

Optical-Thermal Detector

AMS-58000-700

- **ADM loop technology with Apollo/Discovery protocol**
- **Combination of optical and thermal characteristics of fire**
- **Alarm temperature 58°C**
- **Several sensitivity levels as well as thermal-only and optical-only operation selectable**
- **Constant response sensitivity**
- **Sealed electronics**



Description

The addressable Optical-Thermal Detector AMS-58000-700 uses the scattered light principle as well as a separate thermal detection unit. It was developed to detect the characteristics of fire in a wide range of applications, and to avoid deceptive alarms. The modern design of both measurement systems and the analysis of the parameters by means of a defined algorithm allow to reliably evaluate the characteristics of fire.

The response sensitivity and the operating mode of the detector can be selected in 5 steps (optical-only operation, thermal-only operation as well as three multisensor levels), via the fire detection control panel.

The proven ADM loop technology with Apollo/Discovery protocol establishes a permanent communication between the fire detection control panel and the de-

tor. That ensures a periodical function testing of the detector.

The influence of contamination of the optical measurement system is compensated for by using intelligent evaluation algorithms. With that, the response sensitivity of the detector is kept constant for a long time – a further effective step to avoid false alarms.

The two LEDs with 360° visibility indicate the activated condition of the detector. The detector address is selected by means of a code card in the detector base. Therefore the detector can be changed without additional tools.

The detector can be attached to various bases and it can be protected against theft.



Specifications

Operating voltage	Supply through loop voltage
Current consumption	typ. 500µA (quiescent)
Alarm temperature	58°C (maximum-heat component)
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 – 95% (no condensation)
Dimensions ø × H	100 × 50 (mm)
Colour	white
Weight	105g
Approvals	VdS G299038
Order number	241022
Order name	Optical-Thermal Detector/Anal./Disc/Apo AMS-58000-700



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