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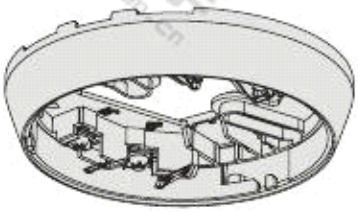


DB721-CN Detector base
Product Manual

Overview

The DB721-CN addressable detector bases are universal bases. It is installed on fire detection site and used for following detectors:

- OH720-CN Multi-sensor smoke detector
- OP720-CN Smoke detector
- HI720-CN Heat detector (Static)

Characteristics

- Easy installation
- Universal base, suited for surface and recess mounting
- Large opening in the detector base for easy cable insertion
- Accessories for surface mounting, humid or wet environments, theft prevention, dust protection, location inscription
- Adopt environmental protected material and production process to fufil RoHS standard

Installation

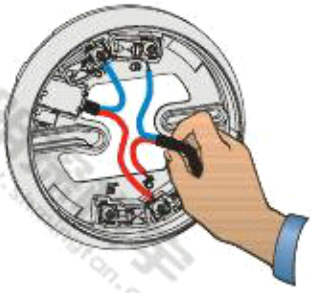


Fig. 1

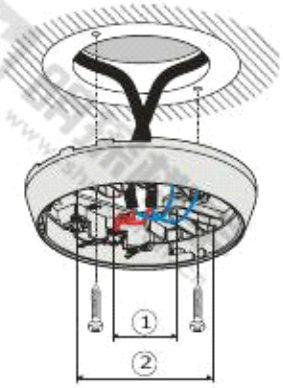


Fig. 2

① Minimum Ø 40 mm
② Maximum Ø 90 mm

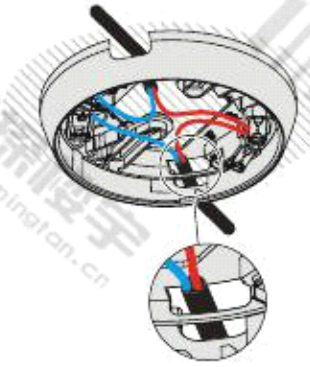


Fig. 3

Building Technologies

Fire Safety & Security Products

Procedure of installation:

1. Insert the cables through the base using either surface mounting (cable diameter of up to 8 mm) or recess mounting (Fig. 2/Fig. 3).
2. Install the detector base directly on the recessed box or an even surface (Fig. 2).
3. Connect the cable to the terminals according to Fig. 1/Fig. 4.
4. Place the cables flat on the bottom of the detector base so that they do not hamper insertion of the detector.

Note:

- If a surface-mounted cable feed is used, there are two possible break-out points on the detector base for the cable entry (Fig. 3).

Connection diagram

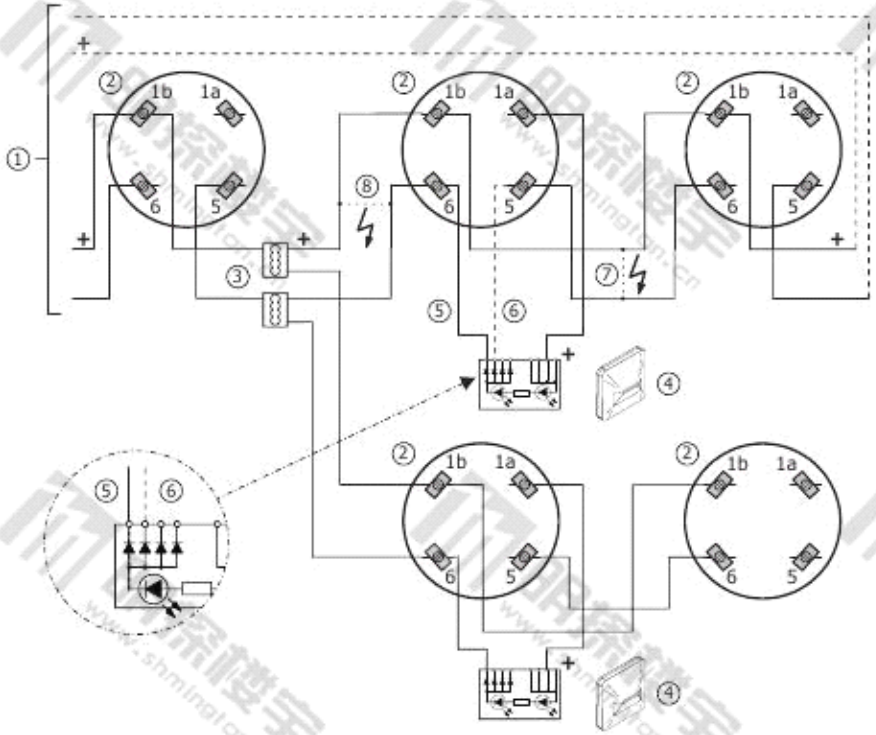


Fig. 4

Legend

1 Control panel	5 Cable -E_AI6
2 Detector base DB721-CN	6 Cable -E_AI5 (optional)
3 Auxiliary terminal DBZ1190-XX	7 Short circuit (error)
4 Ext. alarm indicator	8 Short circuit (error)

Comments

- If a shielded cable is used for connecting the external alarm indicator, its shield must be connected to the shield for the detector bus.
- The alarm indicator connected will continue to function correctly in the event of a short circuit occurring at position 7 on the connection diagram. The alarm indicator is triggered by cable –E_AI6.
  If the short circuit occurs at position 8 on the connection diagram, the alarm indicator will no longer be triggered.
  As an option, the alarm indicator may also be connected using cable –E_AI5.
  In this case, the alarm indicator will correctly indicate an alarm even if a short circuit occurs at position 8.
  Therefore, this ensures that the alarm indicator will always function correctly.

The option described is only possible in a loop line.

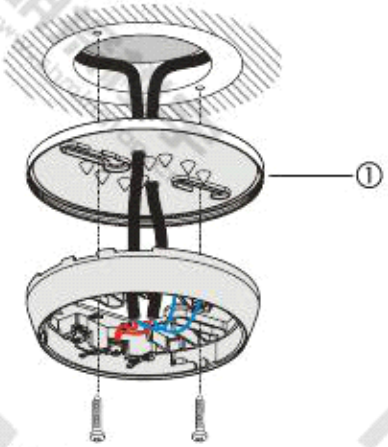


Fig. 5
1- Detector base seal RS720

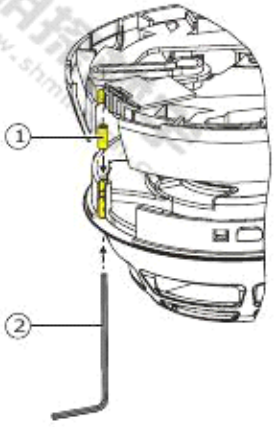


Fig. 6
1- Grub screw M3 x 12 mm
2- Hexagonal wrench

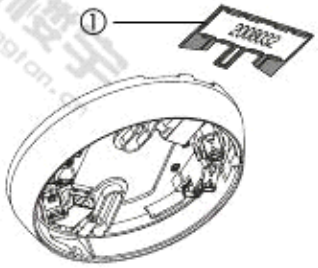


Fig. 7
1- Designation plate FDBZ291

Fig. 8
Micro terminals DBZ1190-AA

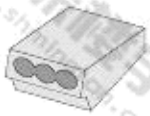


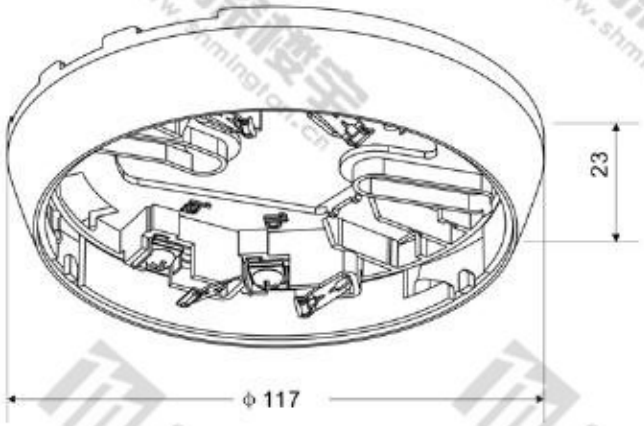
Fig. 9
Connection terminals DBZ1190-AB

- **Detector base seal RS720 (Fig. 5)**
  - The detector base seal RS720 is used for the installation of detectors in wet rooms. Protection category: IP42
  - Compatible with detector base DB721-CN
  - May only be used with recess-mounted cable feeds
  - The detector base seal is installed between the ceiling and the detector base DB721-CN
- **Detector locking device LP720 (Fig. 6)**
  - The detector can be protected against theft with the detector locking device LP720
  - The detector locking device LP720 is compatible with the detector base DB721-CN
  - Installation of LP720:
    1. Insert the detector in the detector base.
    2. Insert the hexagonal wrench provided in the bore hole on the detector housing and tighten the grub screw.
- **Designation plate FDBZ291 (Fig. 7)**
  - In order to provide the detector with a location address, the designation plate FDBZ291 is labeled and attached to the detector base DB721-CN
- **Micro terminals DBZ1190-AA (Fig. 8)**
  - 4 poles
  - For wire diameters of 0.28 … 0.5 mm^2
  - For T-branches of additional cabling, e.g., for external alarm indicators
- **Connection terminals DBZ1190-AB (Fig. 9)**
  - 3 poles
  - For wire diameters of 1 … 2.5 mm^2

- For T-branches of additional cabling, e.g., for external alarm indicators

Dimensions

In: mm



Technical data

Conductor cross section	
– Connecting terminals in detector base	0.2 ... 1.5 mm^2
– Connection terminals	1.0 ... 2.5 mm^2
– Micro terminals	0.28 ... 0.5 mm^2
Operating temperature Storage temperature Humidity Protection category EN60529 / IEC529	according to data sheet detectors
Color	pure white, RAL 9010

Details for ordering

Type	Material no	Part no	Designation	Weight
DB721-CN	S54319-F4-A101	100700917	Detector base	0.052 Kg
RS720	S54319-F8-A1	100681370	Detector base seal	
LP720	S54319-F9-A1	100681369	Detector locking device	
FDBZ291		A5Q00002621	Designation plate	
DBZ1190-AA		4677080001	Micro terminals 0.28 ... 0.5 mm^2	
DBZ1190-AB		4942340001	Connection terminals 1 ... 2.5 mm^2	

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