Fire Safety Detector

DATASHEET

The key to our solution to prevent in particular largescale fires is the reduction of the time between the emergence of a fire and its detection.

This is achieved by combining optical detectors with a patented detection software. This facilitates the detection of smoke, increased temperatures and of course flames with a single detector module.

Influencing factors such as clouds, sun, fog, dust or heat-emitting vehicles do not lead to annoying false alarms. Therefore, this solution is ideally suited for out-door areas, which present a great challenge for detection.

The 24/7 availability together intelligent information processing provides for a high degree of security at all times to ensure that all relevant contacts are immediately informed, alert-ed and provided with important additional information.

With this solution, large fires in recycling centres with all their dramatic consequences for people and operations as well as the environment are things of the past.

Main Features

- Color and intensity-based flame detection analyzes lead to a high detection rate and minimized false alarms.
- The secure transmission of video alarms enables the visual review of incidents and an improved situation awareness.
- Events are logged and associated footage is indexed for quick information retrieval.
- Two separate sets of detection parameters for different periods of time to account for changes in the operating process.
- Full forensic analysis of recorded footage can be performed remotely over a secure internet connection to analyze the source.
- The dynamic masking functions can exclude certain conditions that have to be monitored at all other times.
- Internal recording enables the review and analysis of events.
- The Fire Safety Detector has a built-in thermopile module that detects heat everywhere in the detection area.

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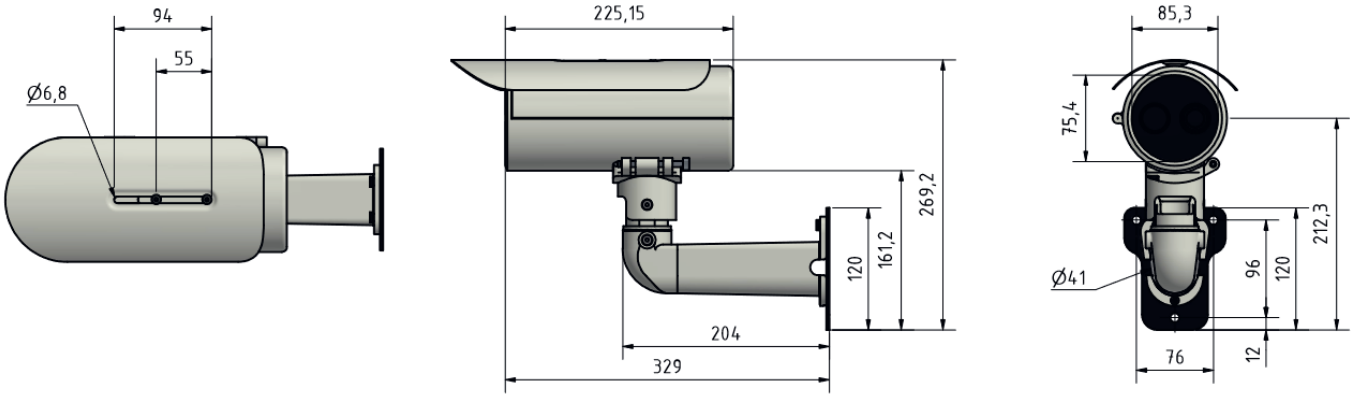
Technical Specification			
Image Sensor	1/4" CMOS progressive scan		
AGC	Automatic and manual		
WDR	>80 dB		
Signal to Noise Ratio	>50 dB		
Minimum Illumination	20 lux of IR flood lights required for smoke detection, flame detection and thermopile (FVMD) are fully functional in complete darkness.		
Electronic Shutter	Automatic or user selectable (1s to 1/100ths), 50 or 60 Hz, software selectable.		
Gain control	Automatic or fixed, 8 dB to 102 dB		
Compression	JPEG and MPEG-4		
Range	10 m	35 m	
Thermopile Specification	Field of view	Resolution	Temperature range
	6mm lens = 35°	82(h) x 62(h) pixels	-30°C to 300°C (-22°F to 572°F)
Storage	Internal SD-Card integrated recording (up to 64 GB)		

Technical Specification	
Alarms and relays	4 x non-polarized solid-state relay outputs provided. 1-3 capable of switching 600ma at 60VDC, relay 4 capable of switching 2.2A @60VDC, outputs 1-2 also configurable for Loop Monitored fire loop alarms 2 x Alarm inputs, locig level single ended
Analytics	Flame detection, smoke detection, high / low temperature

General Specification	
Power	12-24 VDC and/or PoE, 4.5 Watts
Ingress Protection Rating	IP66
Operating Temperature	Operating: -20°C to 50°C (-4°F to 122°F) Storage: -10°C to 70°C (14°F to 158°F)
Operating Humidity	20% to 80% relative humidity (Non-Condensing)
Approvals	CE marked, complies with part 15 of FCC CFR47, RoHS complient.
Product Dimensions	12½" x 10⅝" x 4" (369 x 270 x 100 mm)
Product Weight	6lb, 10oz. (3.0 kg)
Warrenty	1 year, plus additional 1 year free when the product is registered

Technical Drawing



Version 1.1 · We reserve the right to make technical changes without notice

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