# UniVario WMX5000 heat detector – the new industrial standard

Safe for certain.

MINIMAX

► Product   ► Application   + Advantages

► The WMX5000 industrial heat detector detects a rise in temperature resulting from a fire.

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

► The A1, A2, B and C response classes and the S and R indices according to the EN 54-5 can be configured on the WMX5000 as required.

► A microprocessor analyses the data.

► The alarm sensor is constantly monitored.

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

► The heat sensor is made of stainless steel.

► Quick release mounting attachment makes the WMX5000 well suited for installation on ducts.

► WMX5000 heat detectors are designed to detect open flames which cause a sharp increase in temperature, e.g.:
– flammable liquids and gases
– highly flammable plastics

► They are designed for use in dirty industrial environments both inside and out.

► Potential areas of application:
– Production halls
– Painting facilities
– Transformers
– Printing presses
– Incinerating plants
– Machine tools
– Channel monitoring
– Process industry

+ 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.

+ High electromagnetic tolerance.

+ Different installation options.

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

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

+ Comprehensive service options.

+ Stainless steel sensor.
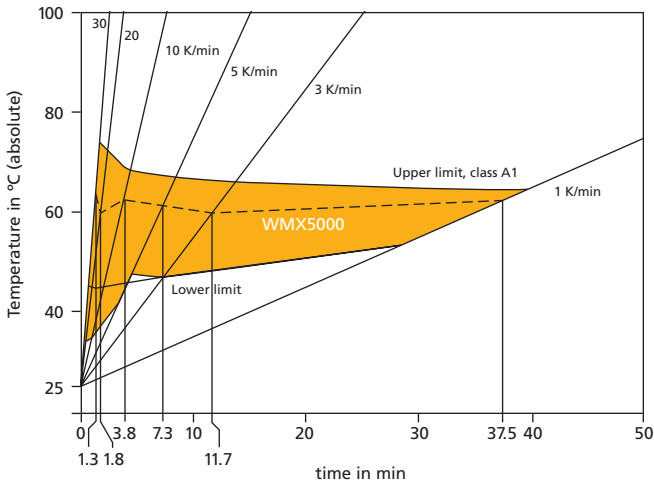
Stipulated alarm range according to EN 54-5 class A1

--- WMX5000 response behaviour
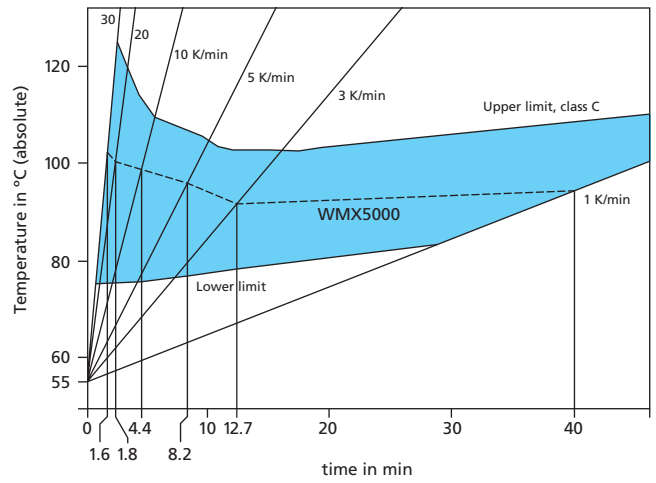
Stipulated alarm range according to EN 54-5 class C

--- WMX5000 response behaviour

► The UniVario WMX5000 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 heat detector suitable for industrial use, the UniVario WMX5000 can be integrated into an Apollo bus system, thanks to the optional KMX5000 AP ommunication module. Individual alarm identification and parameterisation is therefore possible.

► The large power supply area 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 threshold temperatures between 0 °C and 90 °C, the response class and differential and statical response can be programmed according to your needs.

► Accessible connections and a standard clamp simplify installation of all products.

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

Technical Data

Type	Features	Response threshold	Temperature range of operation	Type of protection	External display	Approval
UniVario WMX5000	Sensor monitored function 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	Response classes according to EN 54-5 A1, A2, B, C, D* Indices according to EN 54-5 S, R Adjustable between the alarm temperatures of 0 °C and 90 °C (105 °C*) with a service device	–20 °C to +80 °C	IP 67	Can be connected	VdS pending EN 54-5 class A1, A1S, A1R, A2, B, C, D*

*Only the WMX5000 with single-hole installation

Subject to technical modifications