

Cerberus™ PRO / Cerberus™ FIT

Automatic fire detectors

OH720, OP720, HI720, HI722



For the automatically addressable detector bus C-NET

- The ideal fire detector for every application
- Signal processing with detection algorithms
- Address automatically issued during commissioning
- Communication via C-NET (addressed individually)

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 line separator: The defective part on the detector line is located by the fire control panel and isolated between two C-NET devices.
- 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
- Address automatically issued during commissioning
- 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

OH720 multi-sensor fire detector



Multi-sensor fire 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
- An additional heat sensor increases the point detector's immunity to deceptive phenomena
- Selectable detection behavior thanks to two parameter sets
 - Parameter set 1: 'Robust'
 - Parameter set 2: 'Sensitive'
- 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

OP720 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

HI720 heat detector (static and differential)



Heat detector consisting of:

- Point detector with one heat sensor
- Detector dust cap to protect the point detector during the construction phase

Function:

- For high requirements
- Reliable response behavior for slow and rapid temperature rises, plus reliable response behavior for low temperatures
- Selectable detection behavior thanks to two parameter sets
 - Parameter set 1: 'A2S'
 - Parameter set 2: 'A2R'

Use:

- Suitable for rooms with a fluctuating operating temperature
- Where significant dust or dirt deposits or high moisture levels could impair the operation of standard detectors

HI722 heat detector (static only)



Heat detector consisting of:

- Point detector with one heat sensor
- Detector dust cap to protect the point detector during the construction phase

Function:

- Measures the operating temperature. The point detector sends a danger signal to the fire control panel if the maximum temperature is exceeded
- Parameter set: 'A2S'

Use:

- Suitable for rooms with an operating temperature that fluctuates greatly for a short period of time
- Where significant dust or dirt deposits and temperature fluctuations could impair the operation of standard detectors

Intended use

The automatic fire detectors OH720, OP720, HI720, and HI722 may only be used on a C-NET detector line in a FS720 or FC360 fire detection system.

Type Overview

| Type | Designation | Order number | Weight [kg] |
|--------------------|---|----------------|-------------|
| OH720 | Multi-sensor fire detector <ul style="list-style-type: none"> Pure white, RAL 9010 Jet black, RAL 9005 | S54310-F2-A1 | 0.144 |
| | | S54310-F2-A2 | |
| OP720 | Smoke detector <ul style="list-style-type: none"> Pure white, RAL 9010 Jet black, RAL 9005 | S54310-F1-A1 | 0.094 |
| | | S54310-F1-A2 | |
| HI720 | Heat detector (static and differential) | S54310-F4-A1 | 0.130 |
| HI722 | Heat detector (static only) | S54310-F3-A1 | 0.130 |
| DB721 | Detector base with loop contact <ul style="list-style-type: none"> Pure white, RAL 9010 Jet black, RAL 9005 | S54319-F11-A1 | 0.052 |
| | | S54319-F11-A2 | |
| DB722 | Detector base | S54319-F19-A1 | 0.052 |
| DBS720 | Sounder base | S54319-F5-A1 | 0.090 |
| 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 0.28...0.5 mm ² | A5Q00004439 | 0.015 |
| DBZ1194 | Protective cage | BPZ:4677110001 | 0.138 |
| DBZ1190-AA | Micro terminal 0.28...0.5 mm ² | BPZ:4677080001 | 0.001 |
| DBZ1190-AB | Connection terminal 0.5...2.5 mm ² | BPZ:4942340001 | 0.001 |
| - | Metal cable gland M20 x 1.5 | A5Q00004478 | 0.039 |

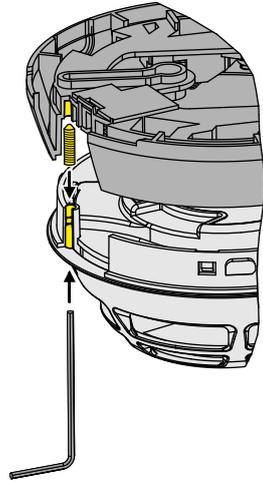
Accessories

| | |
|---|--|
| Detector base DB721 | |
|  | <p>Function:</p> <ul style="list-style-type: none">• Universal base for all point detectors of the Cerberus™ PRO FD720 series <p>Use:</p> <ul style="list-style-type: none">• For recess-mounted supply lines• For surface-mounted supply lines with cables up to max. Ø 8 mm <p>The detector base DB721 has a loop contact. When using the DB721, the detector line is also not interrupted when there is no point detector mounted in the detector base.</p> |
| Detector base DB722 | |
|  | <p>Function:</p> <ul style="list-style-type: none">• Universal base with base seal for point detectors OH720 and OP720 of the Cerberus™ PRO FD720 series <p>Use:</p> <ul style="list-style-type: none">• For recess-mounted supply lines• For surface-mounted supply lines with cables up to max. Ø 8 mm <p>The detector base DB722 has a loop contact. When using the DB722, the detector line is also not interrupted when there is no point detector mounted in the detector base.</p> |
| Sounder base DBS720 | |
|  | <p>Function:</p> <ul style="list-style-type: none">• Addressable sounder base for the acoustic alarm• Compatible with all point detectors from the Cerberus™ PRO FD720 series <p>You will find more information on the sounder base DBS720 in document A6V10218037.</p> |
| Designation plate FDBZ291 | |
|  | <ul style="list-style-type: none">• For labeling with the location address• Can only be used without detector base seal FDBZ295 |
| Detector base seal RS720 | |
|  | <ul style="list-style-type: none">• 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 base.

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

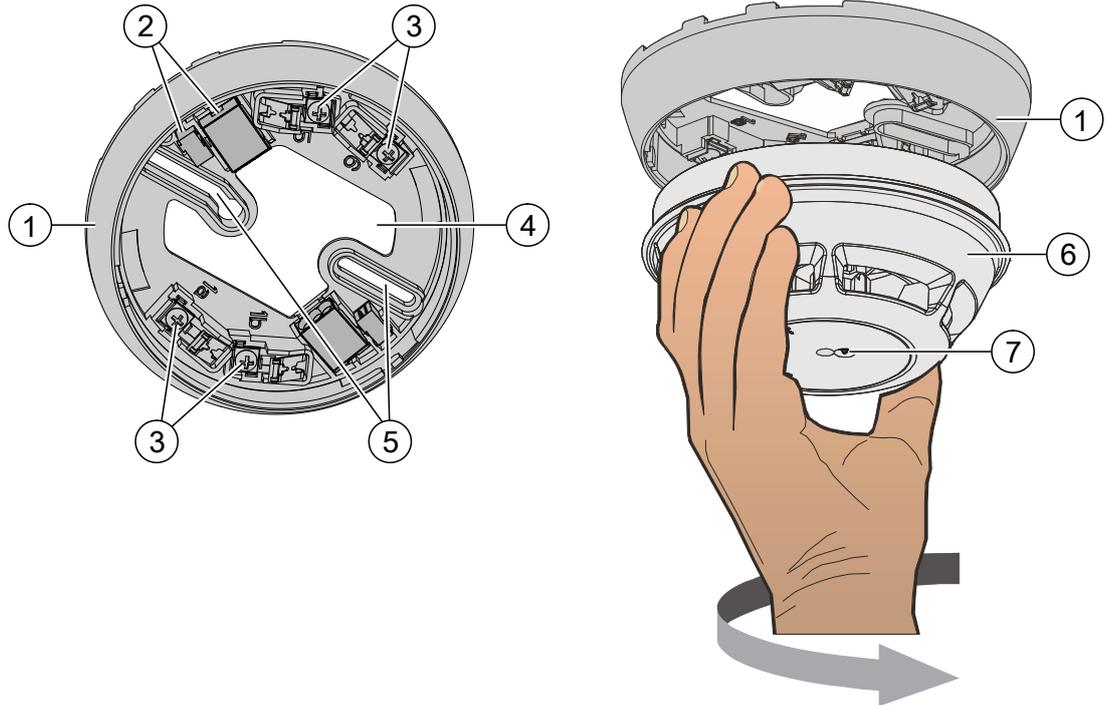
DBZ1190-AA micro terminal and DBZ1190-AB connection terminal



- 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
- Screw 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 | 5 | Mounting slits |
| 2 | Auxiliary terminals DBZ1190-AA, DBZ1190-AB | 6 | Point detector |
| 3 | Screw terminals for detector line and external alarm indicator | 7 | Internal alarm indicator |
| 4 | Opening for cable entry | | |

Disposal



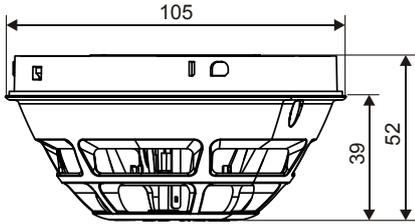
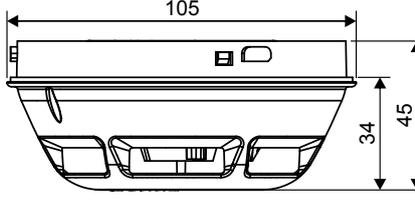
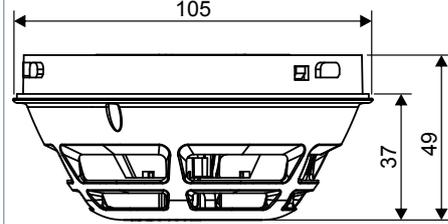
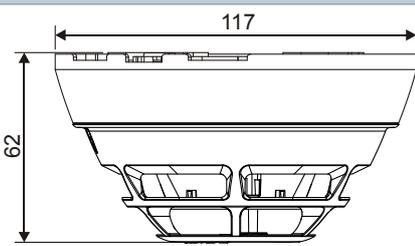
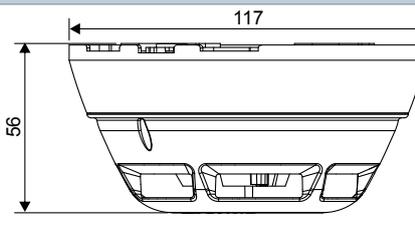
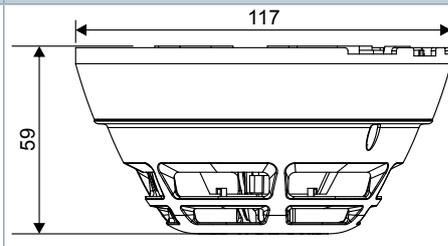
The device is considered an electronic device for disposal in accordance with European Directive and may not be disposed of as domestic waste.

- 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

| | OH720 | OP720 | HI720 / HI722 |
|--|---|---|----------------------|
| Operating voltage | DC 12...33 V | DC 12...33 V | DC 12...33 V |
| Operating current (quiescent) | ~230 µA | ~220 µA | ~200 µA |
| Max. number of external alarm indicators that can be connected | 2 | 2 | 2 |
| Operating temperature | -10...+55 °C | -10...+55 °C | -10...+55 °C |
| Storage temperature | -30...+70 °C | -30...+70 °C | -30...+70 °C |
| Air humidity (short-term moisture condensation permitted) | ≤95 % rel. | ≤95 % rel. | ≤95 % rel. |
| Communication protocol | C-NET | C-NET | C-NET |
| Color | ~RAL 9010 pure white ~RAL 9005 jet black | ~RAL 9010 pure white ~RAL 9005 jet black | ~RAL 9010 pure white |
| Weight | 0.144 kg | 0.138 kg | 0.130 kg |
| Protection category (IEC 60529) | IP40 | IP40 | IP40 |
| Protection category (IEC 60529) with detector base seal RS720 | IP42 | IP42 | IP42 |
| Standards | EN 54-7, EN 54-17, EN 54-29 | EN 54-7, EN 54-17 | EN 54-5, EN 54-17 |
| Approvals | | | |
| • VdS | G209064 | G209068 | G209065 / G209146 |
| • LPCB | 531w/01 | 531e/01 | 531f/01 / 531f/02 |
| • FM | 3038424 | 3038424 | 3037921 |
| • DNV GL (marine) | MEDB00003UK | MEDB00003UK | MEDB00003UR |
| Permissible wind speed | Max. 5 m/s | Max. 5 m/s | - |
| C-NET system compatibility | FS720, FC360 | FS720, FC360 | FS720, FC360 |

Dimensional drawings

| OH720 | OP720 | HI720, HI722 |
|---|---|---|
|  |  |  |
| OH720 with base | OP720 with base | HI720, HI722 with base |
|  |  |  |

Product documentation

| Dokument-ID | Titel |
|-------------|---|
| 008115 | Installation Detector heating FDBH291 |
| A6V10200373 | Installation Detector base with loop contact DB721, DB722, detector base DB720, sounder base DBS720, detector base seal RS720, detector locking device LP720, base attachment BA720 |
| A6V10203095 | Data sheet Sounder base, Alarm sounders DBS720, FDS221-R, FDS221-W |
| A6V10203222 | Data Sheet Testequipment and accessories FDUL221, DX791, RE6, RE7T, RE8ST, RE8STCO, FDUM29x, LE3, StabexHF |
| A6V10212047 | Technical Manual Automatic fire detectors OH720, OP720, HI720, HI722 |
| A6V10229261 | List of compatibility (for 'Cerberus™ PRO' product line) |
| 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 |