SIEMENS



AlgoRex

Infrared flame detectors

DF1191 DF1192

- DF1191 Flame detector for simple inside applications
 - Detection with one infrared sensor
- DF1192 Flame detector for the most demanding application requirements (inside and outside)
 - Triple-sensor evaluation: Detection in various wavelengths, microprocessor-controlled signal evaluation
 - Selective evaluation of flicker frequency
 - Selectable application algorithms
 - Excellent immunity to false alarms thanks to a combination of fuzzy logic and Wavelet analysis
- Highest resistance to:
 - electromagnetic influence
 - sunlight and heat radiation
 - humidity and corrosion
- Directly connectable to Cerberus interactive, AnalogPLUS and collective fire detection systems
- Can also be connected to non-Cerberus control units with collective signal evaluation
- Wide operating temperature range

Fire & Security Products

The infrared flame detectors are suitable for the detection of smokeless combustible liquid and gas fires, as well as smoke-forming open fire involving carbonaceous materials as contained in wood, plastics, gases, oil products etc.

Typical fields of application

Large industrial warehouses Hangars for military and civil aircraft Chemicals production plants Chemicals stores Oil refineries Petrol storage and pump stations Arc welding workshops Ferries and cargo boats Ships' engine rooms Power plants Transformer stations Printing works Motor test beds Malls Wood stores Underground tunnels

Operating principle



Emergency activation channel

In order to safeguard against a possible decision emergency, the detector contains an additional emergency activation channel.

Design



The two-component, enamelled, aluminium housing contains the sensors, the evaluating electronics and the programming switch and also shields the detector from electromagnetic interference (EMI).

The base comprises a robust, glassfibre-reinforced, plastic housing which provides the required isolated installation of the detector.

- The base contains: - screwless terminals
- chokes to protect against EMI
- a plug attachment for the detector
- six M20x1.5 cable entry possibilities.

The base is required when the wiring is being installed. The flame detector is inserted in the base shortly before commissioning.

The flame detector is connected by being plugged into the base.

Accessories



The MV1 mounting bracket is used to fix the flame detector at the correct angle.



The MWV1 ball and socket joint is used to line up the flame detector with the object to be monitored.



The DFZ1190 rain hood protects the detector in outside applications.



The LE3 test lamp is used to make a performance check on the flame detector at a distance of up to 10m (see product data sheet LE3, e252).



Technical data

	DF1191	DF1192	
Operating temperature	−25 +70°C	−35 +70°C	
Storage temperature	−40 +75°C	−40 +75°C	
Humidity	≤100%, no heavy con- densation of window	≤100%, no heavy con- densation of window	
Protection category (IEC60529)	IP44	IP67	
Terminals	0.2 2.5mm ² (AWG 24 15)	0.2 2.5mm ² (AWG 24 15)	
Colour	pure white, ≈RAL9010	pure white, ≈RAL9010	
Standards	EN54-10 conforms with CE	EN54-10 conforms with CE	
Compatibility	Compatible with all Cerberus low voltage control units with interactive, AnalogPLUS and collective signal evaluation.		

Details for ordering

Туре	Part no	Designation	Weight
DF1191	516659	Infrared flame detector	0.500kg
DF1192	516662	Infrared flame detector	0.500kg
DFB1190	516536	Base	0.250kg
_	A5Q00004478	Screwed cable gland M20x1.5	0.035kg
DFZ1190	530266	Rain hood	0.640kg
MV1	395045	Mounting bracket	0.285kg
MWV1	367484	Ball and socket joint	0.860kg

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