



ShellyBLU Door/Window



Device identification

Device name: **ShellyBLU Door/Window**
Device model: **SBDW-002C**

Short description

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

Features

- Long battery life
- Door/window opening and closing detection
- Door/window inclination angle measurement
- Illumination measurement
- Beacon mode
- Encrypted mode

Main applications

- Residential
- MDU (Multi Dwelling Units - apartments, condominiums, hotels, etc.)
- Light commercial (small office buildings, small retail/restaurant/gas station, etc.)
- Government/municipal
- University/college

Connectivity

Bluetooth

Modes of operation

Regular mode - the Device broadcasts the current open/closed state, illuminance, and battery status each time the open/closed state changes (door/window opened or closed). If a door or window, which tilts and turns is opened, the Device immediately broadcasts information about the event, the illumination, and the battery status at the time of the opening detection. Two seconds later, it broadcasts inclination angle, the illumination, and the battery status at the moment. Then every 8 seconds the Device checks the inclination angle. If a change is detected, the Device broadcasts the new angle value.

Beacon mode - the Device broadcasts the current open/closed state, illuminance, and battery status every 30 seconds. You can enable the Beacon mode from the Device settings in the Shelly Smart Control application. For more details, visit the [Shelly Smart Control guide](#).



The battery life may be significantly reduced when the Device is in Beacon mode.

User interface

Inputs

One push button

Press and hold for 10 sec to pair ShellyBLU Door/Window with another Bluetooth device.

Press and hold for 30 sec to factory reset (possible only shortly after inserting the battery).

Specifications

Type	Value
Physical	
Size (HxWxD):	<ul style="list-style-type: none">35x35x7 mm±0.5 mm / 1.38x1.38x0.27 in ±0.02 in (Sensor unit)35x12x7 ±0.5 mm / 1.44x0.47x0.27 in ±0.02 in (Magnet)
Weight:	<ul style="list-style-type: none">10 g ±1 g / 0.35 ±0.05 oz (Device with the battery)8 g ±1 g / 0.28 ±0.05 oz (Magnet)
Shell material:	Plastic
Color:	White, black, brown
Environmental	
Ambient temperature:	-20 °C to 40 °C / -5 °F to 105 °F
Humidity:	30 % to 70 % RH
Electrical	
Power supply:	1x 3 V CR2032 battery (included)
Battery life:	5 years
Sensors	
Reed switch	Yes
G-sensor	Yes
Light sensor	Yes
Radio	
RF band:	2400 - 2483.5 MHz

Max RF power:	<4 dBm
Bluetooth Protocol:	4.2
Bluetooth Range:	Up to 10 m/ 33 ft indoors and 30 m/ 100 ft outdoors (Depends on local conditions)

MCU

CPU:	EFR32BG22C222F352GM32
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Firmware capabilities

Encryption:	AES encryption (CCM mode)
Beacon mode:	Yes

Troubleshooting

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Components and APIs

- [This device](#)
- [All Shelly devices and services](#)

Compliance

[Shelly BLU Door Window multilingual EU declaration of conformity.pdf](#)

Battery material safety data sheet

[CR-PSDS-01 Panasonic MSDS](#)

Printed user guide

[Shelly BLU DoorWindow multilingual printed user and safety guide.pdf](#)

Installation guides



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