +176 °F)
IP rating (EN 60529)	IP 66/67
Enclosure material	Diecast aluminium
Relative humidity (IEC 721-3-3)	max. 95% no condensation
Specification according to	EN 54 Part 10
Weight	820 g (1.8 lbs)
Dimensions	100 x 50 mm (dia.xH) 3.9 x 2 inch (dia.xH)

### 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

### Spare part

Protecting cage	904284
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### Connection / mounting

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

Brand	Designation	Order no.	Approvals / marking
Minimax	FMX5000 UV MX	926628	
	FMX5000 UV MX SF (silicone-free)	926629	
Viking	FMX5000 UV VK	926630	
	FMX5000 UV VK SF (silicone-free)	926631	



# Industrial Detectors

## Thermal Detection - UniVario Heat Detector

### 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	-20 °C to +80 °C (-4 °F to +176 °F)
IP rating (EN 60529)	IP 67
Enclosure material	Diecast aluminium
Relative humidity (IEC 721-3-3)	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)
Performance Level acc. to ISO 13849	d

### 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 <sup>2</sup> (AWG 13)

Brand	Designation	Order no.	Approvals / marking
Minimax	WMX5000 MX	928309	
	WMX5000 MX SF (silicone-free)	928310	
Viking	WMX5000 VK	928311	
	WMX5000 VK SF (silicone-free)	928312	



# Industrial Detectors

## Optical Detection - UniVario IR Flame Detector, Ex

### UniVario FMX5000 IR 3GD



**Part no.: 909481**

Triple IR flame detector for the detection of typical fires. Including 3 channel optic test monitoring all functionalities of detector. ATEX-approved for category 3, Gas and Dust, suitable for use in Ex zones 2 and 22. The detector must not be connected with a safety barrier and a blue fire alarm cable. Designed for use in rough industrial environments. Equipped for operation as a conventional detector. Expansion to a detector with Loop AP protocol via KMX5000 AP communication module.

New unit optics.

### Technical specifications

Detection method	3 IR Sensors
Sensitivity class	adjustable x (50 m (164 ft)) 1, 2, 3
Viewing angle	90°
Operating voltage	7.6 V - 30 V DC
Quiescent current	2.3 mA
Alarm current	approx. 15 mA
Alarm indication	1 LED red
Fault indication current	approx. 15 mA
Fault indication	1 LED yellow
Operating temperature	-20 °C to +80 °C (-4 °F to +176 °F)
IP rating (EN 60529)	IP 66/67
Enclosure material	Diecast aluminum
Relative humidity (IEC 721-3-3)	max. 95% no condensation
Specification according to	EN 54 Part 10
Weight	820 g (1.8 lbs)
Dimensions	100 x 50 mm (dia. x H) 3.9 x 2 inch (dia. x H)

### Product features

- High degree of immunity against false alarms, e.g. from hot surfaces or sunlight
- A microcontroller monitors the functionality and analyses the recorded data. Faults can be indicated on the detector or on a separate line
- Service interface, history memory
- Connection of remote indicator possible
- 3-channel optic test
- For use in Ex zones 2 and 22, ATEX category 3 Gas/Dust

### Optional accessories

Parallel indicator LMX5000	908499
KMX5000 AP communication module	905883
Weather protection MX5000 complete	910134
Relais module KMX5000 RK 3GD	925999

### Not included in delivery

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

### Approvals / marking

Type examination certificate: BVS 11 ATEX E135  
 Ex conformity Russia in acc. with TP TC 012/2011  
 Ex approval in acc. with NEC 500/505

### Connection / mounting

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

Brand	Designation	Order no.	Approvals / marking
Minimax	FMX5000 IR 3GD MX	924418	
	FMX5000 IR 3GD MX SF (silicone-free)	924419	
Viking	FMX5000 IR 3GD VK	924420	
	FMX5000 IR 3GD VK SF (silicone-free)	924421	

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## Industrial Detectors

### Optical Detection - UniVario IR Flame Detector, Ex

#### FMX5000 IR Ex



#### Part no.: 911674

Triple IR flame detector for the detection of typical fires. Including 3 channel optic test monitoring all functionalities of detector. ATEX and IECEx approved for category 2 Gas and 1, 2 Dust, suitable for use in Ex zones 1, 2, 20, 21 and 22. The detectors must be connected via a safety barrier. Designed for use in tough industrial environments. Equipped for operation as a conventional detector. Extension to a detector with Loop AP protocol via the KMX5000 AP Ex. communication module.

#### Product features

- High degree of immunity against false alarms, e.g. from hot surfaces or sunlight
- A microcontroller monitors the functionality and analyses the recorded data. Faults can be indicated on the detector or on a separate line
- Service interface, history memory
- Connection of remote indicator possible
- 3-channel optic test
- For use in Ex zones 1, 2, 20, 21 and 22, ATEX category 2 Gas/1, 2 Dust

#### Technical specifications

Detection method	3 IR Sensors
Sensitivity class	adjustable x (50 m (164 ft)) 1, 2, 3
Viewing angle	90°
Operating voltage	7.6 V - 30 V DC
Quiescent current	4.5 mA
Alarm current	approx. 15 mA
Alarm indication	1 LED red
Fault indication current	approx. 15 mA
Fault indication	1 LED yellow
Operating temperature	-25 °C to +80 °C (-13 °F to +176 °F)
IP rating (EN 60529)	IP 66/67
Enclosure material	Diecast aluminum
Relative humidity (IEC 721-3-3)	max. 95% no condensation
Specification according to	EN 54 Part 10
Weight	860 g (1.9 lbs)
Dimensions	100 x 50 mm (dia. x H) 3.9 x 2 inch (dia. x H)
Performance Level acc. to ISO 13849	d

#### 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

#### Connection / mounting

Connection cable standard detector	2-wire
Additional fault line connection	2-wire
External indication	2-wire
Recommended cable	JE-Y (St) Y 2x2x0.8 mm (0.03 inch)
Conductor cross-section	max. 2.5 mm <sup>2</sup> (AWG 13)

#### Approvals / marking

Type examination certificate: BVS 12 ATEX E088  
 IECEx conformity: IECEx BVS 12.0056  
 Ex conformity Russia in acc. with TP TC 012/2011  
 Ex approval in acc. with NEC 500/505



G 209141



0786-CPR-20784





## Industrial Detectors

### Optical Detection - UniVario IR Flame Detector, Ex

#### FMX5000 IR Ex ST



#### Product features

- Stainless steel version
- High degree of immunity against false alarms, e.g. from hot surfaces or sunlight
- A microcontroller monitors the functionality and analyses the recorded data. Faults can be indicated on the detector or on a separate line
- Service interface, history memory
- 3-channel optic test
- 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	3 IR Sensors
Sensitivity class	adjustable x (50 m (164 ft)) 1, 2, 3
Viewing angle	90°
Operating voltage	7.6 V - 30 V DC
Quiescent current	4.5 mA
Alarm current	approx. 15 mA
Alarm indication	1 LED red
Fault indication current	approx. 15 mA
Fault indication	1 LED yellow
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 10
Weight	1000 g (2.2 lbs)
Dimensions	130 x 50 mm (dia. x H) 5.1 x 2 inch (dia. x H)
Performance Level acc. to ISO 13849	d

#### Part no.: 916255

Triple IR flame detector for the detection of typical fires. Including 3-channel optic test monitoring all functionalities of detector. ATEX and IECEx approved for category 1, 2, 3 Gas and 1, 2, 3 Dust, suitable for use in Ex zones 0, 1, 2, 20, 21 and 22. The detectors must be connected via 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
Weather protection MX5000 complete	910134
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 088
IECEx conformity:	IECEx BVS 12.0056



G 209141



0786-CPR-20784





# Industrial Detectors

## Thermal Detection - UniVario Heat Detector, 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	-20 °C to +80 °C (-4 °F to +176 °F)
IP rating (EN 60529)	IP 66/67
Enclosure material	Diecast aluminium
Relative humidity (IEC 721-3-3)	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)
Performance Level acc. to ISO 13849	d

### 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 <sup>2</sup> (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	
	WMX5000 3GD MX SF (silicone-free)	928445	
Viking	WMX5000 3GD VK	928446	
	WMX5000 3GD VK SF (silicone-free)	928447	



# Industrial Detectors

## Thermal Detection - UniVario Heat Detector, 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	-25 °C to +80 °C (-13 °F to +176 °F)
IP rating (EN 60529)	IP 66/67
Enclosure material	Diecast aluminium
Relative humidity (IEC 721-3-3)	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 <sup>2</sup> (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	



G 207090



0786-CPR-20280





# 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



G 207090



0786-CPR-20280





## Industrial Detectors

### UniVario Detector Accessories - Base

#### Base MX5000



#### Technical specifications

Material	Aluminum
Relative humidity	max. 100 %
Cable diameter	5 - 9 mm
Gland	2 pcs. M16 x 1.5
Equipotential bonding terminal	no
Color	red
Ambient temperature	-40 °C to +100 °C (-40 °F to +212 °F)
Weight	310 g (0.7 lbs)

#### Part no.: 904701

Retaining base for UniVario industrial fire detectors, excluding 3GD and Ex detectors. Contains cable entries, EMC and environmental seals, connecting terminals and space for the optional relay module KMX5000 RK. Enables replacement of a detector without any terminal work.

#### Not included in delivery

End of line resistor 1.8 K / 0.5 W	675235
Dust protection cap MX5000	921694

#### Spare parts

Seal 127 x 2.9 / 1.6 mm	904752
Gland M 16 x 1.5 Ms	901861
Sealing cord 8 mm Viton 0.036 m	800605

#### Approvals

See corresponding UniVario detectors.

Brand	Designation	Order no.
Minimax	MX5000 MX	924440
	MX5000 MX SF (silicone-free)	914235
Viking	MX5000 VK	924441
	MX5000 VK SF (silicone-free)	926500



## Industrial Detectors

### UniVario Detector Accessories - Base

#### Base MX5000 Ex



#### Technical specifications

Material	Aluminum
Relative humidity	max. 100 %
Cable diameter	5 - 9 mm
Gland	2 pcs. M16 x 1.5
Equipotential bonding terminal	yes
Color	red
Ambient temperature	-40 °C to +100 °C (-40 °F to +212 °F)
Weight	530 g (1.2 lbs)

#### Part no.: 912082

Detector base for installation of the UniVario industrial fire detectors of the 3GD and Ex series. Contains cable inlets, EMC and environmental sealing as well as terminals. Thus detectors can be replaced without requiring connecting work.

#### Not included in delivery

End of line resistor 1.8 K / 0.5 W	675235
Dust protection cap MX5000	921694

#### Spare parts

Seal 127 x 2.9 / 1.6 mm	904752
Gland M 16 x 1.5 Ms Ex	904652
Sealing cord 8 mm Viton 0.036 m	800605

#### Approvals

See corresponding UniVario detector.

Brand	Designation	Order no.
Minimax	MX5000 Ex MX	924443
	MX5000 Ex MX SF (silicone-free)	924766
Viking	MX5000 Ex VK	924442
	MX5000 Ex VK SF (silicone-free)	924767

#### Base MX5000 M20 Ex



#### Technical specifications

Material	Aluminum
Relative humidity	max. 100 %
Cable diameter	7 - 12 mm
Gland	2 pcs. M20 x 1.5
Equipotential bonding terminal	yes
Color	red
Ambient temperature	-40 °C to +100 °C (-40 °F to +212 °F)
Weight	530 g (1.2 lbs)

#### Part no.: 922432

Detector base for installation of the UniVario industrial fire detectors of the 3GD and Ex series. Contains cable entries, EMC and environmental seals and connecting terminals. Enables replacement of a detectors without any terminal work.

#### Not included in delivery

End of line resistor 1.8 K / 0.5 W	675235
Dust protection cap MX5000	921694

#### Spare parts

Seal 127 x 2.9 / 1.6 mm	904752
Gland M 20 x 1.5 Ms Ex nickel plated	925958
Sealing cord 12 mm Viton 0.036 m	925957

#### Approvals

See corresponding UniVario detector.



## Industrial Detectors

### UniVario Detector Accessories - Mounting

#### Bracket MX5000



**Part no.:** 904757

Mounting bracket for UniVario base

**Included in delivery**

1 Bracket UniVario MX5000  
2 Screws M8, hex socket size 5 mm (0.2 inch)

**Not included in delivery**

Mounting screws for wall/ceiling-mounted installation.

#### Technical specifications

Material	Stainless steel, 2 mm (0.08 inch) thick
Bracket retention	Plastic (POM), black
Weight	110 g (0.2 lbs)

#### Spare parts

Screw M8 904355

#### Bracket MX5000 SF

Silicon free bracket

**Part no.:** 914234

Otherwise like part no. 904757

#### Mounting angle bracket MX5000



**Part no.:** 922485

The mounting bracket is designed for mounting the Bracket MX5000 in room corners. It offers the possibility to align an UniVario flame detector in the vertical as well as in the horizontal axis. The MX5000 can be aligned in 22.5 ° increments.

**Included in delivery**

1 Mounting angle bracket MX5000

**Not included in delivery**

Mounting screws for wall/ceiling-mounted installation.

#### Technical specifications

Material	Stainless steel, 2.5 mm (0.1 inch) thick
Bending radius	4.5 mm (0.18 inch)
Weight	540 g (1.12 lbs)



## Industrial Detectors

### UniVario Detector Accessories

#### Weather protection MX5000 complete



#### Technical specification

Material	Stainless steel, 0.5 mm (0.02 inch)
Dimensions	140 x 110 x 220 mm (WxHxL) 5.5 x 4.3 x 8.7 inch (WxHxL)
Colour	inside black
Weight	300 g (0.67 lbs)

#### Part no.: 910134

Additional equipment – weather protection for flame detectors of the Uni Vario series for use in case of increased solar radiation or exposure to harsh weather conditions.

#### Connection / mounting

Fasten the weather protection to the detector.

#### Included in delivery

Mounting material

#### Dust protection cap MX5000



#### Technical specification

Material	EVA
Dimensions	130 x 11 mm (DxH) 5.1 x 0.4 inch (DxH)
Weight	23 g (0.05 lbs)

#### Part no.: 921694

Protection against pollution of UniVario detectors before commissioning.

#### Included in delivery

1 Dust protection cap MX5000 (individual delivery)

#### Connection / mounting

Put the dust protection cap over the base.



## Industrial Detectors

### UniVario Detector Accessories - Module

#### KMX5000 AP communication module



#### Product features

- Communication module for constant signaling of operating condition, alarms and faults via Loop AP protocol
- Ring bus connection, no additional power supply
- Integration in UniVario series detectors

#### Technical specifications

Connection	10 spring contacts (module/detector)
Operating voltage	17 V - 28 V DC
Operating current	approx. 0.3 mA
Communication protocol	Loop AP
Addressing	8 position DIP switch
Operating temperature	-20 °C to +80 °C (-4 °F to +176 °F)
Relative humidity (IEC 721-3-3)	5 to 85% no condensation
Specification according to	EN 54 Part 18
Weight	15 g (0.03 lbs)
Dimensions	54 x 28 x 19.5 mm (LxWxH) 2.1 x 1.1 x 0.8 inch (LxWxH)

#### Part no.: 905883

Communication module for the operation of UniVario detectors on fire alarm panels with Loop AP protocol. By simply plugging the module into the detector, a conventional detector is turned into an analogue addressable detector. The detector address is set via DIP switches. Power supply and communications are connected via the ring bus; no additional power supply is required.

The communication module can be used for all standard and 3GD (Zone 2 and 22) UniVario detectors.

#### Included in delivery

1 KMX5000 AP communication module  
Pan-head screw and Spacer

#### Connection / mounting

Plug-in module in UniVario series detectors

#### Approvals / marking



G 207032



0786-CPR-20315





# Industrial Detectors

## UniVario Detector Accessories - Module

### Relay module KMX5000 RK



**Part no.: 906361**

Communication module for the operation of UniVario detectors, independent of any fire detection system. Dry contacts for alarm and fault signaling allow the detectors to be used as stand-alone units, in any fire and hazard detection system or in building management and control systems. The KMX5000 RK communication module is designed to be integrated into the UniVario detector base MX5000 and must not be used in hazardous areas.

#### Product features

- Dry changeover contacts for alarm and fault signaling
- Integration into MX5000 detector base

#### Included in delivery

Relay module KMX5000 RK  
Jumper  
Installation material

#### Technical specifications

Connection	6-conductor ribbon cable
Operating voltage	24 V (14 V - 29 V) DC
Quiescent current	approx. 7 mA
Current consumption with alarm relay active	approx. 20 mA
Current consumption with alarm relay and fault relay active	approx. 30 mA
Voltage load, contacts	max. 60 V DC, 25 V AC
Current load, contacts	max. 1 A
Fault indication	1 yellow LED (2nd line)
Operating temperature	-20 °C to +80 °C (-4 °F to +176 °F)
Relative humidity (IEC 721-3-3)	5 to 85% no condensation
Specification according to	EN 54 Part 18
Weight	50 g (0.1 lbs)
Dimensions	64 x 24 x 57 mm (LxWxH) 2.5 x 0.9 x 2.2 inch (LxWxH)

#### Connection / mounting

Conductor cross-section min. 0.5 mm<sup>2</sup> (AWG 20)  
max. 2.5 mm<sup>2</sup> (AWG 13)

#### Note

Not for use in potentially explosive atmospheres.

#### Approvals / marking



G 208058



0786-CPD-20314



Brand	Designation	Order no.
<b>Minimax</b>	Relay module KMX5000 RK MX	929143
<b>Viking</b>	Relay module KMX5000 RK VK	929144



## Industrial Detectors

### UV Flame Detector, Ex

#### UMX3001 Ex



#### Product features

- Wide field of view
- Fast flame response
- High water and dust protection (IP 67)
- For use in Ex zones 1, 2, 21 and 22

#### Technical specifications

Detections method	UV-Sensor
Viewing angle	110 °
Number of detectors per line	max. 4
Operating voltage	7.6 V - 13.2 V DC
Quiescent current	approx. 1 mA
Alarm current	approx. 20 mA
Alarm indication	1 LED red
Electrostatic shielding	required
Operating temperature	-20 °C to +70 °C (-4 °F to +158 °F)
IP rating (EN 60529)	IP 67
Enclosure material	Diecast aluminum, silver grey
Relative humidity (IEC 721-3-3)	max. 95% at +35 °C (95 °F)
Weight	3 kg (6.6 lbs)
Dimensions	88 x 190 mm (dia. x H) 3.5 x 7.5 inch (dia. x H)

#### Part no.: 903802

UV flame detector for the detection of open flames. Designed for use in rough industrial environments. Equipped for operation as a conventional detector. The UMX3001 Ex flame detectors are ATEX-approved for category 2 gas and dust and are suitable for use in Ex zones 1 and 21. The UMX3001 Ex has a pressure resistant casing.

#### Not included in delivery

End of line-resistor 1.8 K / 0.5 W 675235

#### Connection / mounting

Connection cable standard detector 2-wire  
 Additional connection latching indication 1-wire  
 Recommended cable LIYCY grey 5x0.5 mm<sup>2</sup>  
 (AWG 20)  
 Conductor cross-section max. 2.5 mm<sup>2</sup> (AWG 13)  
 Conducting cable diameter 5 mm to 9 mm (0.20 to 0.35 inch)  
 Cable gland metal, EMV, Ex M16x1.5

#### Approvals / marking

Type examination certificate: BVS 04 ATEX E 168 X





## Industrial Detectors

### IR Flame Detector

#### FMX3511



#### Part no.: 801618

Double infrared flame detector FMX3511 for the detection of open flames. Optic-test monitors the functionality of the detector. Designed for use in rough industrial environments. Equipped for operation as a conventional detector.

#### Product features

- High degree of immunity against false alarms, e.g. from hot surfaces
- A microcontroller monitors the functionality. Faults can be indicated on the detector or on a separate line
- Connection of remote indicator possible
- Single optic test

#### Technical specifications

Detection method	2 IR Sensors
Sensitivity class	3
Viewing angle	60 °
Operating voltage	7.6 V - 15 V DC
Quiescent current	approx. 3 mA
Alarm current	approx. 18 mA
Alarm indication	1 LED red
Fault indication current	approx. 7 mA
Fault indication	1 LED yellow
Number of detectors per line	max. 4
Electrostatic shielding	required
Operating temperature	-25 °C to +80 °C (-13 °F to +176 °F)
IP rating (EN 60529)	IP 65
Enclosure material	Diecast aluminum, RAL 5009-blue
Relative humidity (IEC 721-3-3)	max. 100% at + 35 °C (+95 °F)
Specification according to	EN 54 Part 10
Weight	600 g (1.3 lbs)
Dimensions	127 x 125 x 70 mm (WxHxD) 5 x 4.9 x 2.8 inch (WxHxD)

#### Not included in delivery

End of line-resistor 1.8 K / 0.5 W	675235
Sun screen	801277
Remote indicator LMX5000	908499
Plug for the pollution test	801079
Mounting device bracket with insulation (included in delivery with type BG)	801284
Mounting device console 125x80Ø60 (included in delivery with type Console)	801280
Mounting device console 125x80Ø60 LSP (included in delivery with type Console LSP)	801281

#### Connection / mounting

Connection cable standard detector	2-wire
Recommended cable	LiYCY 5x0.5 mm <sup>2</sup> (AWG 20)
Cable gland	M16x1.5, Brass nickel-plated, EMV

#### Approvals / marking



G 296016



0786-CPD-20312





## Industrial Detectors

### IR Flame Detector, Ex

#### FMX3501 Ex



#### Product features

- High degree of immunity against false alarms, e.g. from hot surfaces
- A microcontroller monitors the functionality. Faults can be indicated on the detector or on a separate line
- Connection of remote indicator possible
- Single optic-test
- For use in Ex zones 1, 2 and 22

#### Technical specifications

Detection method	2 IR Sensors
Sensitivity class	3
Viewing angle	60 °
Operating voltage	7.6 V - 15 V DC
Quiescent current	approx. 3 mA
Alarm current	approx. 18 mA
Alarm indication	1 LED red
Fault indication current	approx. 7 mA
Fault indication	1 LED yellow
Number of detectors per line	max. 4
Electrostatic shielding	required
Operating temperatur	-25 °C to +80 °C (-4 °F to +176 °F)
IP rating (EN 60529)	IP 65
Enclosure material	Diecast aluminum, RAL 5009-blue
Relative humidity (IEC 721-3-3)	max. 100% at +35 °C (+95 °F)
Weight	600 g (1.3 lbs)
Dimensions	127 x 125 x 70 mm (WxHxD) 5 x 4.9 x 2.8 inch (WxHxD)

#### Part no.: 903133

Infrared flame detector FMX3501 Ex for the detection of open flames. Optic-test monitors the functionality of the detector. Designed for use in rough industrial environments. Equipped for operation as a conventional detector. Infrared flame detector FMX3501 Ex are ATEX-approved for category 2 gas and 3 dust and are suitable for use in Ex zones 1 and 22. Intrinsically safe flame detectors must be connected by correspondingly marked cables to explosion hazard barriers.

#### Not included in delivery

End of line-resistor 1.8 K / 0.5 W	675235
Safety barrier IS conventional 9 V	923991
Sun screen	801277
Card clock modul ext.detector identifier	831953
Plug for the pollution test	801079
Mounting device bracket with insulation (included in delivery with type BG)	801284

#### Connection / mounting

Connection cable standard detector	2-wire
Recommended cable OB-BL-PAAR-CY 2x2x0.5 mm <sup>2</sup> (AWG 20)	
Cable gland	M16x1.5, Brass nickel-plated, EMV

#### Approvals / marking

Type examination certificate: DMT 02 ATEX E224  
Ex conformity Russia in acc. with TP TC 012/2011



G 296016



0786-CPD-20312





## Industrial detectors

### Gas Emission Detector, Ex

#### GMX1001CO Ex Dust BG



#### Product features

- A microcontroller monitors the functionality and values
- Multi sensor carbon monoxide and temperature
- Connection of remote indicator possible
- For use in Ex zones 20, 21 and 22

#### Technical specifications

Detection method	CO (carbon monoxide) and temperature
Alarm threshold	≥ 40 ppm
- Carbon monoxide	> 60 °C (140 °F)
- Temperature	dT > 3 °C/min. at T
- Rate of rise measurement	> 36 °C (96.8 °F)
Operating voltage	7.6 V - 40 V DC
Quiescent current	approx. 0.15 mA
Alarm current	approx. 18 mA
Alarm indication	1 LED red
Electrostatic shielding	required
Operating temperature	-20 °C to +50 °C (-4 °F to +122 °F)
IP rating (EN 60529)	IP 65
Enclosure material	Diecast aluminum, RAL 5009-blue
Relative humidity (IEC 721-3-3)	max. 15 to + 90 % no condensation
Specification according to	EN 54-5
Weight	600 g (1.3 lbs)
Dimensions	122 x 106 x 88 mm (WxHxD) 4.8 x 4.2 x 3.5 inch (WxHxD)

#### Part no.: 905643

Multi sensor fire gas detector GMX1001CO Ex Dust BG for the early detection of smoldering fires. Designed for use in rough industrial environments (e.g. silos, chip bunkers). The GMX1001CO I detects the burning characteristic substance carbon monoxide and temperature. False alarms are nearly impossible. Designed for operation as a conventional detector. The GMX1001CO Ex Dust BG gas detectors are ATEX-approved for category 1 and 2 dust and are suitable for use in Ex zone 20 and 21.

#### Not included in delivery

Mounting device console 80x75Ø54	902898
End of line-resistor 1.8 K / 0.5 W	675235
Test device smoke generator RG2000	902671
Remote indicator LMX5000	908499

#### Connection / mounting

Connection cable standard detector	2-wire
Conductor cross-section	max. 2.5 mm <sup>2</sup> (AWG 13)
Fire detection cable with static shield	606061
LIYCY grey	5x0.5 mm <sup>2</sup> (AWG 20)
Cable gland	M16x1.5, Brass nickel-plated, EMV, Ex

#### Spare parts

Screwed GMX1001COI complete	902923
Sensor GMX1002CO	900968

#### Note

Simple one-man calibration

#### Approvals / marking

Type examination certificate: BVS 05 ATEX E179



G 204121



0786-CPD-20135





## Special detectors

### Linear Smoke Detectors

#### FireRay 5000



#### Product features

- Integrated laser
- One system controller unit can be used to control and monitor up to two detector heads
- Monitored area min. 8 m (25 ft) up to max. 100 m (328 ft) depends on the used number of prism reflectors
- Auto-Align: automatic ray alignment
- Auto-Optimize: adjustment to compensate for building movement and impurities
- 2-wire interface between system control device and detector
- Integrated event log for 50 events per detector head

#### Technical specifications

Optical wavelength	850 nm
Ambient temperature	-10 °C to +55 °C (+14 °F to +131 °F)
Storage temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Relative humidity	max. 93 %, no condensation
Operating voltage	14 to 36 V DC
Rated voltage	24 V DC
Rated current consumption with 1 detector head	5 to 6 mA
Rated current consumption with 2 detector heads	7.5 to 8.5 mA
Current consumption alignment mode	35 to 37 mA
Outputs	2 alarm relays 2 fault relays
Relay contact voltage	30 V DC
Relay contact current	100 mA
Response sensitivity	adjustable 10 to 60 %
IP rating	IP 54
Specification according to	EN 54-12
Weight (system control)	1000 g (2.2 lbs)
Dimensions (system control)	202 x 230 x 87 mm (WxHxD) 7.95 x 9.05 x 3.42 inch (WxHxD)
Weight (detector head)	500 g (1.1 lbs)
Dimensions detector head	134 x 131 x 134 mm (WxHxD) 5.27 x 5.16 x 5.27 inch (WxHxD)
Dimensions prism reflectors	100 x 100 x 10 mm (WxHxD) 3.9 x 3.9 x 0.4 inch (WxHxD)

#### Part no.: 908458

The FireRay 5000 is a high performance auto-aligning beam detector comprising of a ground level controller, detector head with auto-aligning feature, integral laser for rapid initial alignment and single prism, This enables quicker installation and auto-compensation for building movement. An additional detector head can be added to the controller.

#### Included in delivery

- 1 System controller unit
- 1 Detector head
- 1 Reflector
- 1 Short range mask

#### Note

1 reflector is monitoring distances from 8 up to 50 m (26 up to 164 ft). For a range less than 18 m (59 ft), the short range mask may be used. 4 reflectors are required for monitoring a range of 50 m up to 100 m (26.25 up to 328 ft).

#### Approvals / marking

G 208017

0832-CPD-0565





## Special Detectors

### Linear Heat Detectors

#### WMX5000 LH



#### Product features

- Self-monitoring
- LED status display indicates operation, alarm and fault
- Potential-free contacts signal alarm and fault

#### Included in delivery

WMX5000 LH with mounted base

#### Not included in delivery

Linear heat detection cable WMX5000 LH 910558

#### Note

Compatible with all UniVario assembly components.

#### Approvals / marking



#### Part no.: 913705

The fire detection element is the linear heat detection cable, part no. 910558. The WMX5000 LH monitors the heat detection cable and triggers an alarm when a defined temperature is exceeded at any point of the cable. The detector also has various monitoring functions. Alarms and faults are indicated by LED status displays which are available as potential-free contacts.

#### Technical specifications

Measuring principle	Linear hear detector cable
Operating voltage	16 - 30 V DC
Current consumption (excluding alarm)	approx. 30 mA
Current consumption (including alarm)	approx. 50 mA
Relay contact alarm max.	1 A / 30 V DC
Relay contact fault max.	1 A / 30 V DC (fail safe)
Normal operation indication	1 LED green
Alarm indication	1 LED red
Fault indication	1 LED yellow
Operating temperature	-40 °C to +80 °C (-40 °F to +176 °F)
IP rating (EN60529)	IP 67
Enclosure material	Diecast aluminum
Weight	860 g (1.9 lbs)
Dimensions incl. base	130x140x36 mm (BxHxT) 5.12x5.51x1.42in. (WxHxD)

#### Linear heat detection cable WMX5000 LH



#### Part no.: 910558

The linear heat detection cable is the fire detection element of the linear heat detector WMX5000 LH, part no. 913705.

#### Included in delivery

Linear heat detection cable WMX5000 LH 910558

#### Not included in delivery

Linear heat detector WMX5000 LH 913705

#### Note

Alternate lengths and response temperatures can be provided if required. The cable has to be replaced after a fire detection..

#### Technical specifications

Length (standard)	7 m (23 ft)
Permanent temperature max.	+ 120 °C (248 °F)
Response temperature	+ 180 °C (356 °F)
Weight	295 g (0.65 lbs)



## Aspirating smoke detectors HELIOS AMX5000, Detector Heads

### Detector interface AMX1002 IF



#### Part no.: 908102

Detector can be used to insert up to two detector heads. Detection of pre-alarm and main alarm via the HELIOS AMX5000.

#### Technical specifications

Weight	0.26 kg (0.56 lbs)
Dimensions	150 x 115 x 95 mm (WxHxD) 5.90 x 4.52 x 3.74 inch (WxHxD)

### Optical smoke detector OMX1002 C



#### Part no.: 801226

Detector head for use in the HELIOS AMX5000 via the detector interface AMX1002 IF

#### Technical specifications

Sensitivity	2.73 % / m (0.83 % / ft)
Weight	0.07 kg (0.56 lbs)
Dimensions	55 x 55 mm (DxH) 2.16 x 2.16 inch (DxH)

### Optical smoke detector OMX1002C HS



#### Part no.: 904639

Detector head with increased sensitivity for use in the HELIOS AMX5000 via the detector interface AMX1002 IF

#### Technical specifications

Sensitivity	0.34 % / m (0.10 % / ft)
Weight	0.07 kg (0.56 lbs)
Dimensions	55 x 55 mm (DxH) 2.16 x 2.16 inch (DxH)

### Ionisation smoke detector IMX1002E



#### Part no.: 797144

#### Technical specifications

Sensitivity	y = 0,8
Weight	0.06 kg (0.13 lbs)
Dimensions	55 x 55 mm (DxH) 2.16 x 2.16 inch (DxH)

### Carbon monoxide gas detector GMX1002 CO



#### Part no.: 900959

#### Technical specifications

Trigger value carbon monoxide	40 ppm
Weight	0.06 kg (0.13 lbs)
Dimensions	55 x 35 mm (DxH) 2.16 x 1.37 inch (DxH)



## Aspirating smoke detectors

### HELIOS AMX5000, Detector Heads

#### Smoke sensor OMX5005

Part no.: 908099



#### Technical specifications

Sensitivity	0.5 % / m - 10 % / m (0.152 % / ft - 3.049 % / ft)
Weight	0.30 kg (0.66 lbs)
Dimensions	150 x 125 x 95 mm (WxHxD) 5.90 x 4.92 x 3.74 inch (WxHxD)

#### Smoke sensor OMX5010

Part no.: 908100



#### Technical specifications

Sensitivity	0.1 % / m - 10 % / m (0.030 % / ft - 3.049 % / ft)
Weight	0.30 kg (0.66 lbs)
Dimensions	150 x 125 x 95 mm (WxHxD) 5.90 x 4.92 x 3.74 inch (WxHxD)

#### Smoke sensor OMX5020

Part no.: 908101



#### Technical specifications

Sensitivity	0.02 % / m - 10 % / m (0.006 % / ft - 3.049 % / ft)
Weight	0.30 kg (0.66 lbs)
Dimensions	150 x 125 x 95 mm (WxHxD) 5.90 x 4.92 x 3.74 inch (WxHxD)



# Manual call points

## DMX Indoor Application

### Overview indoor application

Application Accessories Replacement	Application							Accessories						Replacement						Catalogue Chapter					
	IP rating	Short circuit isolator	Ex Zone	Approvals/ Norms (further approval on catalogue page)	Alarm-LED	Latching contact (R) Non-Latching contact (T)	Conventional (G) Addressable (A)	Silicone-free	Weatherproof enclosure red (903792)	Weatherproof enclosure yellow (903779)	Weatherproof enclosure blue (903780)	Weatherproof enclosure green (903791)	Special labelling for outside sign	French labelling	Individual labelling	Detector element (inlay) DMX Symbol (904449)	Detector element (inlay) DMX Symbol LED (904450)	Board DMX3000 (907764)	Board DMX3000, LED (907765)		Board DMX3000, 2GRU (907766)	Board DMX3000, LED ext. (907728)	Board DMX95 (907942)	Board DMX95-1 (916383)	
<b>903639</b> DMX3000 Manual Call Point, red	IP 42	---	---	VdS EN 54-11	---	R	G	---	X	---	---	---	X <sup>1</sup>	X <sup>1</sup>	---	X	---	X	---	---	---	---	---	---	5-9
<b>888791</b> DMX3000 Manual Call Point fire brigade, red	IP 42	---	---	---	---	R	G	---	X	---	---	---	X <sup>1</sup>	X <sup>1</sup>	---	X	---	X	---	---	---	---	---	---	5-11
<b>904463</b> DMX3000 LED Manual Call Point, red	IP 42	---	---	VdS EN 54-11	X	R	G	---	X	---	---	---	---	---	---	X	---	X	---	---	---	---	---	---	5-14
<b>920843</b> DMX2000 LED Manual Call Point, red	IP 42	---	---	VdS EN 54-11	X	R	G	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5-17
<b>915745</b> DMX95-1 Manual Call Point, red	IP 43	X	---	VdS EN 54-11	X	R	A	---	X	---	---	---	---	---	---	X	---	---	---	---	---	---	X	---	5-3
<b>915746</b> DMX95-1 Manual Call Point fire brigade, red	IP 43	X	---	---	X	R	A	---	X	---	---	---	---	---	---	---	X	---	---	---	---	---	---	X	5-5
<b>903767</b> DMX3000 Ex Manual Call Point, red	IP 42	---	1 22	VdS EN 54-11 ATEX	---	R	G	---	X	---	---	---	X <sup>1</sup>	X <sup>1</sup>	---	X	---	---	---	---	---	---	---	---	5-21
<b>923164</b> DMX SA 908-1 Manual call point, red	IP 44	---	---	EN 54-11 EN 54-17	X	---	A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5-7
<b>888845</b> DMX3000 Manual Release, yellow	IP 42	---	---	VdS EN 12094-3	---	R	G	---	---	X	---	---	X <sup>1</sup>	X <sup>1</sup>	---	X	---	X	---	---	---	---	---	---	5-10
<b>801001</b> DMX3000 SF Manual Release, yellow	IP 42	---	---	VdS EN 12094-3	---	R	G	X	---	X	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5-12
<b>904466</b> DMX3000 LED Manual Release, yellow	IP 42	---	---	VdS EN 12094-3	X	R	G	---	---	X	---	---	---	---	---	X	---	X	---	---	---	---	---	---	5-15
<b>920844</b> DMX2000 LED Manual release, yellow	IP 42	---	---	VdS EN 12094-3	X	R	G	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5-18
<b>915747</b> DMX95-1 Manual Release, yellow	IP 43	X	---	VdS EN 12094-3	X	R	A	---	---	X	---	---	---	---	---	---	X	---	---	---	---	---	---	X	5-4
<b>903770</b> DMX3000 Ex Manual Release, yellow	IP 42	---	1 22	VdS EN 12094-3 ATEX	---	R	G	---	---	X	---	---	X <sup>1</sup>	X <sup>1</sup>	---	X	---	---	---	---	---	---	---	---	5-22

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# Manual call points

## DMX Indoor Application

### Overview indoor application

Application Accessories Replacement	Application							Accessories							Replacement							Catalogue Chapter	
	IP rating	Short circuit isolator	Ex Zone	Approvals/ Norms (further approval on catalogue page)	Alarm-LED	Latching contact (R) Non-Latching contact (T)	Conventional (G) Addressable (A)	Silicone-free	Weatherproof enclosure red (903792)	Weatherproof enclosure yellow (903779)	Weatherproof enclosure blue (903780)	Weatherproof enclosure green (903791)	Special labeling for outside sign	French labeling	Individual labeling	Detector element (inlay) DMX Symbol (904449)	Detector element (inlay) DMX Symbol LED (904450)	Board DMX3000 (907764)	Board DMX3000, LED (907765)	Board DMX3000, 2GRU (907766)	Board DMX3000, LED ext. (907728)		Board DMX95 (907942)
<b>888821</b> DMX3000 Emergency Button, blue	IP 42	---	---	VdS EN 12094-3	---	T	G	---	---	X	---	X <sup>1</sup>	X <sup>1</sup>	---	X	---	X	---	---	---	---	---	5-10
<b>801003</b> DMX3000 SF Emergency Button, blue	IP 42	---	---	VdS EN 12094-3	---	T	G	X	---	X	---	---	---	---	---	---	---	---	---	---	---	---	5-13
<b>904465</b> DMX3000 LED Emergency Button, blue	IP 42	---	---	VdS EN 12094-3	---	T	G	---	---	X	---	---	---	---	---	X	---	X	---	---	---	---	5-15
<b>903769</b> DMX3000 Ex Emergency Button, blue	IP 42	---	1 22	VdS EN 12094-3 ATEX	---	T	G	---	---	X	---	X <sup>1</sup>	X <sup>1</sup>	---	X	---	---	---	---	---	---	---	5-22
<b>915749</b> DMX95-I Internal Alarm, blue	IP 43	X	---	---	X	R	A	---	---	X	---	---	---	---	---	X	---	---	---	---	---	X	5-4
<b>888810</b> DMX3000 2nd Release, green	IP 42	---	---	VdS EN 12094-3	---	T	G	---	---	---	X	---	---	---	X	---	X	---	---	---	---	---	5-10
<b>904464</b> DMX3000 LED 2nd Release, green	IP 42	---	---	VdS EN 12094-3	X	T	G	---	---	---	X	---	---	---	---	X	---	X	---	---	---	---	5-15
<b>915748</b> DMX95-I 2nd Release, green	IP 43	X	---	---	X	T	A	---	---	---	X	---	---	---	---	X	---	---	---	---	---	X	5-4
<b>903768</b> DMX3000 Ex 2nd Release, green	IP 42	---	1 22	VdS EN 12094-3 ATEX	---	T	G	---	---	---	X	---	---	---	X	---	---	---	---	---	---	---	5-22
<b>903246</b> DMX3000 Manual Call Point, variable	IP 42	---	---	X <sup>2</sup>	AA	R / T	G	AA	X <sup>2</sup>	X <sup>2</sup>	X <sup>2</sup>	X <sup>2</sup>	X <sup>1,2</sup>	X <sup>1,2</sup>	X	X <sup>2</sup>	X <sup>2</sup>	X <sup>2</sup>	X <sup>2</sup>	X <sup>2</sup>	X <sup>2</sup>	---	5-16
<b>915750</b> DMX95-I Manual Call Point, variable	IP 43	X	---	X <sup>2</sup>	AA	R / T	A	AA	X <sup>2</sup>	X <sup>2</sup>	X <sup>2</sup>	X <sup>2</sup>	---	---	X	---	X	---	---	---	---	X	5-6
<b>904152</b> DMX3000 Ex Manual Call Point, variable	IP 42	---	1 22	ATEX X <sup>2</sup>	---	R / T	G	AA	X <sup>2</sup>	X <sup>2</sup>	X <sup>2</sup>	X <sup>2</sup>	X <sup>1</sup>	X <sup>1</sup>	X	X	---	---	---	---	---	---	5-24

X<sup>1</sup> = Manual Call Point is perhaps not approval compliant

X<sup>2</sup> = Depending on the variable type of detector

AA = On request



# Manual call points

## DMX Outdoor Application

### Overview outdoor application

Application Accessories Replacement	Application								Accessories		Replacement						Catalogue chapter
	IP rating	Short circuit isolator	Ex Zone	Approvals/ Norms (further approval on catalogue page)	Alarm-LED	Latching contact (R) Non-Latching contact (T)	Conventional (G) Addressable (A)	Silicone-free	Special labeling for white inside panel (907192)	Individual labeling (outside)	Board DMX3100 SUX95, switch (907890)	Board DMX3100 SUX95, button (907912)	Board DMX3100, switch (907883)	Board DMX3100, button (907884)	Board DMX3100, 2GRU, switch (907887)	Board DMX3100, ZDP, switch (907886)	
<b>906939</b> DMX3100 Manual Call Point, red	IP 66	---	---	VdS EN 54-11	---	R	G	---	X <sup>1</sup>	---	---	---	X	---	---	---	5-36
<b>918153</b> DMX3100, red	IP 66	---	---	---	---	R	G	---	X <sup>1</sup>	---	---	X	---	---	---	---	5-40
<b>908622</b> DMX3195-I Manual Call Point, red	IP 66	X	---	VdS EN 54-11 EN 54-17	---	R	A	---	X <sup>1</sup>	---	---	---	---	---	---	---	5-29
<b>910815</b> DMX3195-I, red	IP 66	X	---	---	---	R	A	---	X <sup>1</sup>	BA	---	---	---	---	---	---	5-31
<b>912580</b> KAX DIS 951r WP Manual Call Point, red	IP 67	X	---	EN 54-11	X	R	A	---	---	---	---	---	---	---	---	---	5-35
<b>908711</b> dc31 Ex Manual Call Point, red	IP 66	---	1 21	VdS EN 54-11 ATEX	---	R	G	---	X <sup>1</sup>	---	---	---	---	---	---	---	5-45
<b>901321</b> KAX95 Ex Manual Call Point, red	IP 67	---	0 20	EN 54-11 ATEX	X	R	A	---	---	---	---	---	---	---	---	---	5-43
<b>906940</b> DMX3100 Manual Release, yellow	IP 66	---	---	VdS EN 12094-3	---	R	G	---	X <sup>1</sup>	---	---	X	---	---	---	---	5-37
<b>918154</b> DMX3100, yellow	IP 66	---	---	---	---	R	G	---	X <sup>1</sup>	---	---	X	---	---	---	---	5-41
<b>907024</b> DMX3100 2GRU Manual Release, yellow	IP 66	---	---	VdS EN 12094-3	---	R	G	---	X <sup>1</sup>	---	---	---	---	X	---	---	5-38
<b>908623</b> DMX3195-I Manual Release, yellow	IP 66	X	---	VdS EN 12094-3 EN 54-17	---	R	A	---	X <sup>1</sup>	LU	---	---	---	---	---	---	5-30
<b>910553</b> DMX3195-I, yellow	IP 66	X	---	---	---	R	A	---	X <sup>1</sup>	BA	---	---	---	---	---	---	5-32
<b>908712</b> dc31 Ex Manual Release, yellow	IP 66	---	1 21	VdS EN 12094-3 ATEX	---	R	G	---	X <sup>1</sup>	---	---	---	---	---	---	---	5-46
<b>912581</b> KAX95 Ex Manual Release, yellow	IP 67	---	0 20	ATEX	X	R	A	---	---	---	---	---	---	---	---	---	5-44
<b>907021</b> DMX3100 Emergency Button, blue	IP 66	---	---	VdS EN 12094-3	---	T	G	---	X <sup>1</sup>	---	---	---	X	---	---	---	5-37
<b>918155</b> DMX3100, blue	IP 66	---	---	---	---	T	G	---	X <sup>1</sup>	---	---	---	X	---	---	---	5-42
<b>910554</b> DMX3195-I, blue	IP 66	X	---	---	---	T	A	---	X <sup>1</sup>	BA	---	---	---	---	---	---	5-33
<b>908713</b> dc31 Ex Emergency Button, blue	IP 66	---	1 21	VdS EN 12094-3 ATEX	---	T	G	---	X <sup>1</sup>	---	---	---	---	---	---	---	5-46

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# Manual call points

## DMX Outdoor Application

### Overview outdoor application

Application Accessories Replacement	Application								Accessories		Replacement						Catalogue chapter
	IP rating	Short circuit isolator	Ex Zone	Approvals/ Norms (further approval on catalogue page)	Alarm-LED	Latching contact (R) Non-Latching contact (T)	Conventional (G) Addressable (A)	Silicone-free	Special labeling for white inside panel (907192)	Individual labeling (outside)	Board DMX3100 SUX95, switch (907890)	Board DMX3100 SUX95, button (907912)	Board DMX3100, switch (907883)	Board DMX3100, button (907884)	Board DMX3100, 2GRU, switch (907887)	Board DMX3100, ZDP, switch (907886)	
<b>907022</b> DMX3100 2nd Release, green 	IP 66	---	---	VdS EN 12094-3	---	T	G	---	X <sup>1</sup>	---	---	---	X	---	---	---	5-37
<b>918156</b> DMX3100, green 	IP 66	---	---	---	---	T	G	---	X <sup>1</sup>	---	---	---	X	---	---	---	5-42
<b>910824</b> DMX3195-I, green 	IP 66	X	---	---	---	T	A	---	X <sup>1</sup>	BA	---	---	---	---	---	---	5-33
<b>908714</b> dc31 Ex 2nd Release, green 	IP 66	---	1 21	VdS EN 12094-3 ATEX	---	T	G	---	X <sup>1</sup>	---	---	---	---	---	---	---	5-46
<b>909032</b> DMX3100 variable 	IP 66	---	---	X2	---	X <sup>2</sup>	G	AA	X <sup>1</sup>	X <sup>1</sup>	---	X <sup>2</sup>	X <sup>2</sup>	---	---	---	5-39
<b>910725</b> DMX3195-I variable 	IP 66	X <sup>2</sup>	---	X2	---	X <sup>2</sup>	A	AA	X <sup>1</sup>	X <sup>1</sup>	---	---	---	---	---	---	5-34
<b>Older DMX versions</b> 	---	---	---	---	---	---	---	---	---	---	X <sup>2</sup>	X <sup>2</sup>	X <sup>2</sup>	X <sup>2</sup>	X <sup>2</sup>	X <sup>2</sup>	---

X<sup>1</sup> = Manual Call Point is perhaps not approval compliant

X<sup>2</sup> = Depending on the variable type of detector

AA = On request

LU = Included in delivery (see labeling table at the product page)

BA = Information about the labeling required



## Manual call points

### DMX Indoor Application, Conventional

#### Pull station P32-1T



#### Product features

- Single pole, single throw (H/O) with a potential free contact for alarm
- For indoor use

#### Technical specifications

Function	Snap action switch
Contact Voltage	max. 30 V DC/1A
Enclosure material	Diecast enclosure
Colour	red
Specification according to	UL standard 38, 1999 Edition
LED	nonexistent
Weight	440 g (1.0 lbs)
Dimensions	80 x 119 x 22 mm (WxHxD) 3.2 x 4.7 x 0.9 inch (WxHxD)
Contact	1 NO contact1

#### Approvals / marking



#### Part no.: 918434

Pull station for indoor use.  
The pull station is a „single action“ device. By pulling the white operating handle straight down the handle will lock into place and the contact is triggered.

#### Included in delivery

Pull station P32-1T  
Mounting hardware  
Key

#### Not included in delivery

Back Box  
End of line-resistor (EOL)  
Alarm resistor

#### Connecting / mounting

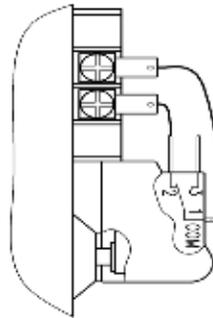
Connection cable

2-wire

#### Note

Applicable for operation at a conventional group of the fire alarm and extinguishing panel FMZ 5000.  
Distribution only to non-EU countries.

#### Connection diagram





## Notes

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## Notes

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## PRODUCTS & SOLUTIONS

To address a wide spectrum of fire risk and challenges, Viking offers a broad and comprehensive range of products, systems and solutions classified into these four product groups:

- **Water** - Water based fire suppression technologies
- **Foam** - Foam based fire suppression technologies
- **Gas** - Gaseous and clean agent based fire suppression technologies
- **Fire Alarm & Detection** - Fire detection and warning technologies

 <b>WATER</b>	<b>Fire Sprinklers</b> <ul style="list-style-type: none"> <li>• Standard Coverage</li> <li>• Extended Coverage</li> <li>• Storage</li> <li>• Dry</li> <li>• Special</li> <li>• Residential</li> <li>• Nozzles</li> </ul>	<b>Valves</b> <ul style="list-style-type: none"> <li>• Wet / Alarm</li> <li>• Deluge &amp; Preaction</li> <li>• Dry Pipe</li> <li>• Pressure Regulating</li> <li>• Butterfly</li> <li>• Gate</li> <li>• Check</li> </ul>	<b>Flexible Sprinkler Hose</b> <b>Escutcheons</b> <b>Guards &amp; Shields</b> <b>Test &amp; Drain</b> <b>Multiple Jet Control</b> <b>Wrenches &amp; Adapters</b> <b>Flow Meter &amp; Proving Pipe</b> <b>Water Mist Systems</b>
 <b>FOAM</b>	<b>Storage Tanks</b> <ul style="list-style-type: none"> <li>• Vertical Bladder Tank</li> <li>• Horizontal Bladder Tank</li> <li>• Atmospheric Storage Tank</li> <li>• Tank Accessories</li> <li>• Pre-assembled Foam Bladder Tank</li> </ul>	<b>Discharge Devices</b> <ul style="list-style-type: none"> <li>• Foam Generator</li> <li>• Foam Sprinkler / Nozzle</li> <li>• Grate Nozzle</li> <li>• Tank Protection</li> </ul> <b>Monitor Equipment</b> <b>Foam Pump Products</b>	<b>Proportioning Devices</b> <ul style="list-style-type: none"> <li>• ILBP / Balanced Proportioner</li> <li>• In-line Eductor</li> <li>• Ratio Controller</li> <li>• Wide range Proportioner</li> </ul> <b>Valves &amp; Accessories</b> <b>Foam Concentrates</b>
 <b>GAS</b>	<b>CO2</b> <ul style="list-style-type: none"> <li>• High Pressure</li> <li>• Low Pressure</li> </ul> <b>Clean Agent Systems</b> <ul style="list-style-type: none"> <li>• FM-200® Systems</li> <li>• Novec™ 1230 Systems</li> </ul>	<b>Inert Gas Systems</b> <ul style="list-style-type: none"> <li>• IG-01</li> <li>• IG-100</li> <li>• IG-55</li> <li>• IG-541</li> </ul>	<b>Pre-Engineered Systems</b> <ul style="list-style-type: none"> <li>• FM-200® Systems</li> <li>• Novec™ 1230 Systems</li> </ul> <b>Cabinet Protection System</b> <b>Server Rack Protection System</b>
 <b>DETECTION</b>	<b>Control Panels</b> <ul style="list-style-type: none"> <li>• Addressable</li> <li>• Conventional</li> <li>• Extinguishing</li> <li>• Mimic</li> </ul>	<b>Detectors</b> <ul style="list-style-type: none"> <li>• Smoke</li> <li>• Heat</li> <li>• Flame</li> <li>• Infra Red</li> <li>• Beam</li> </ul>	<b>Manual Call Points</b> <b>Strobes</b> <b>Sounders</b> <b>Bells</b> <b>Interface Modules</b> <b>I.S. / Explosion Proof Devices</b> <b>Marine Application Field Devices</b>

## VIKING ASIA NETWORK

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#### **SINGAPORE (Asia Headquarters)**

##### **The Viking Corporation (Far East) Pte Ltd**

69 Tuas View Square  
Westlink Techpark  
Singapore 637621  
Tel: (+65) 6278 4061  
Fax: (+65) 6278 4609  
Email: VikingAPAC@vikingcorp.com

#### **CHINA**

##### **Viking Fire Protection Equipment Trading (Shanghai) Co. Ltd.**

Room 507-511, Fourth Floor, Building A  
No. 801, Zhujin Road  
Songjiang District  
Shanghai 201615  
China  
Tel: (+86) 21 5774 0775  
Fax: (+86) 21 5776 0329  
Email: WYU@vikingcorp.com

#### **HONG KONG**

##### **Viking Supply Network (HK) Limited**

Unit C, 6th Floor,  
Gee Hing Chang Industrial Building  
No. 16 Cheung Yue Street  
Cheung Sha Wan, Kowloon,  
Hong Kong  
Tel: (+852) 2391 1078  
Fax: (+852) 2787 6063  
Email: KYIM@vikingcorp.com

#### **INDIA**

##### **Viking Fire Products (India) Pvt. Ltd.**

SRS Tower, Office No.137-138  
1st Floor, Main Mathura Road  
(Near Meto Station Mewla Maharajpur)  
Faridabad – 121003, Haryana, India  
Tel: (+91) 129 298 2313  
Email: SGUPTA@vikingcorp.com

#### **JAPAN**

##### **The Viking Corporation (Japan)**

AIOS Gotanda Ekimae Building 4th Floor  
1-11-1 Nishigotanda, Shinagawa-ku  
Tokyo 141-0031,  
Japan  
Tel: (+81) 3 6303 9571  
Fax: (+81) 3 6303 9572  
Email: KYOSHIMASU@vikingcorp.com

#### **KOREA**

##### **Viking Korea Limited**

#71 Gunpo-Ro, Gunpo-City  
Gyeonggi-Do  
Korea 15888  
South Korea  
Tel: (+82) 31 502 2510  
Fax: (+82) 31 438 0137  
Email: JHwang@vikingcorp.com

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