SIEMENS



FDT181C Collective Heat Detector Product Manual

Overview

The heat detector FDT181C is a collective detector. It is used for fire detection inside a building.

Characteristics

- Operation modes: A2 (Rate-of-rise and fixed temperature)
- Collective detector, no address setting, polarity free connection
- 360° visible alarm indicator
- Resistant to environment and interference factors such as humidity, corrosive and vibration, with immunity against electro-magnetic interference.

Application

- Communication with FC18 controller via FDCI183 transponder, each FDCI183 can connect max. 32 collective detectors.
- Communication with BC80 controller via BDS161 transponder, each BDS161 can connect max. 10 collective detectors.

The detector is provided with an internal alarm indicator to show its operating status.

Status	Indicator	
Normal	Off	
Alarm	Steady on	

Installation

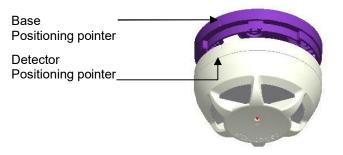
• Easy and time-saving mounting

Install the base and finish the wiring during the construction phase.

1. Insert detector into base and turn it clockwisely until positioning pointer on base align with positioning pointer on detector (see below).

Uninstallation:

1. Turn it counterclockwisely and pull the detector out of base.

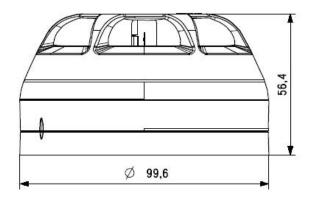




After all the construction is finished, the dust cap must be taken away! No painting!

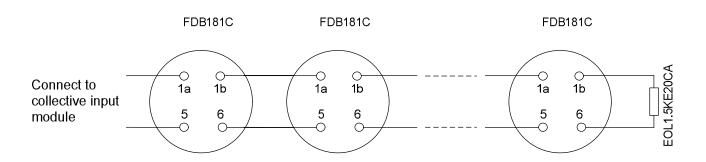
Dimensions

In: mm (with base)



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Connection diagram



Maintenance

Performance test

Recommendation:

- Submit all detectors to an annual visual check. Detectors that are strongly soiled or mechanically damaged must be replaced.
- Long term backup detectors should be stored with plastic bag.
- Carry out heat test each year.

Technical data

Operating voltage	1028 VDC	
Operating current (quiescent)	≤0.1 mA	
Activation current	≤60.0 mA	
Operating temperature	–10+50 °C	
Storage temperature	−20+70 °C	
Humidity	≤96% (40±2 °C)	
Color	White, RAL 9010	
Protection category GB4208-93	IP40	

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Specifications

No.	Name	Operating temperature typ. / max.	Static activation temperature ¹	Differential activation temperature ²
		[°C]	[°C]	ΔT [K]
1	A2S 60 °C maximum	25 / 50	60	-
2	A2R 60 °C rate of rise	25 / 50	60	25 ³

¹ Applicable with slow temperature increases <1 K/min.

Details for ordering

Туре	Material No.	Part No.	Designation	Weight
FDT181C	S54320-F12-A2	101190983	Collective heat detector	0.065 kg
FDB181C	S54320-F9-A2	101190980	Collective detector base	0.038 kg

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² Applicable with fast temperature increases >10 K/min.

³ Between 1 K/min and 10 K/min, this value increases by a few degrees.