SIEMENS



OH110, OP110, HI110, HI112 Automatic fire detectors, 110-series

Cerberus™ FIT

CE

For collective and conventional detector lines

- Signal processing with detector algorithms
- Selectable parameter sets
- 3 color LED indication
- Drift compensation
- Internal fault monitoring
- Fault indication

Building Technologies

• Environmental

- ecologically processing
- recyclable materials
- electronic and synthetic material simply separable

• Characteristics

- resistant to environment and interference factors such as dust, fibers, insects, humidity, extreme temperatures, electro-magnetic interference, corrosive vapors, vibration
- insensitive to impact, tamper protection
- protected electronics, high-quality components
- built-in alarm indicator (AI), visible at 360°
- up to 2 external alarm indicators of type FDAI91/FDAI92/FDAI93 connectable per detector
- signal processing with detection algorithms
- the same detector base type can be used for each detector type, for surface and recess supply wiring
- Optional accessories
- Detector locking device LP720 as protection against theft
- Designation plate FDBZ291
- Detector base seal RS720 for higher protection category
- Micro terminal DBZ1190-AA (0.28 ... 0.5 mm²)
- Connection terminal DBZ1190-AB (1.0 ... 2.5 mm²)

OH110 Multi-sensor smoke detector



Multi-sensor smoke detector consist of:

- Detector
- Dust cap to cover the detector for protection against dust during construction work

Function

- Works according to the scattered light principle with one sensor, optical forward scattering
- Opto-electronic sampling chamber holds off disturbing extraneous light but optimally detects smoke particles
- an additional heat sensor increases the fire detector's immunity to deceptive phenomena
- Selectable detection behavior by 2 parameter sets
 - Parameter set 1: Sensitive
 - Parameter set 2: Robust
- immunity against transient false alarm causes

Application

- for the detection of flaming fires caused by the combustion of liquid and solid matters, as well as smoldering fires
- for reliable fire detection in environments with deceptive phenomena

OP110 Optical smoke detector



Optical smoke detector consist of:

- Detector
- Dust cap to cover the detector for protection against dust during construction work

Function

- Works according to the scattered light principle with one sensor, optical forward scattering
- Opto-electronic sampling chamber holds off disturbing extraneous light but optimally detects smoke particles
- Selectable detection behavior by 2 parameter sets
 - Parameter set 1: Standard
 - Parameter set 2: Sensitive

Application

for the detection of smoke-generating flaming and smoldering fires

HI110 Heat detector (RoR)



Heat detector consist of:

Detector

Function

- Equipped with one heat sensor
- For high requirements
- Certain response behavior with slow and fast temperature increases, also by depth temperature
- Parameter set: A1R

Application

 For areas having high levels of dust, dirt or moisture that may lead to false activating with smoke detectors

HI112 Heat detector (static)



Heat detector consist of:

- Detector

Function

- Equipped with one heat sensor
- Measures the ambient temperature, when the maximum temperature is exceeded the detector sends a danger signal to the fire control panel
- Selectable detection behavior by 2 parameter sets
 - Parameter set 1: A2S
 - Parameter set 2: B

Application

 For areas having high levels of dirt or temperature fluctuation that may lead to false activating with smoke detectors

Detector base DB110 (Parameter set 1)



Function

- Standard conventional detector base for all series 110 point detectors
- Selects parameter set 1 within detectors

Application

- for recess supply wiring
- for surface supply wiring, cable diameter up to 8 mm

Detector base DB110D (Parameter set 1) for BS5839 Part 1



Function

- Conventional detector base complete with a continuity diode for all series 110 point detectors
- Selects parameter set 1 within detectors

Application

- for recess supply wiring
- for surface supply wiring, cable diameter up to 8 mm

Detector base DB110R (Parameter set 2)



Function

- Conventional detector base complete with a resistor for parameter setting for all series 110 point detectors
- Selects parameter set 2 within detectors

Application

- for recess supply wiring
- for surface supply wiring, cable diameter up to 8 mm

Detector base DB110RD (Parameter set 2) for BS5839 Part 1



Function

- Conventional detector base complete with a resistor for parameter setting and continuity diode for all series 110 point detectors
- Selects parameter set 2 within detectors

Application

- for recess supply wiring
- for surface supply wiring, cable diameter up to 8 mm

Base attachment BA720



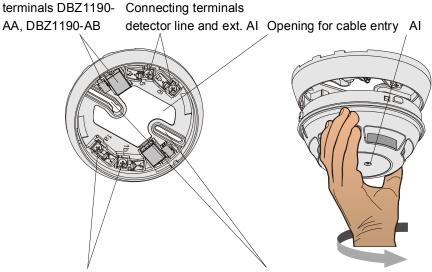
Application

- For the supply of surface-mounted tubes (max. 20 mm) and trunking (max. 25 mm x 15 mm)
- The detector is fixed with a spring-loaded catch.

• Simple installation

- Universal base with
 - 2 break outs on the side for surface supply wiring at max. Ø8 mm
 - extra large rear opening for easy recess supply wiring
- extra-large mounting slots facilitate a re-use of existing drill holes resulting from other systems
- connecting terminals for cable diameter at 2.5 mm²
- place for auxiliary terminals 2x DBZ1190-AA and 2x DBZ1190-AB

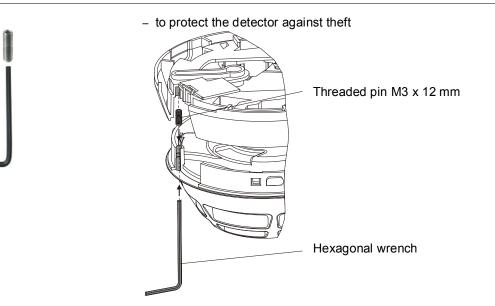
Place for auxiliary



Connecting terminals detector Mounting slots min. 40 mm up to max. 90 mm line and ext. Al

- alarm indicator (AI) centered in the detector; no alignment required

LP720 Detector locking device



FDBZ291 Designation plate



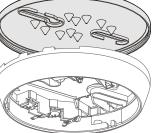
- to identify the location address
- application without detector base seal RS720 only



RS720 Detector base seal



- for higher protection category



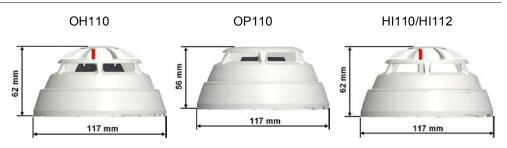
DBZ1190-AA Micro terminal, DBZ1190-AB Connection terminal



- For conductors of max. 0.5 \mbox{mm}^2
- For conductors of max. 2.5 mm²
- Support point for T-branching connection, extern alarm indicators (AI) or cable shielding
- Place for max. 2 additional terminals each



Dimensions of detector with base



Technical data

		05440		
	OH110	OP110	HI110 / HI112	
Operating voltage	DC 16 28 V	DC 16 28 V	DC 16 28 V	
Operating current (quiescent)	Max. 100µA	Max. 100µA	Max. 100µA	
Ext. alarm indicator without sounder base				
Al connectable	2	2	2	
Operating temperature	-10 +50 °C	-10 +55 °C	-10 +50 °C (HI110)	
			-10 +50 °C (HI112, A2S)	
			-10 +65 °C (HI112, B)	
Storage temperature	-30 +70 °C	-30 +70 °C	-30 +70 °C	
Humidity (short-term moisture condensa-	≤96 % rel.	≤96 % rel.	≤96 % rel.	
tion permitted)				
Communication protocol	Collective/conventional	Collective/conventional	Collective/conventional	
Color	white, ~RAL 9010	white, ~RAL 9010	white, ~RAL 9010	
Protection category EN60529 / IEC529	IP40	IP40	IP40	
 with detector base seal RS720 	IP42	IP42	IP42	
Standards	CEA4021, EN 54-7	EN 54-7	EN 54-5	
Approvals				
– VdS	G212059	G212033	G212004 / 212015	
– LPCB	request	request	request	
QS standards Siemens Standard SN 36350				

12 C	E 0786	OH110	Siemens Switzerland Ltd, Gubelstrasse 22 CH-6301 Zug, Switzerland Technical data: see doc. A6V10316298
Point multi	-sensor smoke detector for us	e in fire detection and fire alarm systems installed in buildings	
305/2011/8	EU (CPR): EN 54-7; 2004/108/	/EC (EMC): EN65030-4 / EN61000-6-3	
		e and conformity can be seen in the Declaration of Performance a able via the Customer Support center: Tel. +49 89 9221-8000 or h	
		DoP No.: 0786-CPR-21165; DoC No.: CED-OH110	
12 C	E 0786	OP110	Siemens Switzerland Ltd, Gubelstrasse 22 CH-6301 Zug, Switzerland Technical data: see doc. A6V10316298
Point smol	ke detector for use in fire detec	ction and fire alarm systems installed in buildingsetection system	
305/2011/E	EU (CPR): EN 54-7; 2004/108/	/EC (EMC): EN65030-4 / EN61000-6-3	
		e and conformity can be seen in the Declaration of Performance a able via the Customer Support center: Tel. +49 89 9221-8000 or h	
		DoP No.: 0786-CPR-21161; DoC No.: CED-OP110	
12 C	E 0786	HI110	Siemens Switzerland Ltd, Gubelstrasse 22 CH-6301 Zug, Switzerland Technical data: see doc. A6V10316298
Point heat	detector for use in fire detection	on and fire alarm systems installed in buildings	
305/2011/8	EU (CPR): EN 54-5; 2004/108/	/EC (EMC): EN65030-4 / EN61000-6-3	
		e and conformity can be seen in the Declaration of Performance a able via the Customer Support center: Tel. +49 89 9221-8000 or h	
		DoP No.: 0786-CPR-21141; DoC No.: CED-HI110	
12 C	E 0786	HI112	Siemens Switzerland Ltd, Gubelstrasse 22 CH-6301 Zug, Switzerland Technical Data: see doc. A6V10316298
Point heat	detector for use in fire detection	on and fire alarm systems installed in buildings	
305/2011/8	EU (CPR): EN 54-5; 2004/108/	/EC (EMC): EN65030-4 / EN61000-6-3	
		e and conformity can be seen in the Declaration of Performance a able via the Customer Support center: Tel. +49 89 9221-8000 or h	
		DoP No.: 0786-CPR-21142; DoC No.: CED-HI112	

Details for ordering

	Туре	Part no	Designation	Weight
	OH110	S54372-F11-A1	Multi sensor fire detector (collective)	0.144 kg
	OP110S54372-F4-A1Optical smoke detector (collective)HI110S54372-F9-A1Heat detector (collective, differential)		0.138 kg	
			0.130 kg	
HI112 S54372-F10-A1 Heat detector (collective, static)		Heat detector (collective, static)	0.130 kg	
	DB110 S54372-F5-A1 Detector base (collective)		Detector base (collective)	0.052 kg
	DB110D	S54372-F6-A1	Detector base (For BS5839, Part 1)	0.052 kg
	DB110R S54372-F7-A1 Detector base (collective)		Detector base (collective)	0.052 kg
	DB110RD	S54372-F8-A1	Detector base (For BS5839, Part 1)	0.052 kg
Accessories	LP720	S54319-F9-A1	Detector locking device (2 hexagonal	0.040 kg
			key, 100 hexagonal socket pins)	
	FDAI91	S54370-F9-A1	Alarm indicator, door frame version	0.020 kg
	FDAI92	S54370-F3-A1	Alarm indicator, surface version	0.050 kg
	FDAI93	S54370-F5-A1	Alarm indicator, flush version	0.010 kg
	BA720	S54319-F20-A1	Base attachment	0.100 kg
	FDBZ291	A5Q00002621	Designation plate (10x)	0.034 kg
	RS720	S54319-F8-A1	Detector base seal (10x)	0.014 kg
	DBZ1190-AA	BPZ:4677080001	Micro terminal 0.28 0.5 mm ²	0.001 kg
	DBZ1190-AB	BPZ:4942340001	Connection terminal 1.0 2.5 mm ²	0.007 kg

Details see equipment overview A6V10225323

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