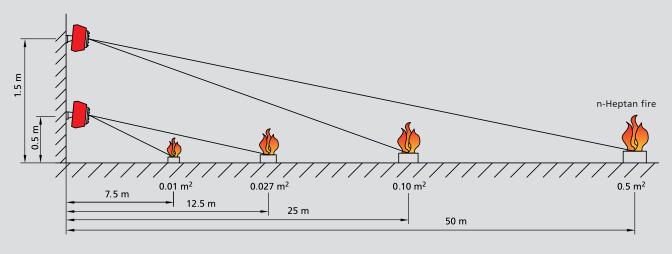*Cool down.*
Fire Protection by

MINIMAX

Flame detector UniVario FMX5000 UV – the watchful eye

► Product   ► Application   ✚ Advantages

► The FMX5000 UV flame detectors evaluate the UV range of the optical spectrum.

► FMX5000 UV flame detectors meet the highest sensitivity class 1 in accordance with EN 54-10.

► Fire-specific signals are digitally processed by the microcontroller. A high degree of safety against false alarms is thus ensured, e.g. lightning.

► The detector window is monitored for optical integrity in the UV spectral range.

► The integrated microcontroller monitors the function of the detector. Faults can be displayed on the detector and signalled to the fire control panel.

► Heavy-duty industrial housing for rough industrial applications.

► FMX5000 UV flame detectors are designed to detect open flames that can be caused by the combustion of solid or liquid materials (e.g. plastics, wood, metals, gases, oil products, etc.).

► Typical applications include:
– Tank farm monitoring
– Heating and coal-fired power plants
– Motor test benches
– Large industrial plants
– Airplane and helicopter hangars
– Chemical storages and chemical production plants
– Fuel stores
– Pump stations
– Magnesium dry treatment (milling)
– Print shops
– Wood product industry

► Approvals: VdS, FM

✚ Monitoring of the function of window, sensor, soft- and hardware controlled by microcontroller.

✚ Maximum response sensitivity.

✚ High resistance to interference, due to intelligent evaluation algorithms.

✚ Application parameter is set via DIP switch or service device.

✚ Specific customer evaluation algorithms possible for special applications.

✚ Special oil-tight, chemical-resistant and silicone-free versions available.

✚ Optional upgrades:
– Communication module for use as a ring bus participant
– Relay module with floating contacts for disturbance and alarm

✚ Various installation adapters available.

✚ Comprehensive service options.

Function

Typical response sensitivites with n-Heptan fires

Diagram labels: 1.5 m, 0.5 m, n-Heptan fire, 0.01 m², 0.027 m², 0.10 m², 0.5 m², 7.5 m, 12.5 m, 25 m, 50 m

► As the first flame detector suitable for industrial use, the UniVario FMX5000 UV can be integrated into an Apollo bus system, thanks to the optional UniVario KMX5000 AP communication module. Individual alarm identification and parameterisation is therefore possible.

► A separate cable connection port makes installation and maintenance particularly easy and inexpensive.

► The large range of power supply and an optional module with relay contacts enable the stand-alone mode and application in different danger alarm or control units.

► Because it requires so little energy, ultra thin cables can be used and many sensors can be placed along one line.

► Converting from limit mode to ring bus mode can be achieved simply by installation of a communication module – there's no need to switch cables.

► The new, innovative housing design is extremely robust, seawater-resistant and with IP 67 rating. The FMX5000 UV can be utilised very successfully in the most heavy-duty industrial application environments.

► Modern EMC requirements are far exceeded, due to design measures on the housing and safety-orientated electronics design.

► Failure signals can be registered at central position via a separate current increasing line.

► A service device to simplify configuration, diagnosis, function checks and data archiving is available.

► Analysis of internal history storage by using the UniVarioView service software.

Technical data

Type	Features	Spectral sensitivity	Temperature range of operation	Type of protection	External display	Approval	Monitoring surface (VdS) rel. to risk m²
UniVario FMX5000 UV	Alarm/disturbance and function LED Optional upgrades: – Communication module – Relay module Can be configured according to your needs Service interface Data storage Power supply 7.6 V to 30 V DC	185 nm to 260 nm	−20 °C to +80 °C	IP 67	Can be connected	VdS G206132 EN 54-10 class 1 FM 3030815	max. 676 m² Room height max. 45 m

Subject to technical modifications

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