SIEMENS



DF1151-Ex

Infrared flame detector

AlgoRex

CE

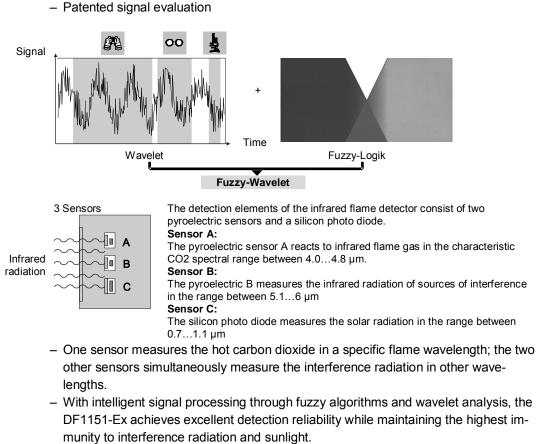
Interactive, for explosion-hazard areas of zones 1 and 2

- For inside and outside applications
- 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 patented fuzzy logic and Wavelet analysis
- Highest resistance to
 - electromagnetic influence
 - sunlight and heat radiation
 - humidity and corrosion
- Wide operating temperature range
- Connectable to interactive fire detection systems

Building Technologies

- Environmental
- ecologically processing
- recyclable materials
- electronic and synthetic material simple separable
- Characteristics
- the detector housing made of aluminum also serves as a screen against electromagnetic interference (EMB)
- the base housing consists of a robust, glass-fiber reinforced synthetic material
- protected electronics
- built-in alarm indicator (AI)
- interactive signal processing
- Explosion protection category
- The infrared flame detector DF1151-Ex is designed to the explosion protection category 'Intrinsic safety' EEx i. The standards which cover this are EN50014 (IEC60079-0) und EN50020 (IEC60079-11)

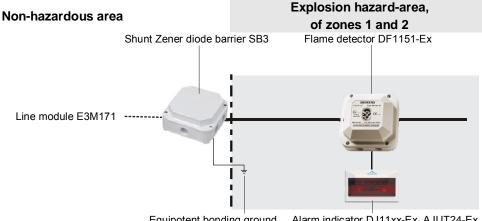
Function



- In order to safeguard against a possible decision emergency, the detector contains an additional emergency activation channel.
- Application
- Chemicals production plants, chemicals stores
- Oil refineries
- petrol storage and pump stations
- Natural gas transfer points
- Propane and butane filling installations
- All explosion-hazard areas in which flaming fires involving carbonaceous materials are to be expected

Equipment installed in explosion-hazard areas must always comply with local national regulations.

The SB3 shunt Zener diode barrier is used as an interface between explosion-hazard and non-hazardous areas.

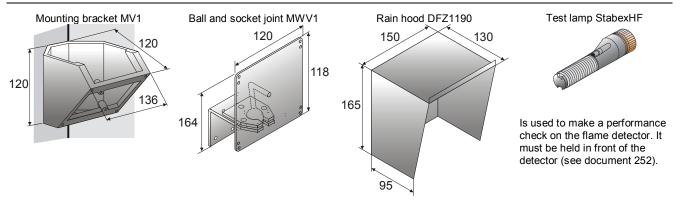


Equipotent bonding ground Alarm indicator DJ11xx-Ex, AJUT24-Ex

Further details can be found in the document

- 'Fire protection in explosion-hazard areas', no. 1204

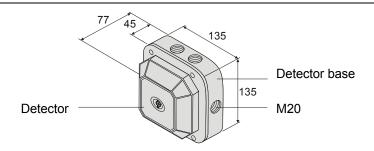




Design

- easy installation of the housing on stable, vibration-free surfaces; the detector is only inserted after installation check, shortly before commissioning
- 6 threads M20 for screwed cable glands
- connection via two-wire installation with the control unit
- ext. alarm indicator connectable
- pluggable connection between flame detector and base
- mounting bracket MV1 for room surveillance to fix the detector at the right inclination angle
- ball and socket joint MWV1 for the orientation to an object
- rain hood DFZ1190 for outside applications

Dimensions



Technical data

Alarm indicator (AI) ext. con-	2	
nectable and programmable		
Operating temperature	-35…+70 °C	
Storage temperature	-40…+75 °C	
Humidity	≤95 % rel.	
	(no heavy condensation of window)	
Connection factor IMK	3	
Connection terminals	0.22.5 mm ²	
Color	white, ~RAL 9010	
Protection category		
EN 60529 / IEC 60529	IP67	
Standards		
 for flame detector 	EN 54-10, EN 54-17	
 for explosion-hazard area 	EN 50014 (IEC 60079-0), EN 50020 (IEC 60079-11)	
Ex classification	II 2 G EEx ib IIC T4 (-35 °C ≤Ta ≤70 °C)	
Approvals	PTB 02 ATEX 2159	
Compatibility	Compatible with interactive fire detection system S11	
	Operation with stub lines only	
	Max. 32 detectors with IMK1 per E3M171	

08 C E 0786	DF1151-Ex	Siemens Schweiz AG; Theilerstrasse 1a CH-6300 Zug Technical data: see doc. 001673			
DF1151-Ex - Flame detector incl. short-circuit isolator for use in fire detection and fire alarm systems installed in buildings.					
305/2011/EU (CPR): EN 54-10 / EN 54-17 ; 2014/30/EU (EMC): EN 50130-4 / EN 61000-6-3 ; 2014/34/EU (ATEX): EN 60079-0 / EM 60079-11					
The declared performance and conformity can be seen in the Declaration of Performance (DoP) and the EU Declaration of Conformity (DoC), which is obtainable via the Customer Support Center: Tel. +49 89 9221-8000 or https://siemens.com/bt/download					
DoP No.: 0786-CPR-20496; DoC No.: CED-DF1151-Ex					

Details for ordering

Туре	Part no	Designation	Weight
DF1151-Ex	BPZ:5357820001	Infrared flame detector	0.500 kg
FDB1190	BPZ:5165360001	Base	0.250 kg
_	A5Q00004478	Screwed cable gland M20 x 1.5	0.039 kg
MV1	BPZ:3950450001	Mounting bracket	0.285 kg
MWV1	BPZ:3674840001	Ball and socket joint	0.860 kg
DFZ1190	BPZ:5302660001	Rain hood	0.640 kg
Stabex HF	BPZ:4620910001	Test lamp	0.250 kg

Disposal



The device is considered an electronic device for disposal in accordance with the European Guidelines and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

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