



## UniVario WMX5000 FS – heat detector for high temperature ranges

*Cool down.  
Fire Protection by*

**MINIMAX**

### ► Product ► Application + Advantages

► WMX5000 FS heat detectors detect a rise in temperature resulting from a fire and are specially designed for high temperature ranges of up to 850 °C.

► In addition to a maximum temperature reading, a quick increase in temperature can also be detected, resulting in early fire detection.

► Detection is carried out by a protruding sensor under constant monitoring.

► A microprocessor monitors the sensor and analyses the data.

► All response classes and indices according to EN 54-5 can be configured on the WMX5000 FS as required.

► The casing is very rugged and specially designed for application in challenging industrial environments.

► The heat sensor is made of stainless steel.

► An LCD display can be connected if necessary.

► WMX5000 FS heat detectors are designed to detect open flames which cause a quick increase in temperature, e.g.:

- flammable liquids and gases
- highly flammable solids

► They are designed for use in industrial environments, including those with aggressive conditions and high temperatures in the monitoring area.

► Potential areas of application:

- Exhaust gas ducts
- Engine test blocks
- Machine tools
- Fibreboard presses
- Chemical production
- Drying systems

► They can be used in ex-zones 2 and 22.

► Approvals: VdS, ATEX FM approval applied for.

+

Heat detector for a wide range of applications in the industrial field with a response temperature of up to 850 °C.

+

Microprocessor-controlled monitoring of the heat sensor and soft and hardware.

+

Early fire detection with low risk of false alarms.

+

Application-specific configuration of signal processing.

+

Supervising typical disturbance variables using intelligent evaluation algorithms.

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High electromagnetic tolerance.

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Different installation options.

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Protruding heat sensor for flexible installation options.

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High degree of protection (IP 67), oil-tight, impact and vibration-resistant.

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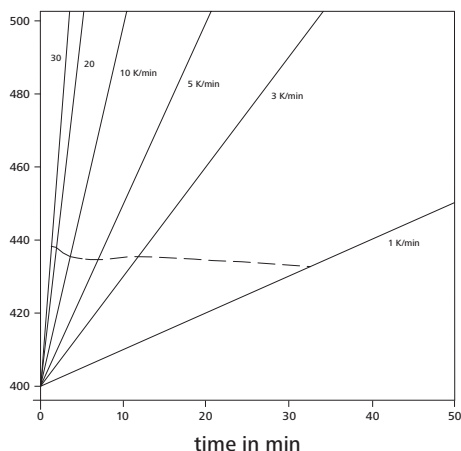
Optional upgrades:

- Communication module for use as a ring bus detector
- Relay module with floating contacts for disturbance and alarm

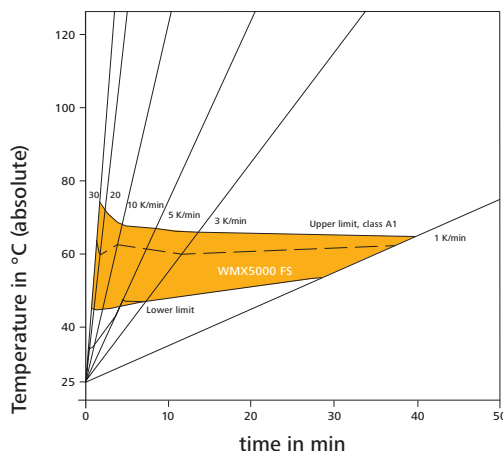
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Comprehensive service options.

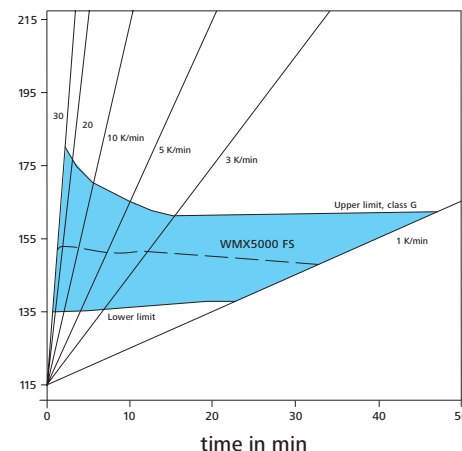
## Response behaviour of the UniVario WMX5000 FS at different increases in temperature.



--- WMX5000 FS response behaviour at the threshold temperature of 435 °C



■ Stipulated alarm range according to EN 54-5 class A1  
--- WMX5000 FS response behaviour



■ Stipulated alarm range according to EN 54-5 class G  
--- WMX5000 FS response behaviour

- ▶ The UniVario WMX5000 FS is an innovative, intelligent fire detector which, thanks to its modular concept, can be tailored to meet the unique demands of individual applications based on a uniform platform.
- ▶ As the first high-temperature heat detector suitable for industrial use, the UniVario WMX5000 FS 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.
- ▶ Online temperature display with base UniVario MX5000 LCD.

- ▶ 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 protruding thermoelectric alarm sensor can be mounted flexibly or as a sensor rod.
- ▶ The threshold temperatures and differential response can be configured according to your needs.
- ▶ The optional LCD display simplifies the function checks and monitoring operating conditions.
- ▶ A service device to simplify configuration, diagnosis, function checks and data archiving is available.
- ▶ Analysis of the internal history storage by using the UniVarioView service software.

## Technical data

Type	Features	Response threshold	Temperature range of operation	Type of protection	External display	Approval
UniVario WMX5000 FS	High-temperature detector Protruding sensor, functions monitored	Response class according to EN 54-5 A1, A2, B, C, D, E, F, G Indices according to EN 54-5 S, R	-20 °C to +80 °C	IP 67	Can be connected	VdS G207091 EN 54-5 class DS, GS ATEX zone 2/22
UniVario WMX5000 FS 3GD	Alarm/disturbance and function LED  Optional upgrades: - Communication module ring bus - Relay module  Can be configured according to your needs Service interface Data storage Power supply 7.6 V to 30 V DC	Adjustable between the alarm temperatures of 0 °C and 400 °C (Special models up to 850 °C) with a service device				FM approval applied for (3030832)

Subject to technical modifications

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