

Cerberus™ FIT

OH110, OP110, HI110, HI112

Automatic fire detectors



Automatic fire detector for collective detector lines and conventional detector lines, 110-series

- Signal processing with detection algorithms
- Selectable parameter sets
- 3-color LED indicator
- Drift compensation
- Internal error monitoring
- Error display



Features

- Resistant to environmental and interfering influences such as dust, fibers, insects, moisture, extreme temperatures, electromagnetic interference, corrosive vapors, vibration
- Shock resistant, protection against sabotage
- Protected electronics, high-quality components
- Integrated alarm indicator (AI), located centrally, 360° visibility
- Up to 2 external alarm indicators type FDAI91/FDAI92/FDAI93 can be connected per detector
- Signal processing with detection algorithms
- Same detector base can be used for every detector type, for surface-mounted and recess-mounted supply lines

Eco-friendly

- Environmentally friendly processing
- Reusable materials
- Electronic parts and synthetic materials can be easily separated

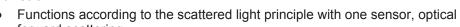
Use

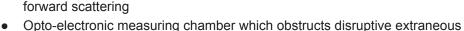
OH110 multi-sensor fire detector





- Point detector
- Detector dust cap to protect the point detector during the construction phase **Function:**





- light but provides excellent detection of smoke particles
 An additional heat sensor increases the point detector's immunity to deceptive
- phenomena
- Selectable detection behavior thanks to two parameter sets
 - Parameter set 1: 'Sensitive'
 - Parameter set 2: 'Robust'
- Immunity to false alarms

Use:

- For detection of flaming fires of solid and liquid substances as well as of smoldering fires
- For reliable fire detection in an environment with deceptive phenomena



OP110 smoke detector



Smoke detector consisting of:

- Point detector
- Detector dust cap to protect the point detector during the construction phase

Function

- Functions according to the scattered light principle with one sensor, optical forward scattering
- Opto-electronic measuring chamber which obstructs disruptive extraneous light but provides excellent detection of smoke particles
- Selectable detection behavior thanks to two parameter sets
 - Parameter set 1: 'Standard'
 - Parameter set 2: 'Sensitive'

Use:

For detection of smoke-generating flaming fires and smoldering fires

HI110 heat detector (static and differential)



Heat detector consisting of:

Point detector with one heat sensor

Function:

- For high requirements
- Reliable response behavior for slow and rapid temperature rises, plus reliable response behavior for low temperatures
- Parameter set 'A1R'

Use.

 Where significant dust or dirt deposits or high moisture levels could impair the operation of standard detectors

HI112 heat detector (static only)



Heat detector consisting of:

Point detector with heat sensor

Function:

- Measures the operating temperature, sends a danger signal to the control panel if the maximum temperature is exceeded
- Selectable detection behavior thanks to two parameter sets:
 - Parameter set 1: 'A2S'
 - Parameter set 2: 'B'

Use:

 Where significant contamination and fluctuations in temperature could impair the operation of standard detectors

Type Overview

Туре	Designation	Order no.	Weight [kg]		
OH110	Multi-sensor fire detector (collective)	S54372-F11-A1	0.144		
OP110	Smoke detector (collective)	S54372-F4-A1	0.138		
HI110	Heat detector (static and differential, collective)	S54372-F9-A1	0.130		
HI112	Heat detector (static only, collective)	S54372-F10-A1	0.130		
DB110	Detector base (collective)	S54372-F5-A1	0.052		
DB110D	Detector base for BS 5839-1	S54372-F6-A1	0.100		
DB110R	Detector base (collective)	S54372-F7-A1	0.052		
DB110RD	Detector base for BS 5839-1	S54372-F8-A1	0.100		
Accessories					
FDBZ291	Designation plate	A5Q00002621	0.002		
FDAI91	Alarm indicator, door frame	S54370-F9-A1	0.020		
FDAI92	Alarm indicator, wall version	S54370-F3-A1	0.050		
FDAI93	Alarm indicator, built-in version	S54370-F5-A1	0.010		
RS720	Detector base seal	S54319-F8-A1	0.012		
LP720	Detector locking device (2x Allen keys, 100x set screws)	S54319-F9-A1	0.001		
BA720	Base attachment	S54319-F20-A1	0.100		
BA721	Base attachment wet	S54319-F29-A1	0.272		
DBZ1193A	Designation plate	BPZ:4864330001	0.076		
FDBH291	Detector heating unit incl. micro terminal 0.280.5 mm ²	A5Q00004439	0.015		
DBZ1194	Protective cage	BPZ:4677110001	0.138		
DBZ1190-AA	Micro terminal 0.280.5 mm²	BPZ:4677080001	0.001		
DBZ1190-AB	Connection terminal 0.52.5 mm²	BPZ:4942340001	0.001		
-	Metal cable gland M20 x 1.5	A5Q00004478	0.039		

Accessories

Detector base DB110 (parameter set 1)



Function:

- Universal base for all point detectors of the 110 and OOH740 series
- Selects parameter set 1 within the point detector

Use:

- For recess-mounted supply lines
- For surface-mounted supply lines with cables up to max. Ø 8 mm

Detector base DB110D (parameter set 1) for BS 5839-1



Function:

- Conventional detector base with diode for all point detectors of the 110 series
- Selects parameter set 1 within the point detector

Use:

- For recess-mounted supply lines
- For surface-mounted supply lines with cables up to max. Ø 8 mm

Detector base DB110R (parameter set 2)



Function:

- Conventional detector base with resistor for setting the parameters of all point detectors of the 110 series
- Selects parameter set 2 within the point detector

Use:

- For recess-mounted supply lines
- For surface-mounted supply lines with cables up to max. Ø 8 mm

Detector base DB110RD (parameter set 2) for BS 5839-1



Function:

- Conventional detector base with parameter set resistor and diode for all point detectors of the 110 series
- Selects parameter set 2 within the point detector

Use:

- For recess-mounted supply lines
- For surface-mounted supply lines with cables up to max. Ø 8 mm

Designation plate FDBZ291



- For labeling with the location address
- Can only be used without detector base seal FDBZ295

Detector base seal RS720

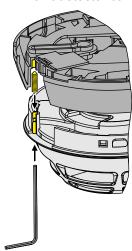


- For achieving a higher IP protection category
- Mounted between detector base and ceiling

Detector locking device LP720



- For protection against theft of the point detector
- Set screw M3 x 12 mm prevents the point detector being unscrewed from the detector base
- Point detector can only be removed with the appropriate Allen key



Base attachment BA720



Function:

- For routing surface-mounted ducts (max. 20 mm) and cable ducts (max. 25 x 15 mm)
- Detector base mounted quickly: The detector base clicks into place in base attachment BA720.

Base attachment wet BA721



- Base attachment wet with additional integrated rubber seal for mounting in wet or humid environments
- For achieving a higher protection category
- For mounting in wet or humid environments
- Required when using detector heating unit FDBH291
- Required when using protective cage DBZ1194
- Mounted between detector base and ceiling
- Detector base mounted quickly: The detector base simply clicks into place in base attachment wet BA721.

Designation plate DBZ1193A



- For labeling with the location address
- Can only be used with base attachment wet BA721

Detector heating unit FDBH291



- For operating point detectors in critical ambient conditions during icy conditions or when there is a danger of moisture condensation. Examples of application: Cold stores, attics, loading ramps, cheese cellars
- Optimum function is only guaranteed in conjunction with base attachment wet BA721.
- The point detector temperature increases by approximately 2 °C over the operating temperature and thus avoids moisture condensation on the detector.
- Mounted quickly: The detector heating unit clicks into place in the detector hase

Protective cage DBZ1194



- To protect the point detector from damage
- Can only be mounted in combination with the base attachment humid FDB293 or base attachment wet BA721

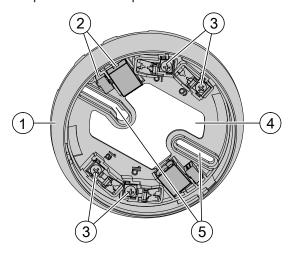
DBZ1190-AA micro terminal and DBZ1190-AB connection terminal

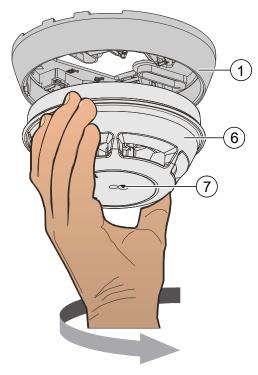


- Micro terminal DBZ1190-AA
 - Cable cross section up to max. 0.5 mm²
- Connection terminal DBZ1190-AB
 - Cable cross section up to max. 2.5 mm²
 - For connecting two external alarm indicators or the cable shielding

Installation

- Universal detector base with two break-out points for surface-mounted cable entry at the side. Max. cable diameter: 8 mm.
- Extra-long mounting slits allow existing drill holes from other systems to be reused. Hole spacing 40...90 mm
- Connection terminals for conductors up to 2.5 mm²
- Space for auxiliary terminals:
 - 2x micro terminals DBZ1190-AA and
 - 2x connection terminals DBZ1190-AB
- The internal alarm indicator is centered in the detector, which makes alignment of the point detector superfluous.





- 1 Detector base
- 2 Auxiliary terminals DBZ1190-AA, DBZ1190-AB
- 3 Connection terminals for detector line and external alarm indicator
- 4 Opening for cable entry

- 5 Mounting slits
- 6 Point detector
- 7 Internal alarm indicator

Disposal



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

- Use only designated channels for disposing the devices.
- Comply with all local and currently applicable laws and regulations.
- Dispose of empty batteries at designated collection points.

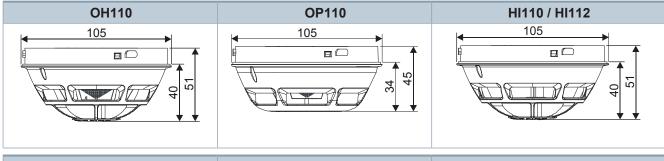
Technical data

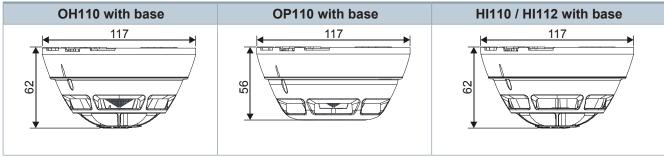
	OH110	OP110	HI110 / HI112
Operating voltage	DC 1628 V	DC 1628 V	DC 1628 V
Operating current (quiescent)	Max. 100 μA	Max. 100 μA	Max. 100 μA
Max. number of external alarm indicators that can be connected	2	2	2
Operating temperature	-1050 °C	-1055 °C	-1050 °C (HI110) -1050 °C (HI112, A2S) -1065 °C (HI112, B)
Storage temperature	-3070 °C	-3070 °C	-3070 °C
Air humidity (short-term moisture condensation permitted)	< 95 % rel.	< 95 % rel.	< 95 % rel.
Communication protocol	Collective/conventional	Collective/conventional	Collective/conventional
Color	~RAL 9010 pure white	~RAL 9010 pure white	~RAL 9010 pure white
Weight	0.144 kg	0.138 kg	0.130 kg / 0.130 kg
Protection category (IEC 60529)	IP40	IP40	IP40
Protection category (IEC 60529) with	IP42	IP42	IP42
Detector base seal RS720			
Approvals			
• VdS	G212059	G212033	G212004 / G212015

Product documentation

Document ID	Title
A6V10316298	Technical Manual Automatic fire detectors OH110, OP110, HI110, HI112
A6V10203222	Data Sheet Testequipment and accessories FDUL221, DX791, RE6, RE7T, RE8ST, RE8STCO, FDUM29x, LE3, StabexHF
A6V10316300	Installation Detector base (collective) DB110, DB110D, DB110R, DB110RD, detector base seal RS720, detector locking device LP720, base attachment BA720
A6V10393192	List of compatibility (for 'Cerberus™ FIT' product line)
A6V10406006	Installation Base attachment wet BA721, Detector designation plate DBZ1193A, Protective cage DBZ1194, EMC-protective cage FDBZ294
008115	Installation Detector heating FDBH291

Dimensional drawings





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