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-depending 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 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 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.

1. Put the wall tamper on wall-mounting bracket and latch it to the studs.
2. 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

1. 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.

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

Technical data

Electrical

	IUI-BES-AO IUI-BES-A
Audio	
Operating voltage (VDC)	10.5 VDC − 29 VDC 24 VDC - 29 VDC (VdS)

	IUI-BES-AO IUI-BES-A
Nominal current (mA)	300 mA
Minimum sound level at 1 m distance (dB(A))	100 dB(A)
Intrusion alarm tone	Complies with VdS regulation 2300
Maximum alarm duration (s)	300 s

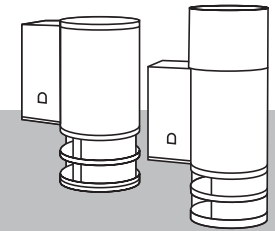|	IUI-BES-AO IUI-BES-A
Visual	
Technology	LED
Operating voltage (VDC)	10.5 VDC − 29 VDC
Nominal current (mA)	100 mA
Maximum current consumption (mA) (peak)	500 mA
Flashes per second	1
Duration of flashes (ms)	100 ms

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

	IUI-BES-AO IUI-BES-A
Operating temperature (°C)	-25 °C − 65 °C
IP rating	IP33
Protection class	DIN 40040: HUF
Environmental class (EN 50130-5)	IV
Environmental class (VdS 2110)	IV

BOSCH

BES Signaling devices
IUI-BES-AO, IUI-BES-A

Installation manual

Building solutions for a better life