

# 922819 IR flame detector FMX5000 IR VK










- ▶ 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

Flame detectors are used to detect open flames indoor and outdoor. They respond to the light emitted from flames during combustion. Flame detectors are especially suitable for smokeless liquid and gas fires not visible for the naked eye as well as for fires of materials that contain carbon with strong smoke emission. Typical areas of application are large industrial warehouses, airplane hangars, chemical facilities, oil refineries, machine rooms, ferries and freight ships, power plants, printing plants, wood warehouses, subway tunnels.

### System overview

The following table lists the mandatory accessories required for each flame detector:

Application area	Flame detector	Accessories	
Standard	 Flame detector FMX 5000 IR F.01U.418.818	 Socket MX5000 VK F.01U.418.824	 Relay module KMX5000 RK VK F.01U.418.821
Ex zone 2, 22			

	Flame detector FMX 5000 IR 3GD F.01U.418.819	Socket MX5000 Ex VK F.01U.418.825	Relay module KMX5000 RK 3GD VK F.01U.418.822
Ex zone 1, 2, 20, 21, 22	 Flame detector FMX 5000 IR Ex F.01U.418.820	 Socket MX5000 Ex VK F.01U.418.825	 Safety barrier Ex isol. 24V 2 channel F.01U.418.823

### Regulatory information

Region	Regulatory compliance/quality marks	
Europe	DoP	922819 IR flame detector FMX5000 IR VK
	CE	IR flame detectors FMX5000 IR VK, Ex
USA	FM	US_FM_922819 IR flame detector FMX5000 IR VK
Germany	VdS	G 217027 IR flame detectors FMX5000 IR VK, IR 3GD
	VdS	G 221020 Relay modules KMX5000 RK VK, KMX5000 RK 3GD VK
Ukraine	DCS	UA.CRT.00174-21 IR flame detectors FMX5000 IR VK, Ex, 3GD

## Parts included

Quantity	Component
1	922819 IR flame detector FMX5000 IR VK

For the operation of the flame detector, following accessories must be ordered:

- 929144 Relay module KMX5000 RK VK
- 924441 Socket MX5000 VK

## Technical specifications

### Electrical

Auxiliary current (mA) (flame detector+relay module)	17 mA – 46 mA
Operating voltage (VDC)	7.6 VDC – 30 VDC

### Mechanical

Dimensions (Ø x H) (mm)	100 mm x 50 mm
LED color	Red; Yellow; Green
Material	Aluminum
Weight (g)	820 g

### Environmental

IP rating	IP66; IP67
Operating relative humidity, non-condensing (%)	95%
Operating temperature (°C)	-40 °C – 80 °C
Specification according to	EN 54 Part 10

### Operation

Detection angle (°)	90°
LED indication	Multi-color
Optical indication	LED
Sensitivity class	Adjustable x (50 m) 1, 2, 3
Range	Class 1: 0.1 m <sup>2</sup> n-heptane at 25m Class 2: 0.1 m <sup>2</sup> n-heptane at 17m

Class 3: 0.1 m<sup>2</sup> n-heptane at 12m

## Ordering information

### 922819 IR flame detector FMX5000 IR VK

Triple IR flame detector for the detection of typical fires

Order number **922819**

### Accessories

#### 929144 Relay module KMX5000 RK VK

Relay module for the operation of the FMX5000 IR VK flame detector

Order number **929144**

#### 924441 Socket MX5000 VK

Socket for the FMX5000 IR VK and FMX5000 IR 3GD flame detectors

Order number **924441**

#### 904757 Bracket MX5000

Mounting bracket for the MX5000 VK and MX5000 Ex VK flame detector sockets

Order number **904757**



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