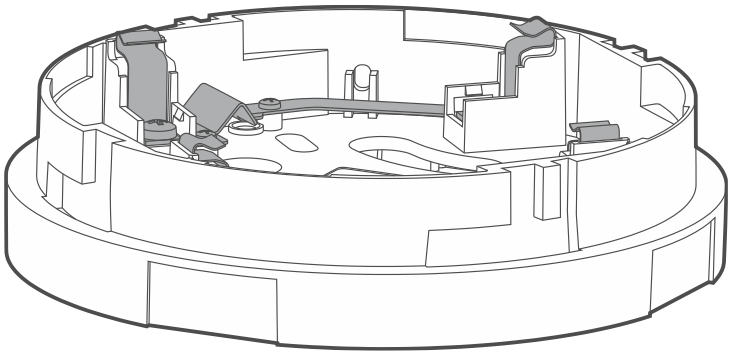
Addressable detector base

DB-400

EN



db-400_en 10/26

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IMPORTANT

The device should be installed by qualified personnel.

Prior to installation, please read carefully this manual in order to avoid mistakes that can lead to malfunction or even damage to the equipment.

Disconnect power before making any electrical connections.

Changes, modifications or repairs not authorized by the manufacturer shall void your rights under the warranty.

Signs in this manual

Caution – information on the safety of users, devices, etc.

Note – suggestion or additional information.

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The DB-400 base is used to connect the following SATEL fire alarm system components to the detection line of the ACSP-402 control panel:

- fire detectors:
  - DMP-400 – addressable multisensor smoke and heat detector,
  - DRP-400 – addressable optical smoke detector,
  - DCP-400 – addressable fixed temperature / rate-of-rise heat detector.
- fire alarm signaling devices:
  - SPP-450 – addressable fire alarm sounder,
  - SOP-450 – visual alarm device according to EN 54-23.

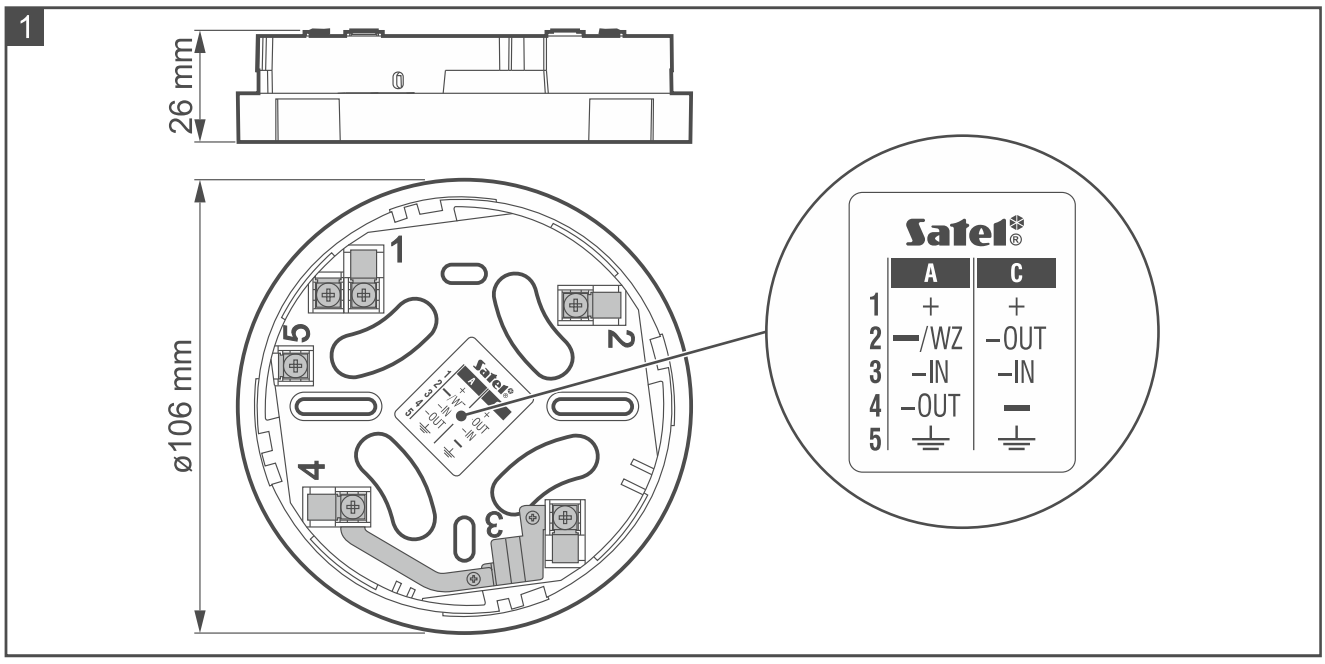
The base can also be used to connect the SOP-450 visual alarm device to the conventional signaling device line of:

- ACSP-402 control panel,
- CSP-104 / CSP-108 / CSP-204 / CSP-208 control panel,
- control panel from another manufacturer, provided it supports devices powered by 10,5...26 V DC.

1. Features

- Ability to disconnect a detector / signaling device without breaking the detection line.
- Easy to disconnect a detector / signaling device from the detection line / signaling device line for the purpose of periodic checks or maintenance.
- Ability to connect flush-mounted and surface-mounted detection line / signaling device line wires.
- Ability to connect the WZ-110 remote indicator by SATEL.
- Suitable for installation on the PDB-100 industrial base by SATEL for protection against water when water vapor condensation may occur on the ceiling.

2. Description



On the bottom of the base, there is a terminal description according to which you should connect the base to:

A – addressable detection line of the ACSP-402 control panel,

C – conventional signaling device line of a fire alarm control panel by SATEL or a fire alarm control panel from another manufacturer.

In the base connected to the addressable detection line of the ACSP-402 control panel, you can install:

- SPP-450 sounder,
- SOP-450 visual alarm device,
- SPP-450 sounder paired with SOP-450 visual alarm device,
- SPP-450 sounder paired with DMP-400 / DRP-400 / DCP-400 detector.

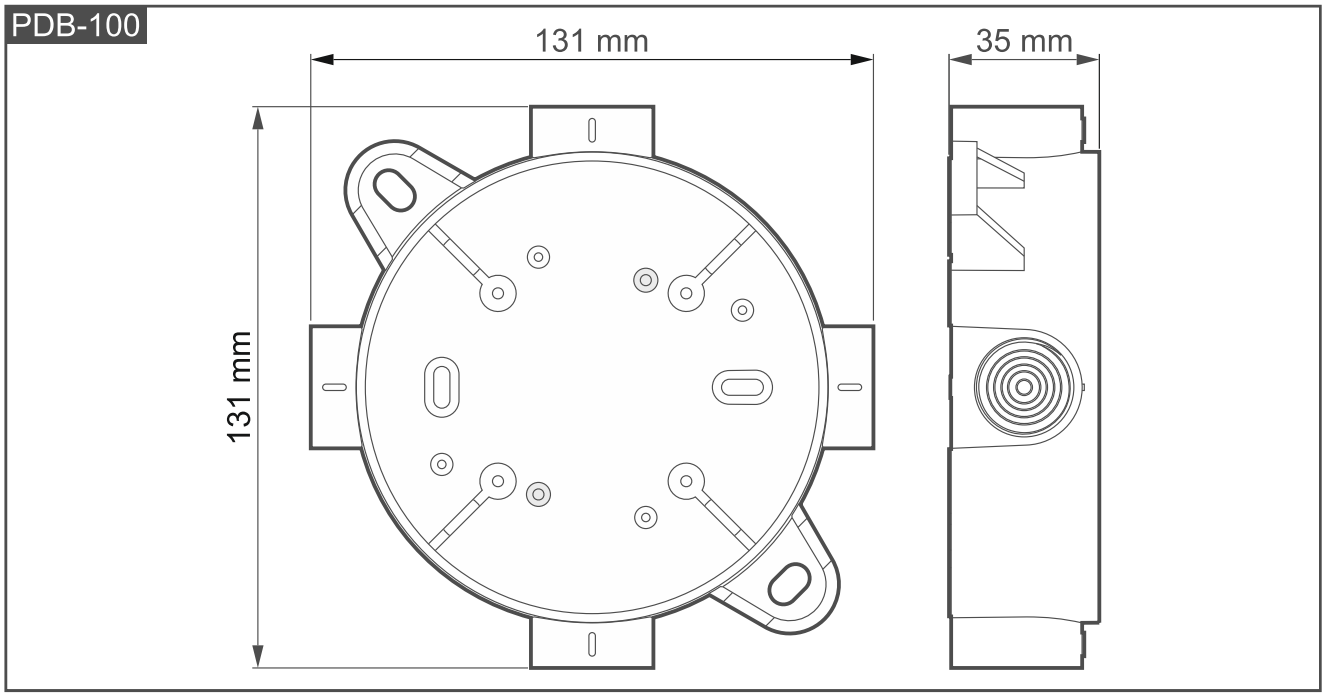
If the SPP-450 sounder paired with the DMP-400 / DRP-400 / DCP-400 detector is installed in the base, you can connect the WZ-110 remote indicator to the base.

In the base connected to the conventional signaling device line of a fire alarm control panel by SATEL or a fire alarm control panel from another manufacturer, you can install the SOP-450 visual alarm device.

3. Installation

3.1 Tips for installation

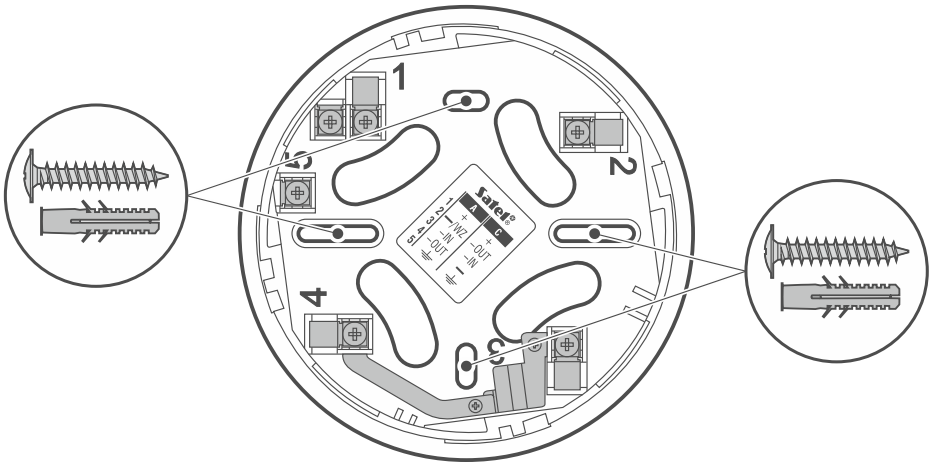
- The base should be installed indoors, in spaces with normal air humidity.
- Do not install the base outdoors.
- In spaces where water vapor condensation occurs on the ceiling, the base should be installed on the PDB-100 industrial base by SATEL (see: *Installation on the PDB-100 base* s. 5).



3.2 Direct ceiling / wall mounting

1. Place the base against the ceiling / wall and mark the location of the mounting holes (Fig. 2).

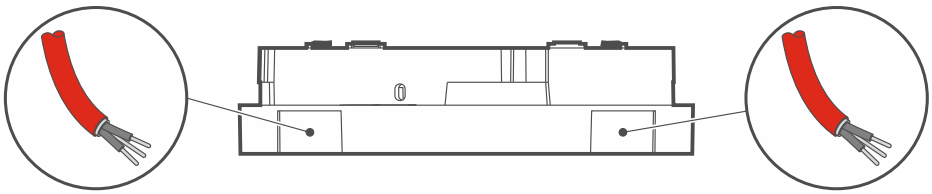
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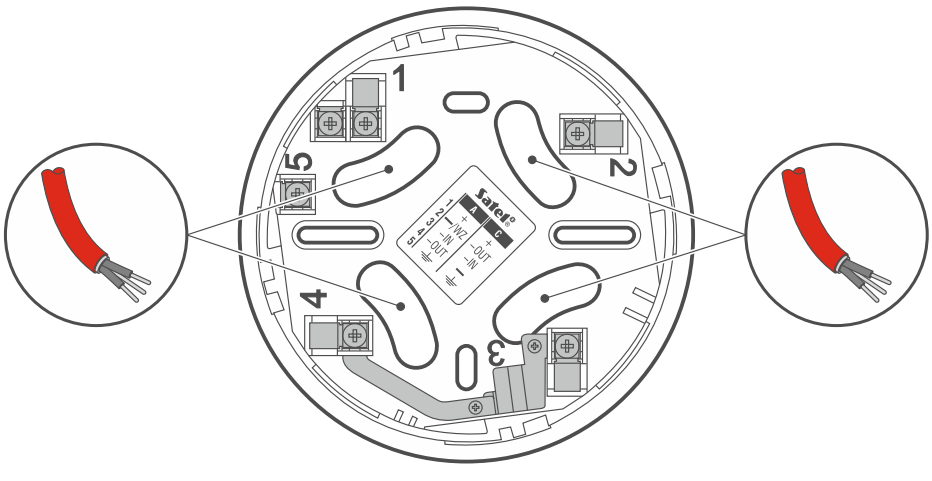
*If you are mounting the base to install a detector in it, pay attention to the ⌂ symbol next to terminal **2**. It indicates the position of the LED indicator once the detector is installed into the base. The detector should be installed so that the LED indicator is clearly visible. The indicator facilitates locating the detector.*

2. Drill the holes for wall plugs (anchors). Select wall plugs intended for the mounting surface (different for concrete or brick wall, different for drywall, etc.).
3. If the detection line / signaling device line wires are surface-mounted, drill the hole(s) for wires (Fig. 4).
4. Run the cables through the holes in the base (Fig. 4 and 5).
5. Secure the base to the ceiling / wall with screws.
6. Connect the wires to the corresponding terminals (*see: Connecting the wires p. 6*).

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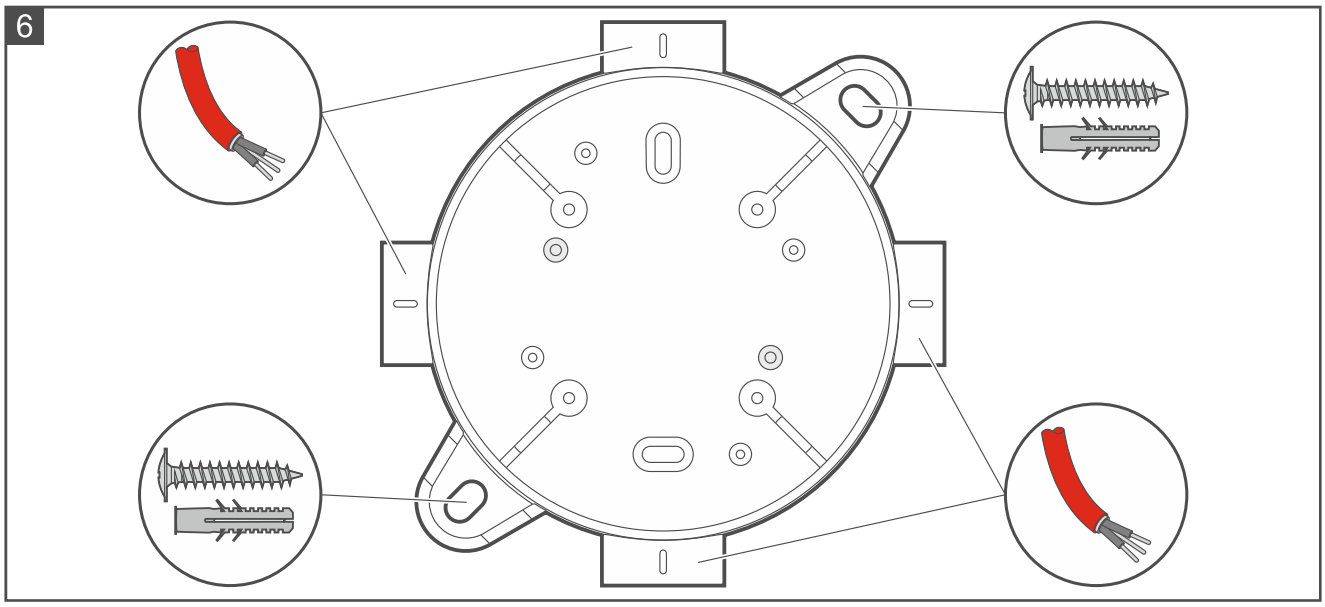
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3.3 Installation on the PDB-100 base

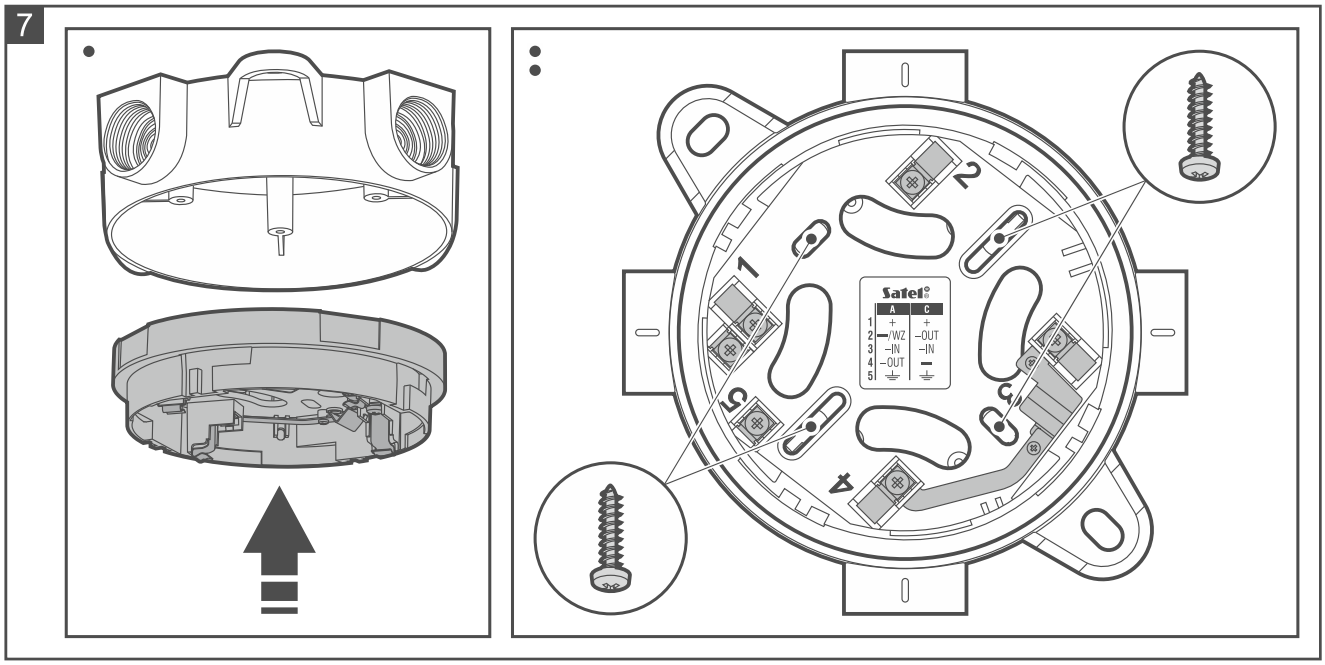
1. Drill the holes for cables in the PDB-100 base (Fig. 6).
2. Place the PDB-100 base against the ceiling and mark the location of the mounting holes (Fig. 6).

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3. Drill the holes for wall plugs (anchors). Select wall plugs intended for the mounting surface (different for concrete or brick wall, different for drywall, etc.).
4. To seal the cable holes, use cable glands (recommended cable gland: PG-16).
5. Secure the PDB-100 base to the ceiling with screws.
6. Run the cables inside the PDB-100 base (Fig. 6).
7. Run the cables through the holes in the DB-400 base (Fig. 5).
8. Secure the DB-400 base to the PDB-100 base with screws (Fig. 7).
9. Connect the wires to the corresponding terminals (see: *Connecting the wires* p. 6).

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3.4 Connecting the wires

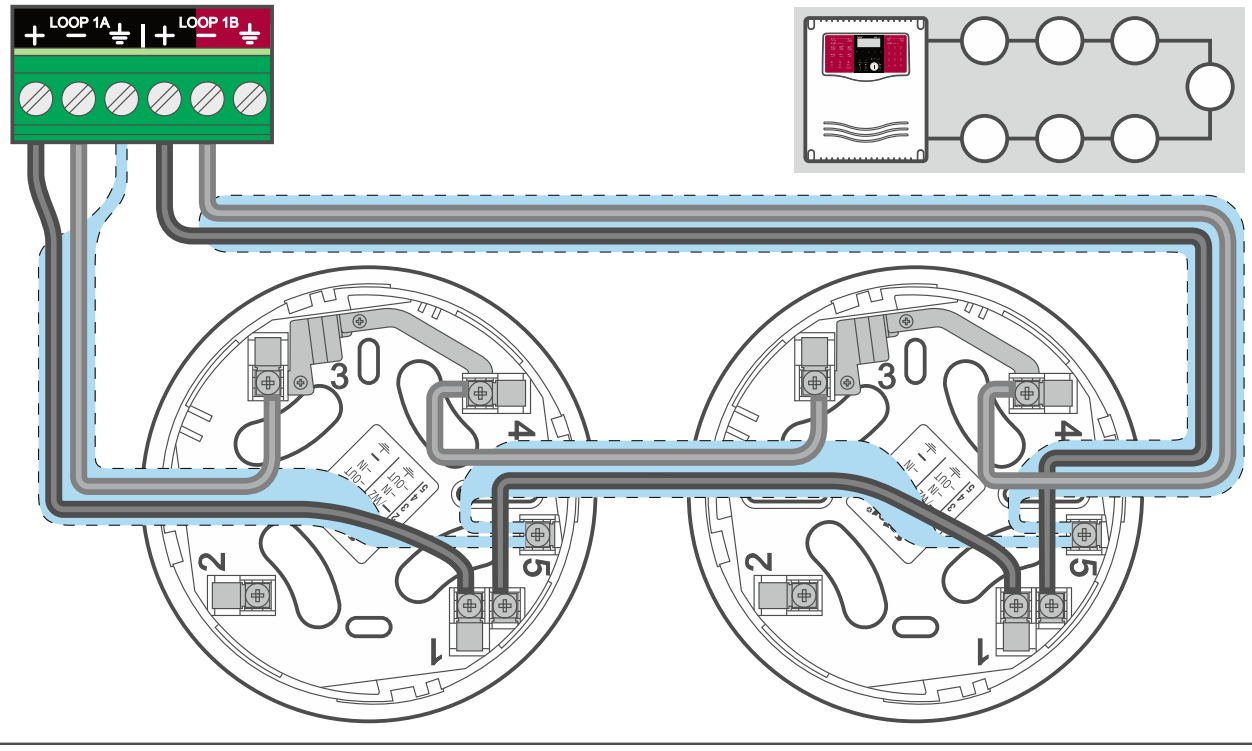
Disconnect power before making any electrical connections.

3.4.1 Connecting the ACSP-402 control panel detection line wires

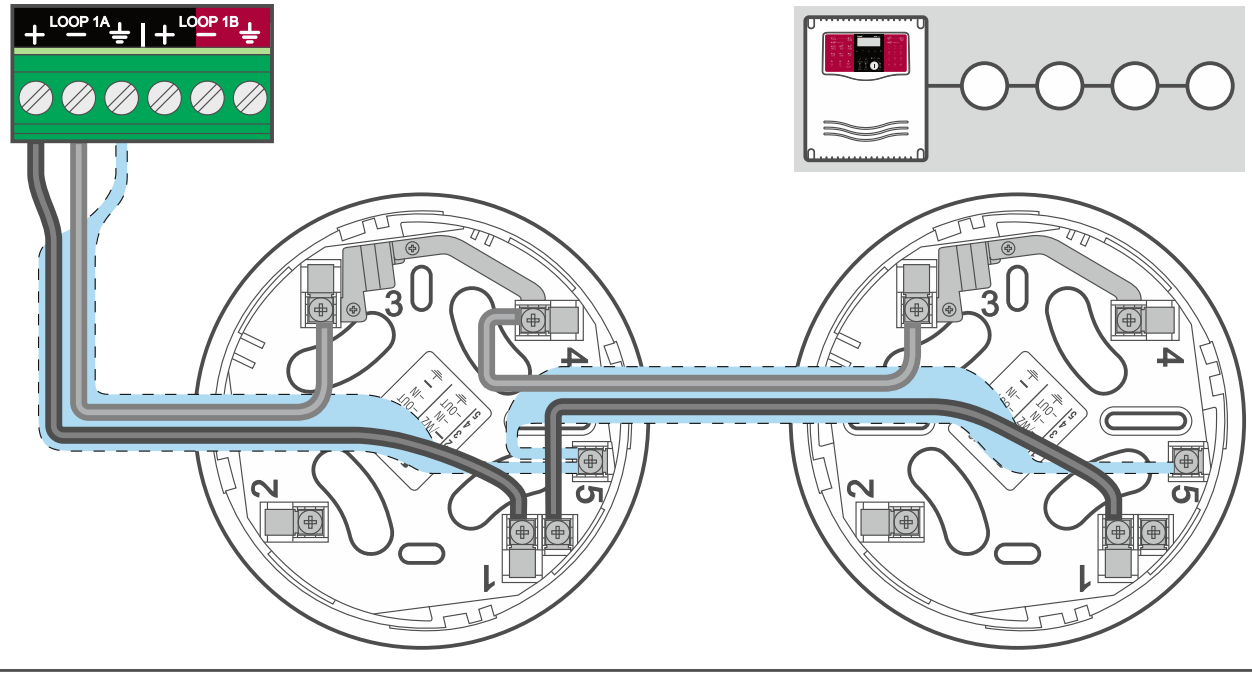
The method of connecting wires to the base is shown in Fig. 8 – loop, Fig. 9 – radial circuit.

1. To terminals **1 (+)** and **3 (-IN)**, connect the wires from the control panel / previous base.
2. Connect the wires to terminals **1 (+)** and **4 (-OUT)** to connect the base to the next base / device / control panel. If the base is the last device in the radial circuit, do not connect the wires to terminals **1 (+)** and **4 (-OUT)** (Fig. 9).
3. Connect the cable shields to terminals **5 (⏚)**.

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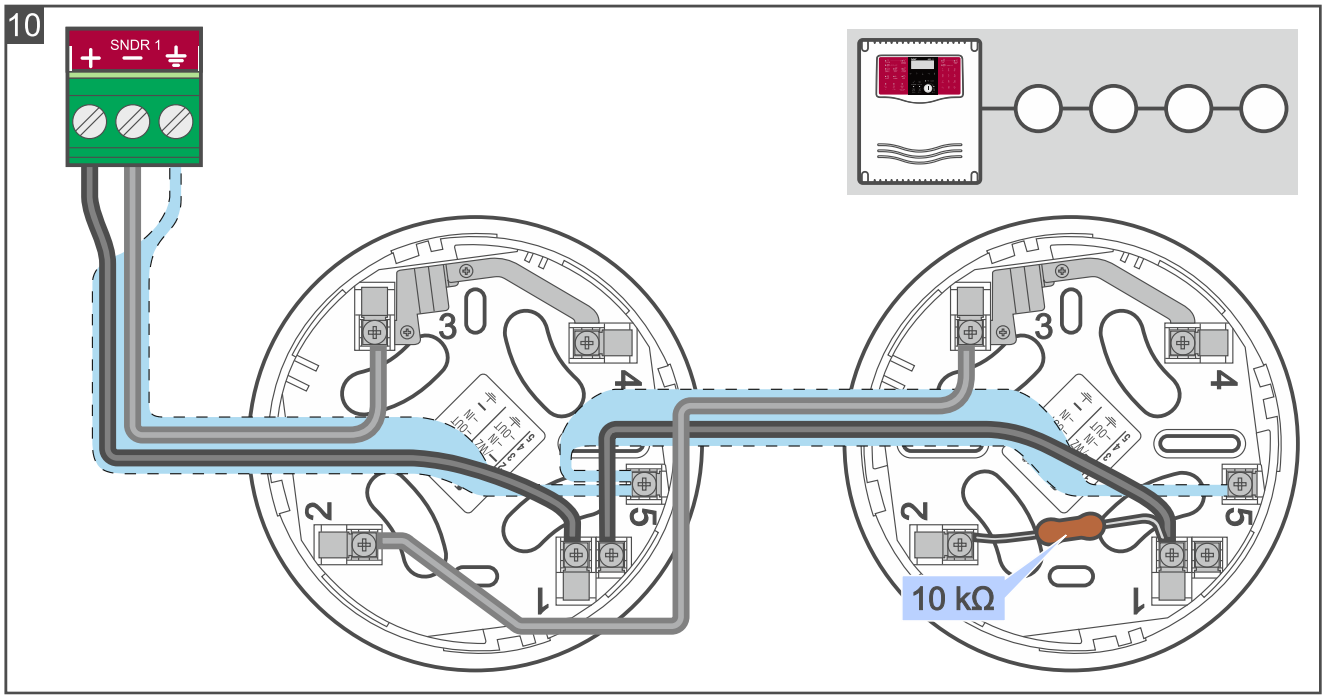


3.4.2 Connecting the conventional signaling device line wires

The method of connecting wires to the base is shown in Fig. 10.

1. To terminals **1 (+)** and **3 (-IN)**, connect the wires from the control panel / previous base / signaling device.
2. To terminals **1 (+)** and **2 (-OUT)**, connect the wires to the next base / signaling device. If the base is connected to a SATEL control panel and it is the last device in the radial circuit, connect a **10 kΩ** resistor to terminals **1 (+)** and **2 (-OUT)** (Fig. 10).
3. You can connect the cable shields to terminals **5 (⏚ / E)**. Using the shielded cable is not required.

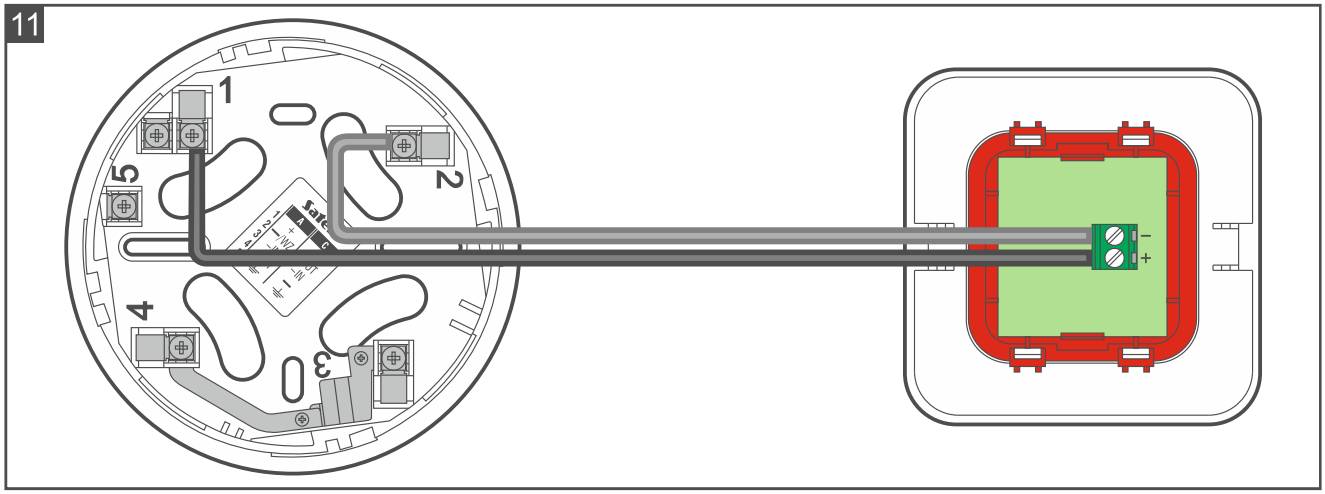
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3.4.3 Connecting the WZ-110 remote indicator

The WZ-110 remote indicator can be connected if the base is connected to the addressable detection line of the ACSP-402 control panel and a detector or the SPP-450 sounder paired with a detector is to be installed in the base The method of connecting the WZ-110 remote indicator to the base is shown in Fig. 11.

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4. Maintenance

The fire alarm system elements require regular maintenance. The DB-400 base should be checked together with the detector / signaling device installed in the base. The periodic checks should be carried out at least every 6 months. In spaces where working conditions are difficult (e.g. dust, aggressive environment that may cause corrosion, etc.), the periodic checks should be carried out more often.

5. Specifications

DB-400 detector base

Dimensions ..... ø106 x 26 mm
Weight ..... 53 g

PDB-100 industrial base

Dimensions ..... 131 x 131 x 35 mm
Weight ..... 76 g