



OOH740, OOHHC740

Cerberus™ PRO

## Automatic fire detectors



**ASAtechnology™**

For the automatic addressable detector bus C-NET  
Collective / Conventional (OOH740 only)

- **Signal processing with ASAtechnology™**
- **Event-controlled detection behavior**
- **Analysis of the three criteria smoke, heat and gas for OOHHC740**
- **Very fast response to all carbon monoxide (CO) generating fires for OOHHC740**
- **Separate detection of the toxic CO for OOHHC740**
- **Early and reliable detection of emerging fires**
- **High immunity to deceptive phenomena**
- **Redundant sensor system**
- **Suitable for air speeds of 5 m/s**
- **Suited for future requirements thanks to programmability**
- **Communication via C-NET (individual addressing)**
- **Automatic address allocation during commissioning**
- **Ecologic material concept**
- **Collective / Conventional operation (OOH740 only)**

- **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, synthetic aerosols and atypical fire phenomena
- insensitive to impact, tamper protection
- signal processing with **ASAt<sup>SM</sup>technology**™ ('Advanced Signal Analysis')
- time- and process-dependent detection behavior
- high immunity to power electronic disturbances
- protected electronics, high-quality components
- sophisticated sensor and electronics surveillance
- redundant, high-quality sensor system
- integrated short-circuit isolator, which locate the defective part of the detector bus and insulates between 2 detectors
- built-in alarm indicator (AI), visible at 360°
- up to 2 external alarm indicators connectable per detector
- automatic address allocation during commissioning
- 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 mm<sup>2</sup>)
- Connection terminal DBZ1190-AB (1.0 ... 2.5 mm<sup>2</sup>)
- Sounder base DBS720
- Resistors PSR720 and PSR720-2 (OOH740 only)

## OOH740 Multi sensor smoke detector, ASA

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### 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 two sensor, optical forward and backward scattering
- Opto-electronic sampling chamber holds off disturbing extraneous light but optimally detects smoke particles
- two additional heat sensors increase the fire detector's immunity to deceptive phenomena
- software can be set to multi sensor smoke detector, as smoke detector or as heat detector
- selectable detection behavior by application-specific ASA parameter sets

### Application

- for the early 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
- addressable or collective

## OOHC740 fire and CO detector, neural ASA

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### 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 two sensor, optical forward and backward scattering
- Opto-electronic sampling chamber holds off disturbing extraneous light but optimally detects smoke particles
- two additional heat sensors and an additional CO sensor increase the fire detector's immunity to deceptive phenomena and the response characteristics of the fire detector
- Technical ambient supervision: alarming when the temperature or the CO concentration threshold value is exceeded or undershot
- works with an electrochemical CO cell
- transmission of a CO concentration alarm on an independent technical CO alarm channel
- signal processing by the technical CO alarm channel independently of the CO signal processing for fire detection
- selectable detection behavior of the CO alarm channel, independent of ASA-parameter sets for fire detection
- selectable detection behavior by application-specific ASA parameter sets

### Application

- for the very early detection of smoldering fires generating carbon monoxide (CO) (e.g. mattress fire in asylum)
- or the very early and reliable fire detection in environments with deceptive phenomena
- Environments with increased CO toxic risk, e.g. heating rooms, combustion plants, fermentation plants, car parks, automotive workshops, animal stalls, chemical labs or production sites
- addressable

### Detector base DB721

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#### Function

- Universal base for all point detectors of the series Cerberus PRO FD720

#### Application

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

By using a detector base with loop contact the detector line is not interrupted even if no point detector is mounted (addressed mode)

### Detector base DB722

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#### Function

- Universal base with detector base seal and screw less terminals for the point detectors of the series Cerberus PRO FD720

#### Application

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

### Detector base DB110 (Parameter set 1)

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#### Function

- Standard conventional detector base for all series 110 point detectors and OOH740
- Selects parameter set 1 within detectors

#### Application

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

### Detector base DB721D

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#### Function

- collective mode
  - Universal base for the OOH740 point detector in collective mode where monitoring to BS5839, Part I is required
- Addressed mode
  - Universal base for the OOH740 point detector of the series Cerberus PRO FD720 in collective mode
  - Diode removable
  - By using this base in addressed mode the diode must be removed.

#### Application

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

By using a detector base (with removed diode) with loop contact the detector line is not interrupted even if no point detector is mounted (addressed mode)

## Base attachment BA720

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### 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.

## Parameter set resistor 33k (PSR-1)

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### Application

- Preassembled resistors complete with spade terminals suitable for easy installation into DB110 and DB721D detector bases to set the OOH740 detector into parameter set 1.

## Parameter set resistor 68k (PSR-2)

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### Application

- Preassembled resistors complete with spade terminals suitable for easy installation into DB110 and DB721D detector bases to set the OOH740 detector into parameter set 2.

## Installation

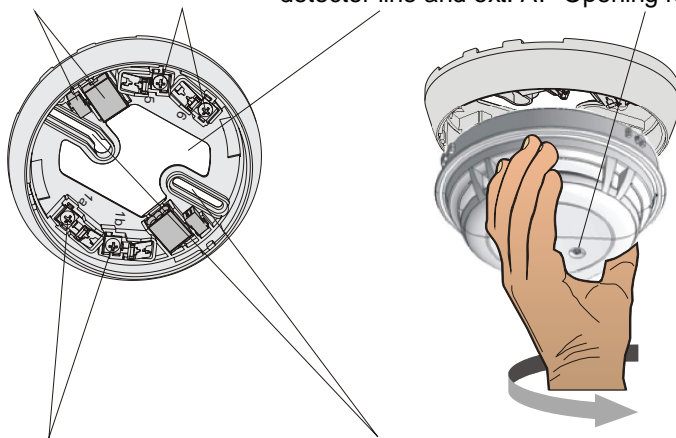
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### ● Simple installation

- 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 1.6 mm<sup>2</sup>
- place for auxiliary terminals 2x DBZ1190-AA and 2x DBZ1190-AB
- detector can be easily turned into the base by hand, or with the detector exchanger DX791 and the adapter to the detector exchanger FDUD491

Place for auxiliary terminals DBZ1190-AA,  
DBZ1190-AB

Connecting terminals  
detector line and ext. AI    Opening for cable entry    AI



Connecting terminals detector line and ext. AI

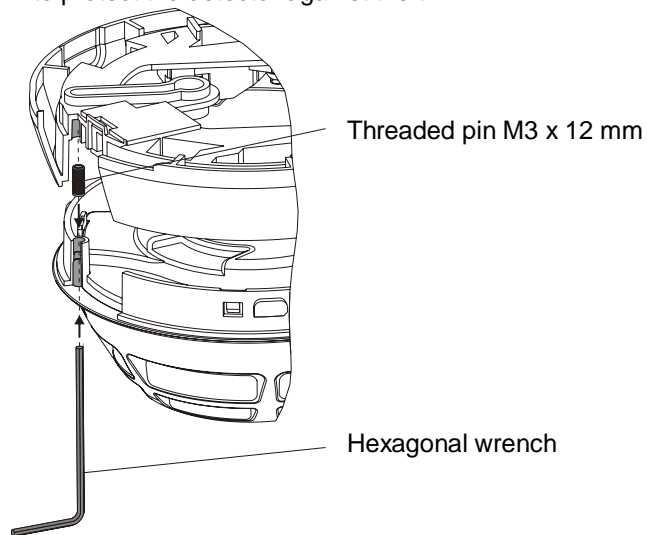
Mounting slots min. 40 mm up to max. 90 mm

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

## LP720 Detector locking device

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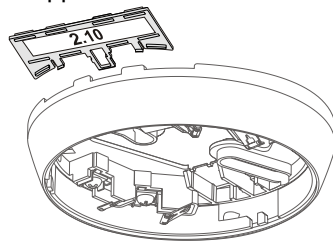
- to protect the detector against theft



### FDBZ291 Designation plate



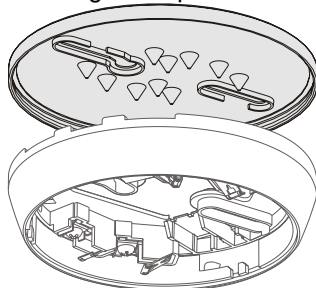
- to identify the location address
- application without detector base seal RS720 only



### RS720 Detector base seal



- for higher IP protection category



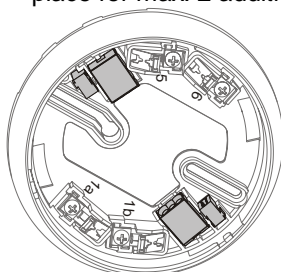
## DBZ1190-AA Micro terminal, DBZ1190-AB Connection terminal



- for conductors of max. 0.5 mm<sup>2</sup>



- for conductors of max. 2.5 mm<sup>2</sup>
- support point for T-branching connection, extern alarm indicators (AI) or cable shielding
- place for max. 2 additional terminals each

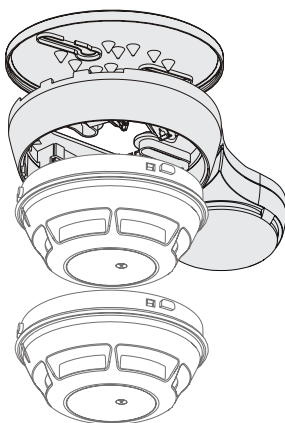


## DBS720 Sounder base

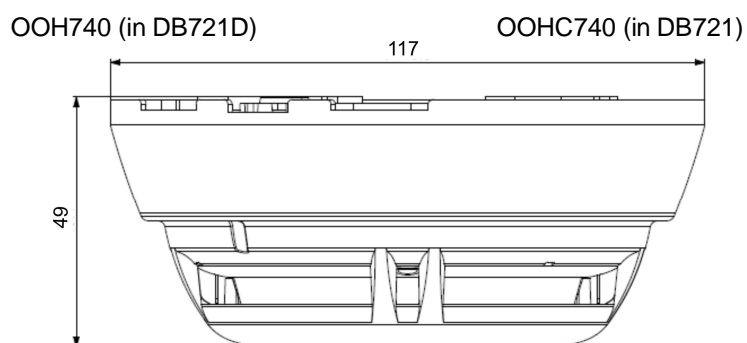


- the addressable sounder base is used for acoustic alarming
- applicable with all point detectors of the series Cerberus PRO FD720

→ Description see data sheet A6V10203095



## Dimensions of detector with base



## Technical data

	OOH740	OOHC740
Operating voltage (modulated)	DC 12 ... 33 V	DC 12 ... 33 V
Operating current (quiescent)	~170 ... 250 µA	~300 ... 380 µA
Ext. alarm indicator without sounder base		
AI connectable and programmable	2	2
Operating temperature	-25 ... +55 °C	-10 ... +50 °C
Storage temperature	-30 ... +70 °C	-20 ... +55 °C
Humidity	≤95 % rel.	≤15 ... 95 % rel.
Communication protocol	C-NET, collective or conventional	C-NET
Color	white, ~RAL 9010	white, ~RAL 9010
Protection category EN60529 / IEC529	IP40	IP40
– with detector base seal RS720	IP44	IP44
Standards	CEA4021, EN 54-5, EN 54-7, EN 54-17:2005	CEA4021, EN 54-5, EN 54-7, EN 54-17:2005, VdS2806
Approvals		
– VdS	G211070	G211047
– LPCB	126ba/01	126ba/02
Marine		
– MED (Marine Equipment directives)	59 825 – 13 HH	-
– GL (Germanischer Lloyd)	20 207 – 11 HH	-
Permissible air speed	max. 5 m/s	max. 5 m/s
System compatibility C-NET		FS720
System compatibility collective	FC10	-
QS standards	Siemens Standard SN 36350	

### OOH740

<b>CE</b> 0786
Siemens Schweiz AG, CH-6301 Zug Date: see manufacturing date on the product 0786-CPD-21094
EN54-5, EN54-7, EN54-17:2005 Point heat detector; Safety in case of fire OOH740 Technical data see Doc. A6V10305793

### OOHC740

<b>CE</b> 0786
Siemens Schweiz AG, CH-6301 Zug Date: see manufacturing date on the product 0786-CPD-21067
EN54-5, EN54-7, EN54-17:2005 Point heat detector; Safety in case of fire OOHC740 Technical data see Doc. A6V10305793

## Details for ordering

	Type	Part no	Designation	Weight
Accessories	OOH740	S54320-F7-A3	Multi-sensor smoke detector, ASA	0.100 kg
	OOHC740	S54320-F8-A3	Fire and CO detector, neural ASA	0.100 kg
	DB721	S54319-F11-A1	Detector base	0.138 kg
	DB721D	S54319-F15-A1	Detector base	0.130 kg
	DB722	S54319-F19-A1	Detector base	0.140 kg
	BA720	S54319-F20-A1	Base attachment	0.050 kg
	LP720	S54319-F9-A1	Detector locking device (2 hexagonal key, 100 hexagonal socket pins)	0.040 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 <sup>2</sup>	0.001 kg
	DBZ1190-AB	BPZ:4942340001	Connection terminal 1.0 ... 2.5 mm <sup>2</sup>	0.007 kg
	PSR720-1	S54319-F16-A1	Resistor 33 kΩ	0.100 kg
	PSR720-2	S54319-F17-A1	Resistor 68 kΩ	0.100 kg
	Details see equipment overview A6V10225323			

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