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Shelly WAVEDW Z-Wave Door/Window Smart Sensor Instruction Manual

Contents

Shelly WAVEDW Z-Wave Door/Window Smart Sensor

Z-Wave® Smart sensor with angle and illumination measurement

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 carefully 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 to follow the user and safety instructions in this guide.

TERMINOLOGY

Gateway – A Z-Wave® gateway, also referred to as a Z-Wave® controller, Z-Wave® main controller, Z-Wave® primary controller, or Z-Wave®hub, etc., is a device that serves as a central hub for a Z- Z-Wave® smart home network. The term "gateway" is used in this document.

S button – The Z-Wave® Service button, which is located on Z-Wave® devices and is used for various functions such as inclusion (adding), exclusion (removing), and resetting the device to its factory default settings. The term "S button" is used in this document.

Device – In this document, the term "Device" is used to refer to the Shelly Wave device that is a subject of this guide.

ABOUT SHELLY WAVE

Shelly Wave is a line of innovative microprocessor-managed devices, which allow remote control of electric circuits and/or environmental sensing with a smartphone, tablet, PC, or home automation system. They work on Z-Wave® wireless communication protocol, using a gateway, which is required for the configuration of the devices. When the gateway is connected to the internet, you can control Shelly Wave devices remotely from anywhere. Shelly Wave devices can be operated in any Z-Wave® network with other Z-Wave® certified devices from other manufacturers. All mains-operated nodes within the network will act as repeaters regardless of vendor to increase the reliability of the network. Devices are designed to work with older generations of z- Wave® devices and gateways.

ABOUT THE DEVICE

The Shelly Wave Door/Window sensor is a Z-Wave device designed to detect the opening and closing of doors or windows. Beyond simple detection, it can also measure the angle of inclination for doors or windows that tilt or turn. Additionally, the sensor is equipped with a built-in light sensor, offering enhanced functionality for smart home automation.

FIRST STEPS

Shelly Wave Door/Window comes ready to use with the battery installed. Before usage of the Device, remove the protective foil from the battery compartment to activate the battery. However, if pressing its button does not make the Device start emitting signals, you might need to insert or change a battery. See the Replacing the Battery section.

WARNING! Even used batteries may cause severe injury or death. Call a local poison control center for treatment information!
WARNING! Do not force discharge, recharge, disassemble, heat above the manufacturer's specified temperature rating, or incinerate! Doing so may result in injury due to venting, leakage, or explosion resulting in chemical burns.
WARNING! Do not recharge non-rechargeable batteries!
CAUTION! Remove and immediately recycle or dispose of exhausted batteries according to your local regulations!
CAUTION! If the Device is not used for an extended period, remove the battery. Reuse it if it still has power or dispose of it according to local regulations if it is exhausted.
CAUTION! Do not dispose of batteries in household trash or incinerate them! Batteries can emit hazardous compounds or cause fire if not disposed of properly.
CAUTION! Ensure the batteries are installed correctly according to polarity (+ and -).
CAUTION! Use only 3 V CR2032 or a compatible battery!
CAUTION! Always completely secure the battery compartment! If the battery compartment does not close

securely, stop using the product, remove the batteries, and keep them away from children.
WARNING! Do not allow children to play with the magnets. Even relatively small magnets can cause serious injury if swallowed.
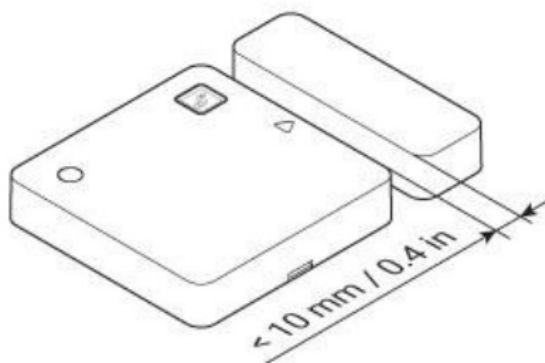**CAUTION**! Keep the Device away from liquids and moisture. The Device shouldn't be used in places with high humidity.

Packing List

- A: Light sensor
- B: Control button
- C: Magnet
- D: Sensor unit
- E: LED indication
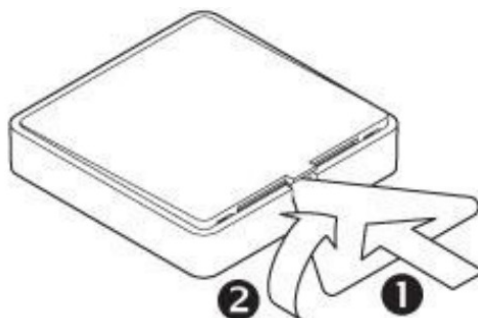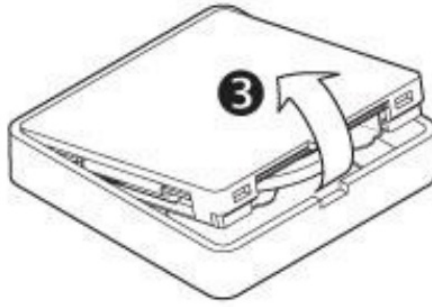- F: Battery protective foil
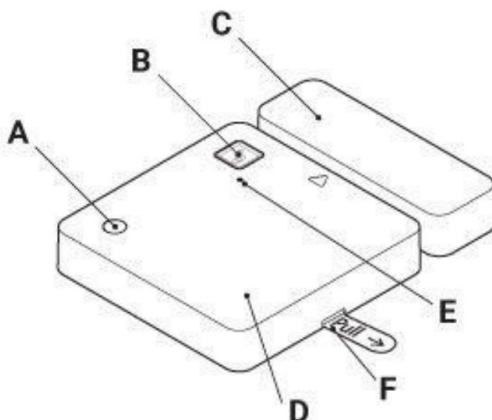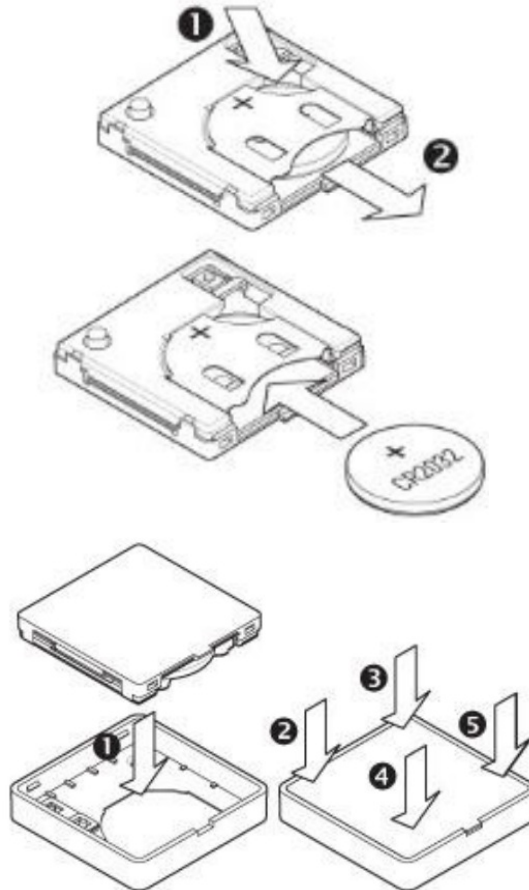
DIMENSION

REPLACING THE BATTERY

1. Open the back cover.

2. Extract the exhausted battery by first pushing it through the battery holder cutout and then pulling it out.


3. Slide in a new battery.
4. Replace the back cover by pressing it to the sensor unit at the four angles until you hear a clicking sound.

INSTALLATION INSTRUCTIONS

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 turn the sensor left, right, upwards or downwards. If you want to monitor a door or window that tilts and turns, mount the sensor unit (D) on the door or the window (A) and the magnet (C) 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.
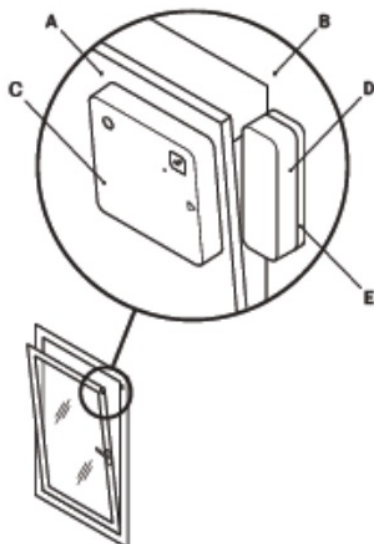
SPECIFICATIONS

Power supply	1x 3 V CR2032 battery (included)
Battery life	2 years
Reed switch	Yes
G-sensor	Yes
Light sensor	Yes
Distance	Up to 40 m indoors (131 ft.) (depends on local condition)
Z-Wave repeater:	No
CPU	Z-Wave S800
Z-Wave frequency band	908.4 MHz

Size (H x W x D)	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)
Shell material	Plastic
Color	White, brown, black
Ambient temperature	-20°C to 40°C / -5°F to 105°F
Humidity	30 % to 70 % RH

OPERATIONAL INSTRUCTIONS

If a conventional door or window is opened or closed the Device will immediately broadcast information about (open/close) event and battery status (if changed) by default. The illumination and angle information are transmitted if enabled by parameters at the time of the opening detection.

IMPORTANT DISCLAIMER
Z-Wave® wireless communication may not always be 100% reliable. This Device should not be used in situations in which life and/or valuables are solely dependent on its functioning. If the Device is not recognized by your gateway or appears incorrectly, you may need to change the Device type manually and ensure that your gateway supports Z-Wave Plus® multi-channel devices.

DISPOSAL & RECYCLING
This refers to the waste of electrical and electronic equipment. It is applicable in the US and other countries to collect waste separately. This symbol on the product or in the accompanying literature indicates that the product should not be disposed of in the daily waste. Shelly Wave Pro Dimmer 2 PM must be recycled to avoid possible damage to the environment or human health from uncontrolled waste disposal and to promote the reuse of materials and resources. It is your responsibility to dispose of the device separately from general household waste when it is already unusable.

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.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification or change to this equipment. Such modifications or changes could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, under 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 by 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 the receiver.
- Connect the equipment to 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.

RF exposure statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The device has been evaluated to meet general RF exposure requirements. The device can be used in portable exposure conditions without restriction.

MANUFACTURER:
Shelly Europe Ltd.
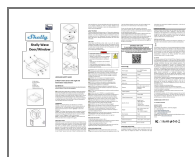**Address**: 103 Cherni Crash Blvd., 1407 Sofia, Bulgaria
Tel.: +359 2 988 7435
E-mail: **zwave-shelly@shelly.cloud**
Support: **https://support.shelly.cloud/**
Web: **https://www.shelly.com**
Changes in the contact data are published by the Manufacturer at the
official website: **https://www.shelly.com**

Documents / Resources

	Shelly WAVEDW Z-Wave Door/Window Smart Sensor [pdf] Instruction Manual 2BDC6-WAVEDW, 2BDC6WAVEDW, WAVEDW Z-Wave Door Window Smart Sensor, WAVEDW, Z-Wave Door Window Smart Sensor, Door Window Smart Sensor, Smart Sensor, Sensor

References

- ꩜ **Shelly Wave devices**
- **User Manual**