SIEMENS



DF1101-Ex

Infrared flame detector

Collective/SynoLINE 600 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
- Connection to the detection line via the DC1192 input/output module
 - for galvanic isolation and connection to the collective/SynoLINE 600, interactive or AnalogPLUS/SynoLOOP fire detection systems
- Connection to the detection line via the transponder FDCIO223
 - for galvanic isolation and connection to the addressable FDnet/C-NET fire detection system

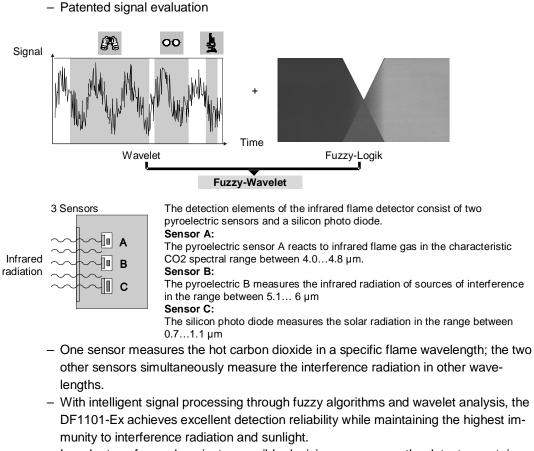
AlgoRex Synova™ Sinteso™ Cerberus™ PRO

CE

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)
- collective signal processing
- Explosion protection category
- The infrared flame detector DF1101-Ex is designed to the explosion protection category 'Intrinsic safety' Ex i. The standards which cover this are EN50014 (IEC60079-0) und EN50020 (IEC60079-11)

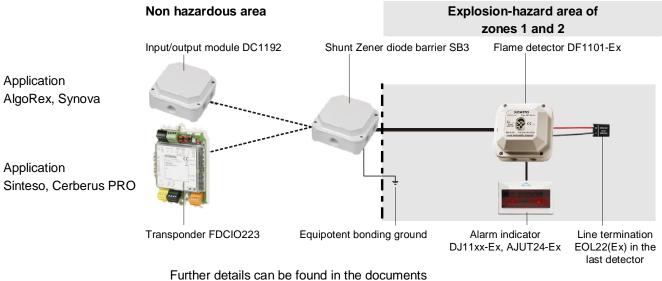
Function



- 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

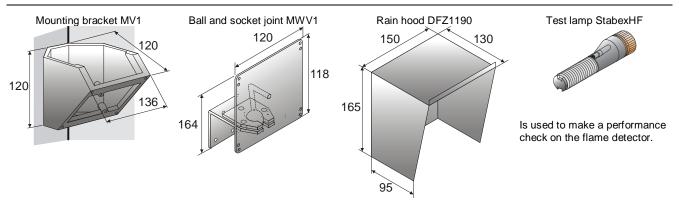
Equipment installed in explosion-hazard areas must always comply with local national regulations.

The DC1192/FDCIO223 input/output module and the series-connected SB3 shunt Zener diode barrier are used as a galvanic isolation between explosion-hazard and non hazardous areas.



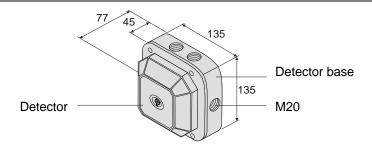
- Fire protection in explosion-hazard areas, document no. 1204
- Input/output module DC1192, document no. 001571
- Transponder FDCIO223, document no. 009168
- Shunt Zener diode barrier SB3, document no. 001222

Accessories



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



Technical data

DC 1628 V	
0.5 mA	
2	
-35+70 °C	
-40…+75 °C	
≤95 % rel. (no heavy condensation of window)	
6	
0.22.5 mm ²	
white, ~RAL 9010	
IP67	
EN54-10	
EN 50014 (IEC 60079-0),	
EN 50020 (IEC 60079-11)	
II 2 G Ex ib IIC T4 (-35 °C ≤Ta ≤70 °C)	
VdS G299085, PTB 02 ATEX 2161,	
LPCB 126bb/01	
 By using the DC1192 input/output module and 	
SB3 shunt Zener diode barrier it is compatible	
with fire detection system control units with col-	
lective/SynoLINE600, interactive or	
AnalogPLUS/SynoLOOP signal evaluation.	
 By using the FDCIO223 transponder and SB3 	
shunt Zener diode barrier it is compatible with	
fire detection system control units with	
FDnet/C-NET signal evaluation.	

08 C E 0786	DF1101-Ex	Siemens Switzerland Ltd; Gubelstrasse 22 CH-6301 Zug Technical data: see doc. 001673		
DF1101-Ex - Flame detector for use in fire detection and fire alarm systems installed in buildings.				
305/2011/EU (CPR): EN 54-10 ; 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 http://siemens.com/bt/download				
DoP No.: 0786-CPR-20497; DoC No.: CED-DF1101-Ex				

Details for ordering

Туре	Part no	Designation	Weight
DF1101-Ex	BPZ:5166750001	Infrared flame detector	0.500 kg
DFB1190	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

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