




# Shelly BLU Door or Window Sensor User Guide

[Home](#) » [Shelly](#) » Shelly BLU Door or Window Sensor User Guide 

## Contents

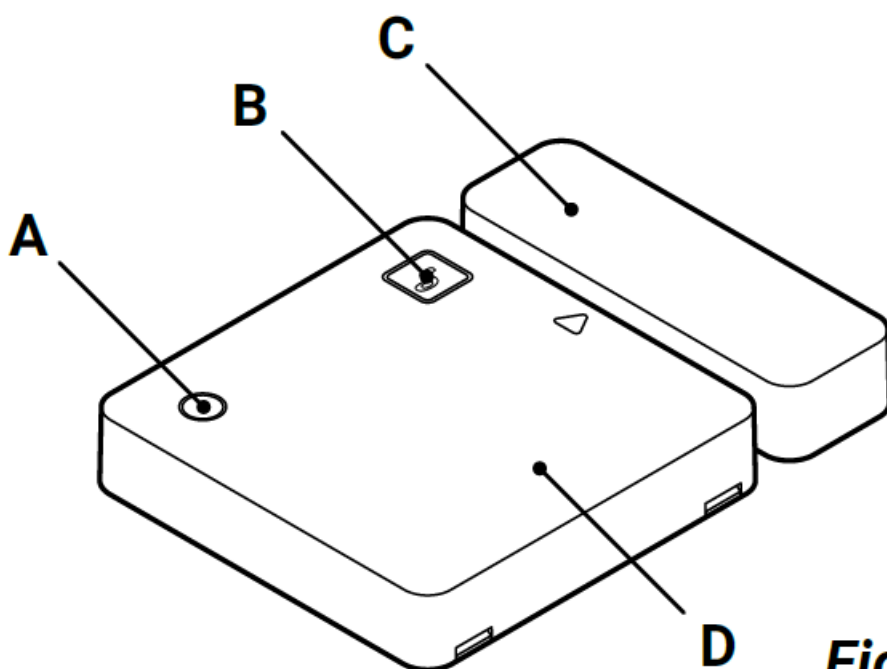
- [1 Shelly BLU Door or Window Sensor](#)
- [2 SHELLYBLU DOOR/WINDOW](#)
- [3 Installation Instructions](#)
- [4 Mounting](#)
- [5 Using ShellyBLU Door/Window](#)
- [6 Replacing the battery](#)
- [7 Troubleshooting](#)
- [8 Specifications](#)
- [9 Declaration of conformity](#)
- [10 Documents / Resources](#)
  - [10.1 References](#)



**Shelly BLU Door or Window Sensor**



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



***Fig.1/Abb.1***

## **SHELLYBLU 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). Allterco Robotics EOOD 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, Allterco Robotics EOOD 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. Allterco Robotics EOOD 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**

ShellyBLU 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.
- Do not use if the Device has been damaged!
- Do not attempt to service or repair the Device yourself!
- 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.

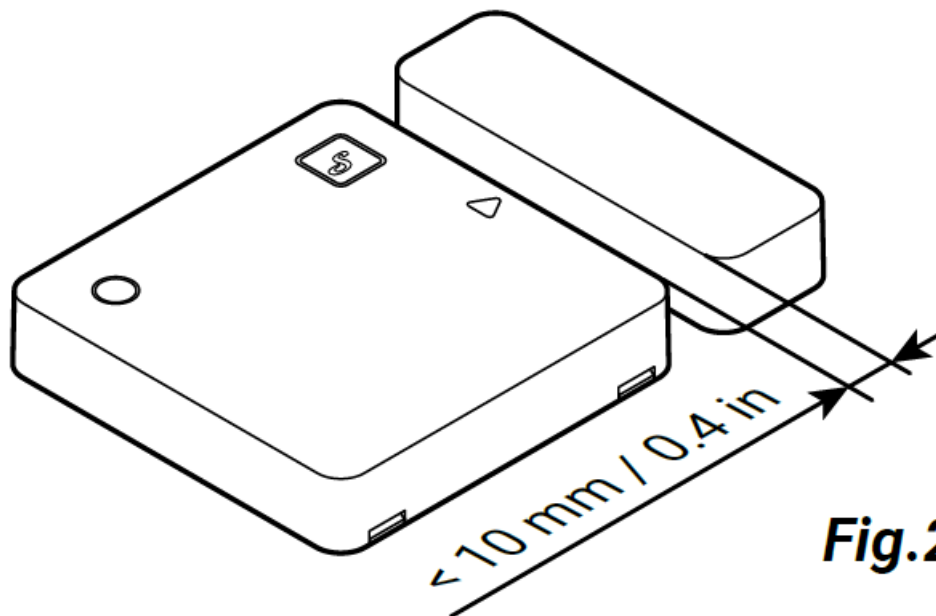
### **First steps**

ShellyBLU 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.



**Fig.2/ Abb.2**

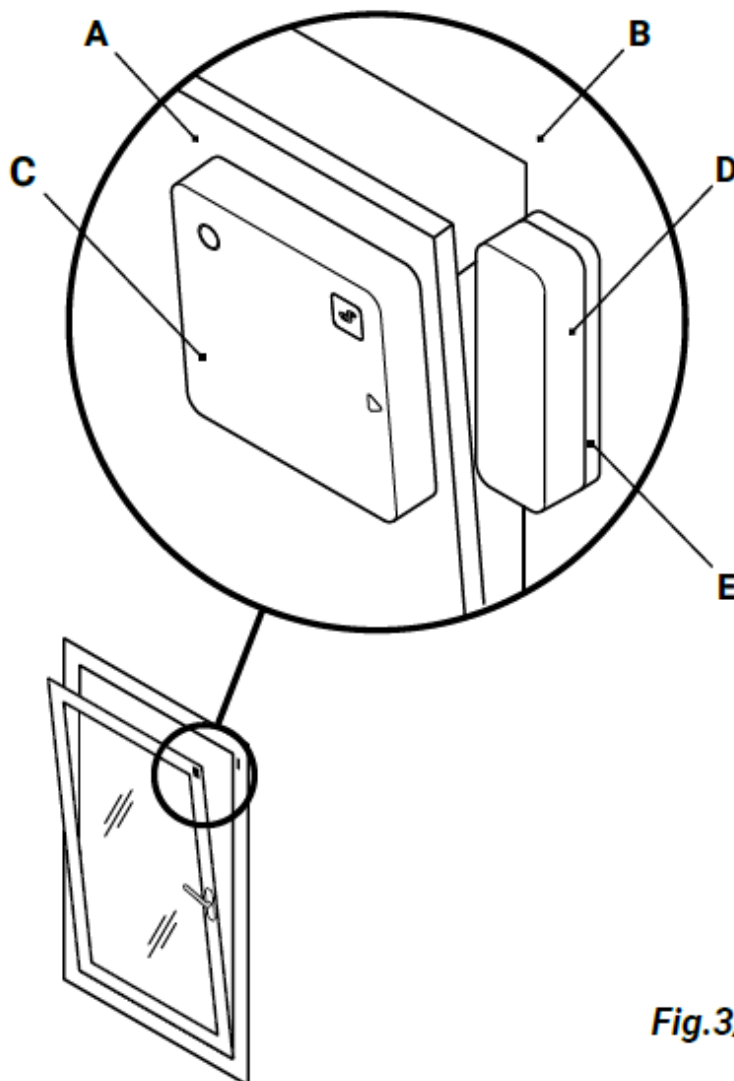
You can place the magnet left, right, above, or below the sensor unit.

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.



**Fig.3/Abb.3**

## Using ShellyBLU Door/Window

If a conventional door or window is opened, the De-vice 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 ShellyBLU 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

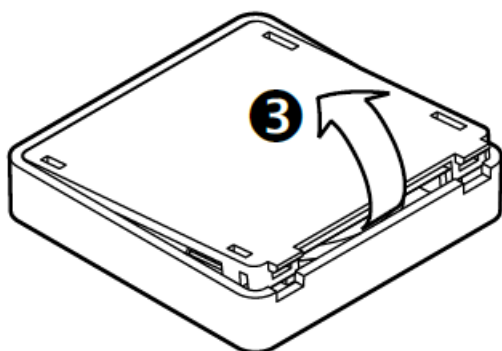
If you choose to use the Device with the Shelly Smart Control mobile application and cloud service, instructions on how to connect the Device to the Cloud and control it through the Shelly Smart Control app can be found in the

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.

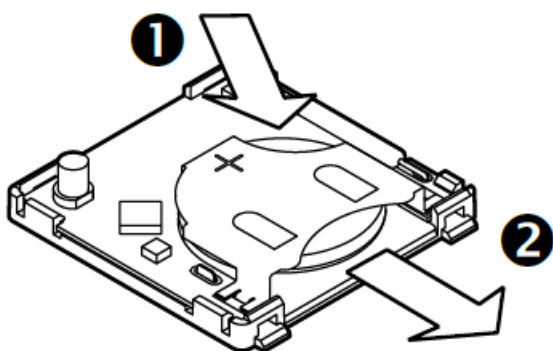
For more information visit [bthome.io](https://bthome.io)

## Replacing the battery

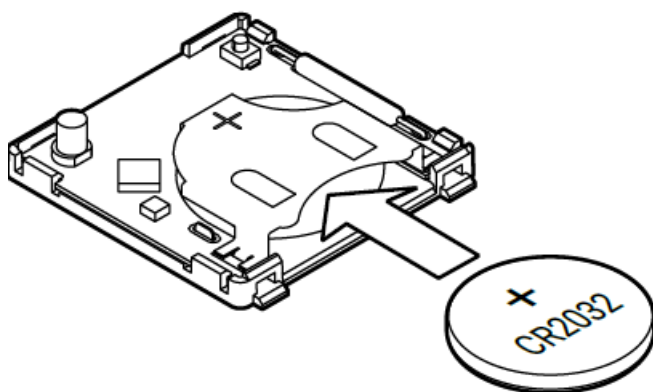
1. Open the back cover as shown in Fig. 4.
2. Extract the exhausted battery by first pushing it through the battery holder cutout and then pulling it out as shown in Fig. 5.
3. Slide in a new battery as shown in Fig. 6



**Fig.4/Abb.4**



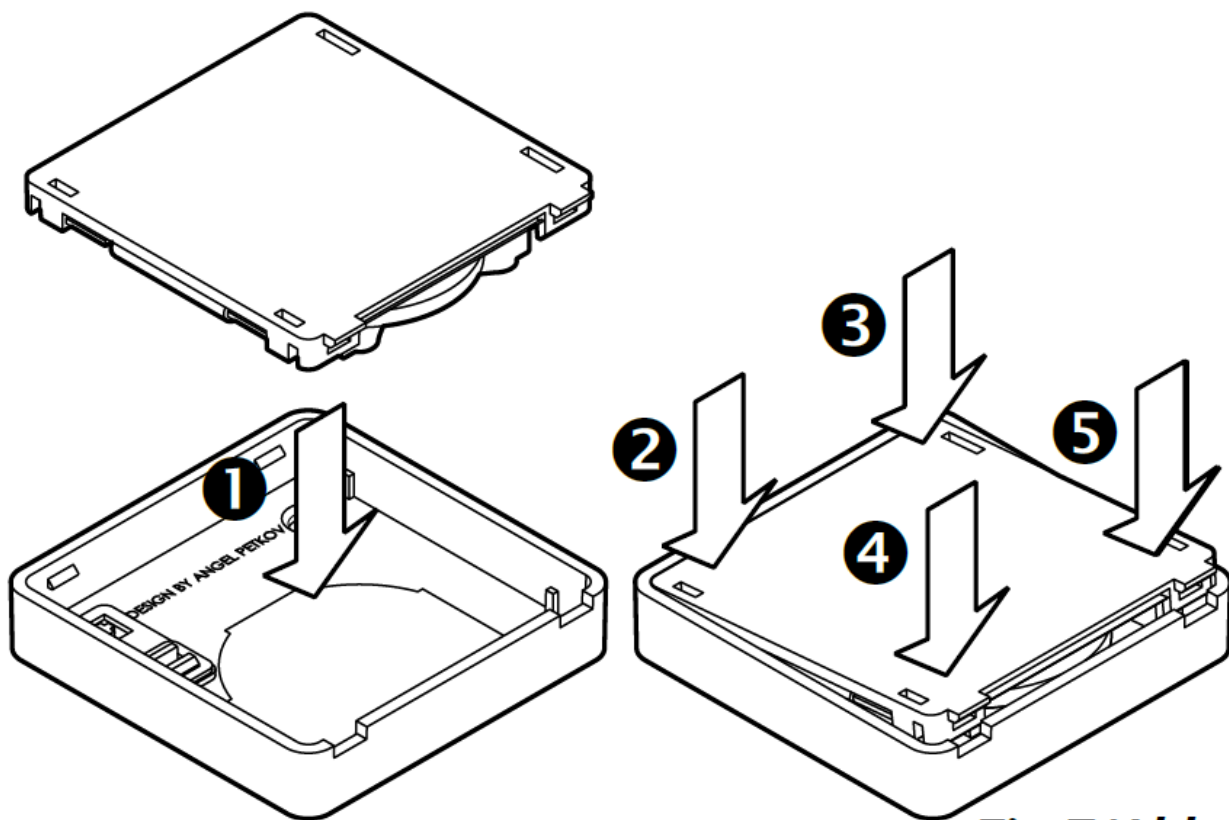
**Fig.5/Abb.5**



**Fig.6/Abb.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.



**Fig.7/Abb.7**

## Troubleshooting

In case you encounter problems with the installation or operation of ShellyBLU Door/Window, please check its knowledge base page: [https://shelly.link/blu-dw\\_KB](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, Allterco Robotics EOOD declares that the radio equipment type ShellyBLU 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](https://shelly.link/blu-dw_DoC)

Manufacturer: Allterco Robotics EOOD


Address: 103 Cherni vrah Blvd., 1407 Sofia, Bulgaria Tel.: +359 2 988 7435

E-mail: [support@shelly.cloud](mailto:support@shelly.cloud)





Official website: <https://www.shelly.cloud> Changes in the contact information data are published by the Manufacturer on the official website. <https://www.shelly.cloud>

All rights to the trademark Shelly® and other intellectual rights associated with this Device belong to Allterco Robotics EOOD.

## Documents / Resources

	<a href="#">Shelly BLU Door or Window Sensor</a> [pdf] User Guide BLU Door or Window Sensor, BLU, Door or Window Sensor, Door Sensor, Window Sensor, Sensor
---	--

## References

-  [BTHome: Open standard for broadcasting sensor data over Bluetooth LE](#)
-  [Shelly BLE devices](#)
-  [ShellyBLU Door/Window](#)
-  [ShellyBLU Door/Window](#)

[Manuals+](#)