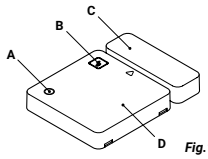

Fig.1/Abb.1

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A: Light sensor
B: Control button
C: Magnet
D: Sensor unit

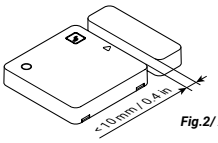

Fig.2/ Abb.2

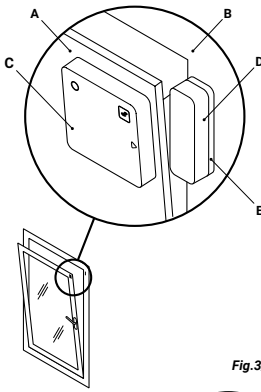

Fig.3/Abb.3

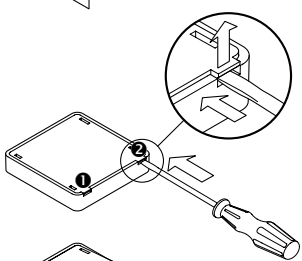

Fig.4/Abb.4

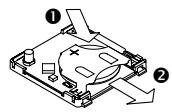

Fig.5/Abb.5

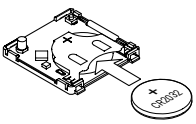

Fig.6/Abb.6

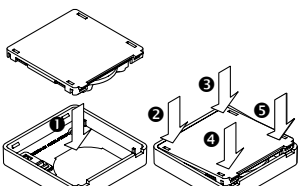

Fig.7/Abb.7

RoHS COMPLIANT

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USER AND SAFETY GUIDE

Shelly BLU Door/Window

Read before use

This document contains important technical and safety information about the device, its safe use and installation.

⚠**CAUTION!** *Before beginning the installation, please read carefully and entirely this guide and any other documents accompanying the device. Failure to follow the installation procedures could lead to malfunction, danger to your health and life, violation of law or refusal of legal and/or commercial guarantee (if any). Shelly Europe Ltd. is not responsible for any loss or damage in case of incorrect installation or improper operation of this device due to failure of following the user and safety instructions in this guide.*

Shelly® devices are delivered with factory-installed firmware. If firmware updates are necessary to keep the devices in conformity, including security updates, Shelly Europe Ltd. will provide the updates free of charge through the device Embedded Web Interface or the Shelly mobile application, where the information about the current firmware version is available. The choice to install or not the device firmware updates is the user's sole responsibility. Shelly Europe Ltd. shall not be liable for any lack of conformity of the device caused by failure of the user to install the provided updates in a timely manner.

Product Introduction

Shelly BLU Door/Window (the Device) is a Bluetooth sensor designed to detect the opening and closing of a door or window. It can also measure the inclination of a door or window that tilts and turns. In addition, it features a light sensor.

Installation Instructions

⚠**WARNING!** *Do not allow children to play with the magnets. Even relatively small magnets can cause serious injury if swallowed.*

⚠**CAUTION!** *Keep the Device away from liquids and moisture. The Device shouldn't be used in places with high humidity.*

⚠**CAUTION!** *Do not use if the Device has been damaged!*

⚠**CAUTION!** *Do not attempt to service or repair the Device yourself!*

⚠**CAUTION!** *The Device may be connected wirelessly and may control electric circuits and appliances. Proceed with caution! Irresponsible use of the Device may lead to malfunction, danger to your life or violation of the law.*

First steps

Shelly BLU Door/Window comes ready to use with the battery installed.

However, if pressing its button does not make the Device start emitting signals, you might need to insert a battery.

See the Replacing the battery section.

Mounting

⚠**ATTENTION!** *When mounting the Device make sure the small triangle on the sensor unit points towards the magnet as shown in Fig. 2 and the distance between the sensor unit and the magnet is less than 10 mm / 0.4 in when the door or the window is closed.*

You can place the magnet left, right, above, or below the sensor unit.

If you want to monitor a door or window that tilts and turns, mount the sensor unit (C) on the door or the window (A) and the magnet (D) on the frame (B) as shown in Fig. 3.

Use the supplied double-sided foam stickers to affix the sensor unit and the magnet to the door or the window and the frame.

Depending on the door or window frame, you may need to align the magnet and sensor unit by raising one of them using shims (E).

If you want to monitor a conventional door or window, we suggest, if possible, mounting the sensor unit on the frame and the magnet on the door or the window.

Using Shelly BLU Door/Window

If a conventional door or window is opened, the Device will immediately broadcast information about the event, the illumination, and the battery status at the time of the opening detection.

If a door or window, which tilts and turns is opened, the Device will immediately broadcast information about the event, the illumination, and the battery status at the time of the opening detection and 2 seconds later will broadcast information containing the inclination angle, the illumination, and the battery status at the moment. If the inclination angle changes the Device will broadcast its new status within 8 seconds.

If the door or the window is closed the Device will broadcast information about the event, the inclination angle (zero), the illumination, and the battery status at the time of the closing detection.

If the Device beacon mode is enabled it will broadcast information about the current open/close state, the inclination angle, the illumination, and the battery status every 30 seconds.

To pair Shelly BLU Door/Window with another Bluetooth device press and hold the Device button for 10 sec.

The device will await connection for the next one minute. The available Bluetooth characteristics are described in the official Shelly API documentation at https://shelly.link/ble

To restore the device configuration to factory settings, press and hold the button for 30 seconds shortly after inserting the battery.

Initial Inclusion

If you choose to use the Device with the Shelly Smart Control mobile application and cloud service, instructions on how to connect the Device to the Cloud and control it through the Shelly Smart Control app can be found in the mobile application guide. The Shelly mobile application and Shelly Cloud service are not conditions for the Device to function properly. This Device can be used standalone or with various other home automation platforms which support BTHome protocol.

For more information visit bthome.io

Replacing the battery

1. Open the back cover as shown in Fig. 4.
2. Extract the exhausted battery by first pushing it through the battery holder cutout and then pulling it out as shown in Fig. 5.
3. Slide in a new battery as shown in Fig. 6

⚠**CAUTION!** *Use only 3 V CR2032 or a compatible battery! Pay attention to the battery polarity!*

4. Replace the back cover by pressing it to the sensor unit at the four angles until you hear a clicking sound as shown in Fig. 7.

Troubleshooting

In case you encounter problems with the installation or operation of Shelly BLU Door/Window, please check its knowledge base page:
https://shelly.link/blu-dw_KB

Specifications

- Dimensions:
  - 35x35x7 mm / 1.38x1.38x0.27 in (sensor unit)
  - 35x12x7 mm / 1.44x0.47x0.27 in (magnet)
- Weight:
  - 10 g / 0.35 oz (sensor unit with battery)
  - 8 g / 0.28 oz (magnet)
- Working temperature: -20°C to 40°C
- Humidity 30 % to 70 % RH
- Power supply: 1x 3 V CR2032 battery (included)
- Battery life: 5 years
- Radio protocol: Bluetooth
- RF band: 2400 - 2483.5 MHz
- Max. RF power: < 4 dBm
- Beacon function: Yes
- Encryption: AES encryption (CCM mode)
- Operational range (depending on local conditions):
  - up to 30 m outdoors
  - up to 10 m indoors

Declaration of conformity

Hereby, Shelly Europe Ltd. (former Allterco Robotics EOOD) declares that the radio equipment type Shelly BLU Door/Window in compliance with Directive 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/EU. The full text of the EU declaration of conformity is available at the following internet address:
https://shelly.link/blu-dw_DoC

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Manufacturer: Shelly Europe Ltd.
Address: 103 Cherni vrah Blvd., 1407 Sofia, Bulgaria
Tel.: +359 2 988 7435
E-mail: support@shelly.cloud
Official website: https://www.shelly.com

Changes in the contact information data are published by the Manufacturer on the official website.
https://www.shelly.com