

## 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 equipment



This product and/or battery must be disposed of separately from household waste. Dispose such equipment according to local laws and regulations, to allow their reuse and/or recycling. This will help in conserving resources, and in protecting human health and the environment.

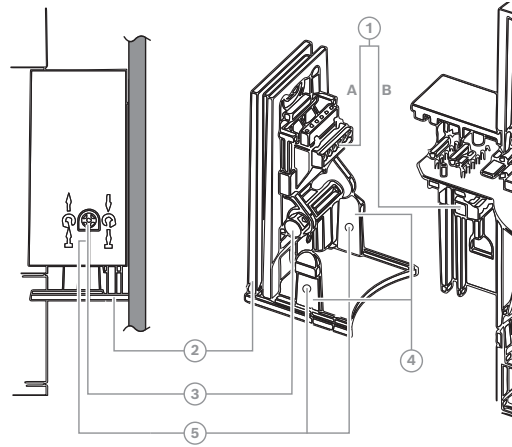
## Short information

This manual describes the installation and connection of the BES signaling devices.

It applies to the following products:

- IUI-BES-AO
- IUI-BES-A
- ISP-UNV-WTC (accessory)

## 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

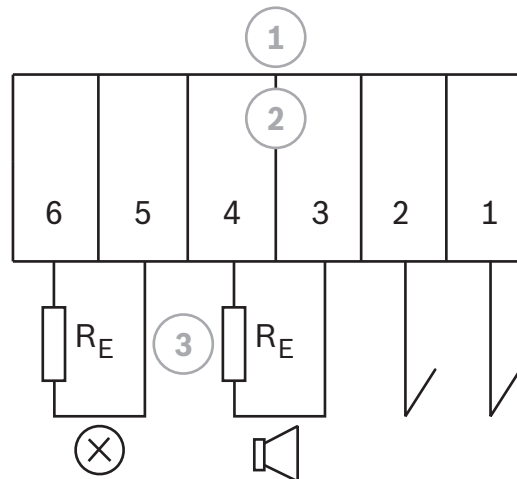
## Connection



### Caution!

Incorrect cabling leads to malfunction or damage of the system.

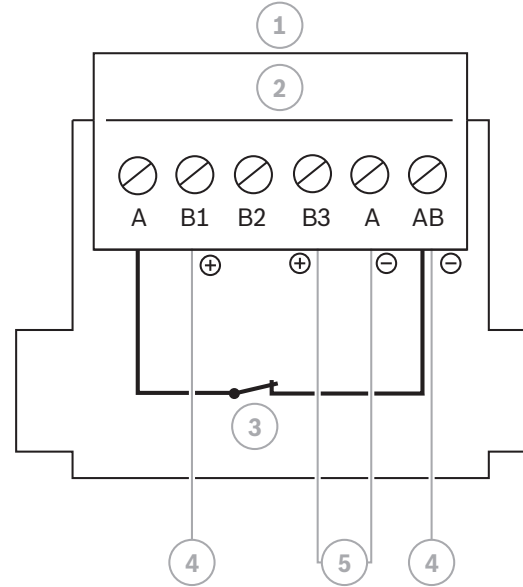
### Prefitted connections of connector B (built into the housing)



Element	Description
1	Electrical module
2	Connector B
3	Terminal resistors

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

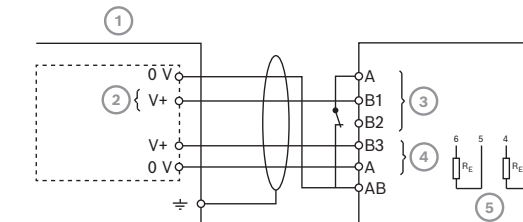
### Connection of the system to connector A



Element	Description
1	Wall-mounting bracket
2	Connector A
3	Wall tamper
4	Acoustic input
5	Optical input (only for BES-AO)

▶ 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)



Element	Description
1	Security system
2	System-dependent output voltage
3	Acoustic control
4	Optical control (only for BES-AO)
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.

## 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 rough-cast 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

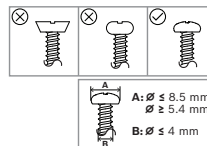
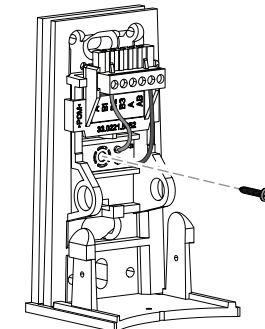


#### Notice!

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 wall tamper contact (VdS-C or EN G3 compliance)



The device is shipped with factory pre-installed wall tamper contact.

Order ISP-UNV-WTC in case of wall tamper contact replacement.

- Put the wall tamper on wall-mounting bracket and latch it to the studs.
- Hand-tighten the wall tamper with an appropriate screw as defined in the image.



**Notice!**

Do not tighten the screws with power tools.

**Mounting the signaling device on flat surfaces**

- Mount the wall-mounting bracket onto the wall with two appropriate screws (not included). If you are using the optional wall tamper, use an appropriate screw as defined.

**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.

- 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.
- Lift the housing on the wall-mounting bracket as far as possible.
- Adjust the threaded bolt by screwing on the right.
- Push down the housing completely.
- Glue a seal in place over the right-hand snap-in latch.
- For VdS-C and EN-Grade-3 compliance, screw the black screws on both sides of the snap-in latches.

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

**Optical**

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**

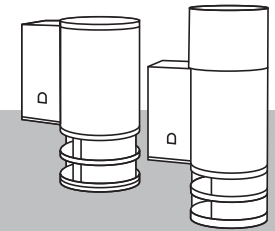
Dimension in cm (H x W x D)	IUI-BES-AO: 30.05 x 11.0 x 16.5 IUI-BES-A: 22.5 x 16.5 x 11
Weight in g	IUI-BES-AO: 1200 IUI-BES-A: 1050
Housing material	UV-resistant PVC
Color	Pure white, RAL 9010
Color of lamp cover	Red, RAL 3001

**Environmental**

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

**BES Signaling devices**

IUI-BES-AO, IUI-BES-A



Installation manual

**Bosch Security Systems B.V.**

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**Technical data**

**Electrical**

<b>Audio</b>	
Minimum operating voltage in VDC	10.5
Maximum operating voltage in VDC	29