

Fire Multi Detector DATA SHEET



The key to preventing fires - especially large fires - is to reduce the time between the outbreak of fire and its detection using optical-thermal detectors in conjunction with patented detection software.

This software allows the detection of smoke, temperature and natural flames with a single detector. Influencing factors such as clouds, sun, fog, dust and heat emitting vehicles do not cause false alarms. This means that this solution is ideal for use inside and outside, particularly if large areas need to be monitored.

24/7 availability together with intelligent information processing offers a high degree of safety and ensures that all relevant parties are immediately informed, alerted and provided with important additional information.

With this solution, large fires and their dramatic consequences for people, operations and the environment are things of the past.

Main features

- Monitoring of inside, outside and dynamic areas (conveyor belts)
- Colour-based and intensity-based flame and smoke detection analyses give a high detection rate and minimal false alarms.
- The Fire Multi Detector has an integral thermopile module that analyses temperatures in the detection zone.
- Integrated evaluation unit
- Day-dependent and time-dependent detection parameters are possible.
- The secure transmission of alarms with a live still frame in the SMD app allows incidents to be checked visually and enables an improved awareness of the current situation in real time.
- An internal memory allows events to be reviewed and analysed.

Options

- Central visualization of detector readings
- Enhanced soiling protection
- Configurable deletion
- Connection to existing fire alarm systems

Technical data		
Dimensions	L x W x H: 373 x 263 x 100 mm	
Operating voltage	12 - 24 V DC (PoE possible)	
Output	4,5 W	
Degree of protection	IP66	
Operating temperature	Operation: -20°C bis 50°C Storage: -10°C bis 70°C	
Air humidity during operation	20% to 80% relative air humidity (non-condensing)	
Weight	3.0 kg	
Approvals	CE lable, corresponds to FCC Part 15 CFR47, RoHS-conform	
Variants		
	FMD 10	FMD 35
Distance	Up to 30 m	Up to 80 m
Optical detection range	H: 85° · V: 63°	H: 34° · V: 25°
Thermal detection range	H: 90°	H: 39°
Thermal resolution	H: 82 px · V: 62 px	
Temperature range	-30°C to 300°C	
Monitoring area	30 cm fire: 70 m ² 60 cm fire: 290 m ²	30 cm fire: 450 m ² 60 cm fire: 1,850 m ²

Technical data	
Detection	Flammen-, Rauch- und Temperaturerkennung
Image sensor	1/4 Zoll CMOS mit progressiver Abtastung
Automatic gain control (AGC)	Automatisch und manuell
WDR image optimisation	>80 dB
Signal to noise ratio	>50 dB
Minimum lightning intensity	20 lx (Lux) IR floodlight, required for smoke detection. Fire detection and temperature monitoring are fully functional even in complete darkness.
Memory capacity	Integrated moemors on internal SD card (up to 64 GB)
Available archiving formats	JPEG and MPEG-4
Alarms and relays	4 potential-free relay outputs Relays 1-3: 600 mA at 60 V DC Relay 4: 2,2 A at 60 V DC

