

BES External Signaling Devices

IUI-BES-AO, IUI-BES-A



BOSCH

en Installation Manual

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1 Safety

**Danger!**

Electricity

Injuries due to electricity are possible.

Switch off all electricity while installing the product.

Do not open or modify this product, except if described in this manual.

**Danger!**

Electricity

Injuries and damage of the system due to wrong polarity and short circuits are possible.

When connecting wires and cables, ensure to use the correct polarity.

**Danger!**

Loud noise and flashing light

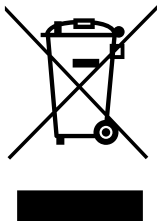
In case of wrong connections it is possible that the audio and visual signals are triggered which leads to loud noises and flashing lights.

Switch off all electricity while installing the product.

Ensure to connect wires and cables according to this manual.

Ensure to have a safe stance and secure yourself appropriately when installing this product in high places.

Be prepared for loud noises and flashing lights.

**Old electrical and electronic appliances**

Electrical or electronic devices that are no longer serviceable must be collected separately and sent for environmentally compatible recycling (in accordance with the European Waste Electrical and Electronic Equipment Directive).

To dispose of old electrical or electronic devices, you should use the return and collection systems put in place in the country concerned.

2 Short information

This manual describes the installation and connection of the BES external signaling devices. It applies only to the following products:

- IUI-BES-AO, sold as of 12/2015
- IUI-BES-A, sold as of 07/2017

3 System overview

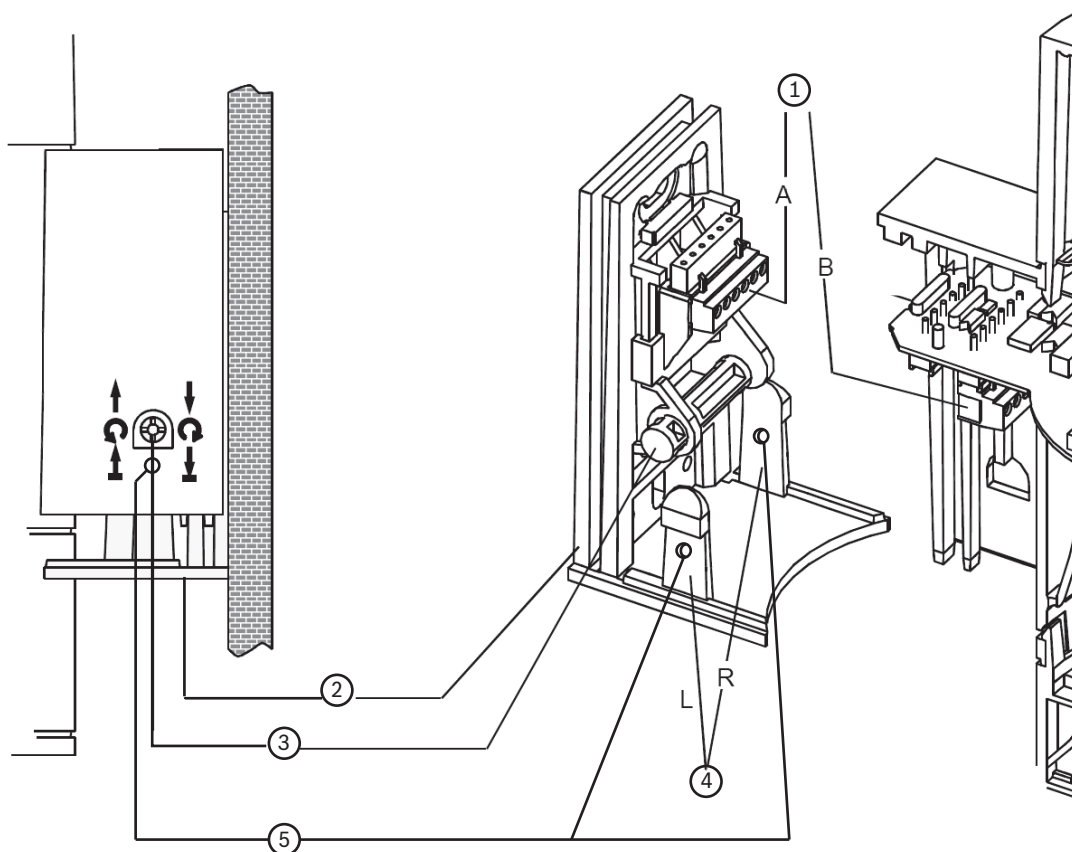


Figure 3.1: System overview

Element	Description
1	Connectors
2	Wall-mounting bracket
3	Threaded bolt, only accessible from the right
4	Snap-in latches
5	Holes for black screws

4 Installation

- The signaling device must be mounted vertical, with the LED lamps always at the top and the speaker always at the bottom (for water drainage).
- In case of difficult installation conditions (for example walls with full thermal insulation or roughcast plaster), an adapter module must be used.
- When mounting, clearance (to roof overhang) of at least 350 mm for IUI-BES-AO and of at least 280 mm for IUI-BES-A must be allowed for.

Opening the housing



Notice!

The signaling device contains a tamper contact including a threaded bolt that delays the opening of the housing to ensure to trigger the acoustic signal in case of tampering.

1. Push in the snap-in latches on both sides.
2. Push up the housing as far as possible.
3. Turn the threaded bolt to the left to unscrew and adjust it.
4. Lift off the housing completely.

Mounting the signaling device on flat surfaces

1. Mount the wall-mounting bracket onto the wall with four appropriate screws (not included). If you are using an optional wall tamper, mount the wall-mounting bracket directly on top of it.

Notice!

Suspension hook



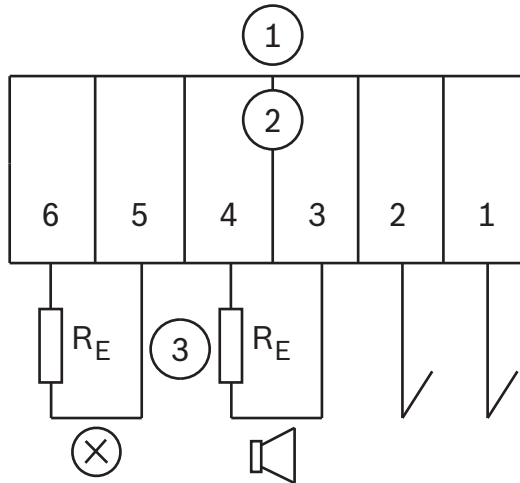
After the wall-mounting bracket is mounted, the enclosed suspension hook can be used to store the housing while working on the connections with both hands free.

Therefore insert the suspension hook into the hole at the bottom of the wall-mounting bracket and thread the other end of the suspension hook through one of the holes designated for the snap-in latches on the sides of the housing.

2. Connect the cables to connector A (wall-mounting bracket). The terminal resistors (12k1) are already fitted to connector B (electrical module). If required, the correct resistors must be fitted depending on the type of control panel.
3. Optionally connect the wall tamper.
4. Lift the housing on the wall-mounting bracket as far as possible.
5. Adjust the threaded bolt by screwing on the right.
6. Push down the housing completely.
7. Glue a seal in place over the right-hand snap-in latch.
8. In case of a VdS-compliant installation: Screw the black screws on both sides of the snap-in latches.

5 Connection

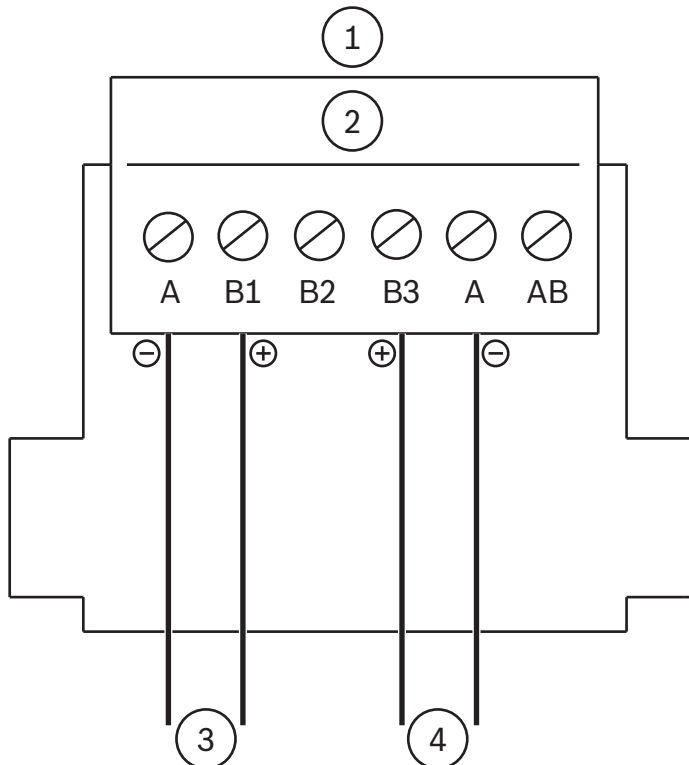
Prefitted connections of connector B (built into the housing)



Element	Description
1	Electrical module
2	Connector B
3	Terminal resistors

The terminal resistors depend on the security system (12k1 prefitted).

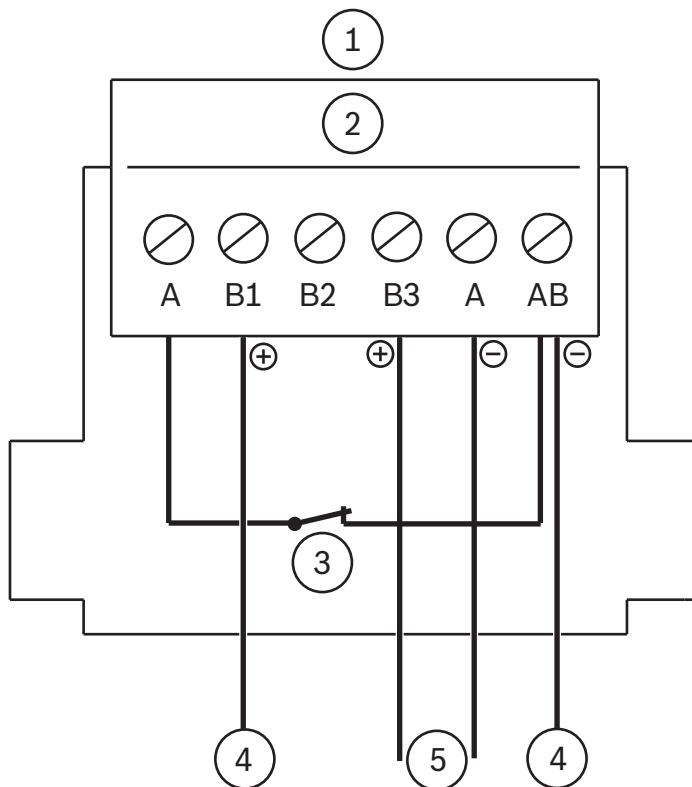
Connection of the system to connector A on the wall-mounting bracket (without using an optional wall tamper)



Element	Description
1	Wall-mounting bracket
2	Connector A
3	Acoustic input
4	Visual input

► If you are using a long cable with a resistance higher than 9 ohm, use B2 instead of B1.

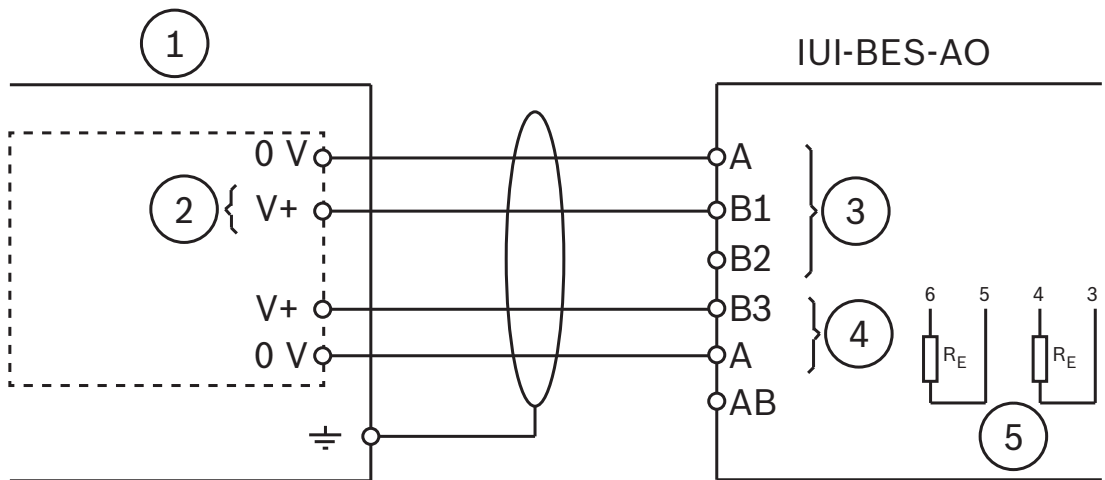
Changing the connection of the system to connector A when using a wall tamper



Element	Description
1	Wall-mounting bracket
2	Connector A
3	Wall tamper
4	Acoustic input
5	Visual input

► If you are using a long cable with a resistance higher than 9 ohm, use B2 instead of B1.

Wiring of the system to connector A on the wall-mounting bracket (class C) for IUI-BES-AO

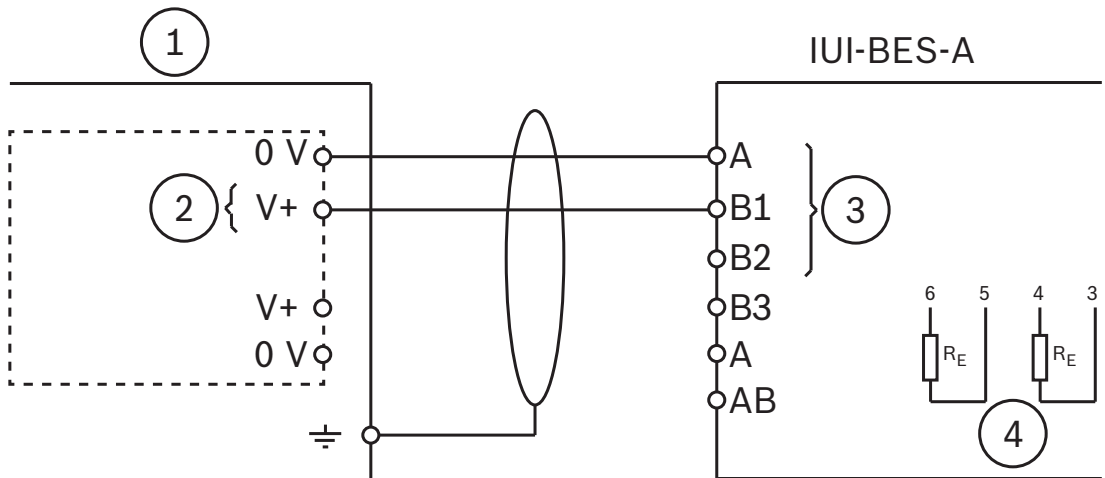


Element	Description
1	Security system
2	System-dependent output voltage
3	Acoustic control
4	Optical control
5	Terminal resistors

The terminal resistors depend on the security system (12k1 prefitted).

- ▶ If you are using a long cable with a resistance higher than 9 ohm, use B2 instead of B1.

Wiring of the system to connector A on the wall-mounting bracket (class C) for IUI-BES-A



Element	Description
1	Security system
2	System-dependent output voltage
3	Acoustic control
4	Terminal resistors

The terminal resistors depend on the security system (12k1 prefitted).

- ▶ If you are using a long cable with a resistance higher than 9 ohm, use B2 instead of B1.

6 Technical data

Electrical

Audio	
Minimum operating voltage in VDC	10.5
Maximum operating voltage in VDC	29
Rated current in mA	300
Minimum sound level at 1 m distance in dB(A)	100
Intrusion alarm tone	Complies with VdS regulation 2300
Maximum alarm duration in s	300
Visual	
Technology	LED
Minimum operating voltage in VDC	10.5
Maximum operating voltage in VDC	29
Rated current in mA	100
Maximum current consumption in mA (peak)	500
Flashes per s	1
Duration of flashes in ms	100

Mechanical

Dimension in cm (H x W x D)	IUI-BES-AO: 30.05 x 11.0 x 16.5 IUI-BES-A: 22.5 x 16.5 x 11
Weight in g	IUI-BES-AO: 1200 IUI-BES-A: 1050
Housing material	UV-resistant PVC
Color	Pure white, RAL 9010
Color of lamp cover	Red, RAL 3001

Environmental

Minimum operating temperature in °C	-25
Maximum operating temperature in °C	65
Protection class	DIN 40050: IP33 DIN 40040: HUF
Environmental class	IV

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