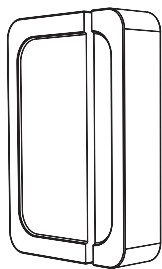


OBLO Living Door/Window Sensor DC100

DWS-RT-ZBO



USER MANUAL



OBLO LIVING

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Congratulations and thank you for purchasing OBLO Living Door/Window sensor. Below you will find useful operating guidelines.

DEVICE DESCRIPTION

OBLO Living Door/Window sensor (Illustration 1) is wirelessly controlled electronic switch that combines features of contact state changes detection, temperature measurement and tamper switch. The device is compliant with ZigBee Home Automation (ZHA) 1.2 and is guaranteed to function with any ZHA 1.2-compliant system. In addition, it allows pairing with any device supporting ZHA binding feature.

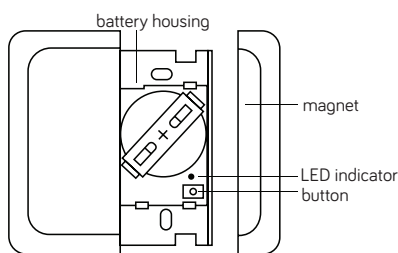


Illustration 1

OBLO Living Door/Window sensor is battery operated device (battery type CR2450).

BATTERY ACTIVATION

Given the fact that the Door/Window sensor has pre-installed battery, in order to properly activate the battery, you should gently remove the protective film from the battery connector.

In case you need to install new battery, gently open device housing and place the battery as shown in Illustration 2. After installing the battery, wait until the LED indicator turns off before proceed to device setup.

NOTE:

When inserting battery, make sure the polarity is correct!

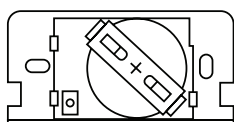


Illustration 2

PREPARATION

After activating it for the first time Door/Window sensor is not associated with any ZigBee network. In order to enable proper functioning Door/Window sensor has to be added to the existing ZHA 1.2-compliant system or paired with any device supporting ZHA binding feature.

DOOR/WINDOW SENSOR AS A PART OF EXISTING ZHA 1.2-COMPLIANT SYSTEM

In order to add Door/Window sensor to existing ZHA 1.2-compliant system please follow next steps:

1. Remove protection film from the Door/Window sensor's battery connector. Once the protection film is removed the device should automatically enter the network joining procedure.
2. Timeout for network joining is 3 minutes. In case device didn't enter the network during this time, it will switch to sleep state. During sleep state, the user is able to initiate network joining procedure again by pressing the button once.

Door/Window sensor features within existing ZHA 1.2-compliant system:

Main features of Door/Window sensor as a part of existing ZHA 1.2-compliant system are:

1. Contact state changes detection
2. Room temperature measurement (precise temperature is reached 30-45 minutes after sensor installation)

3. Tamper switch, which alerts unauthorized activities. Tamper mode is activated when sensor housing is closed for longer than 15 seconds. After activating tamper mode, LED indication will start blink red and green alternately

PAIR DOOR/WINDOW SENSOR WITH OTHER DEVICE

In order to pair Door/Window sensor with other device supporting ZHA binding feature please follow the procedure below. Since Door/Window sensor is initiator device, the procedure assumes that pairing device has a role of target device. For additional information about other pairing options please contact our technical support at support@obloiving.com

1. Create ZigBee network on pairing device according to manufacturer's instructions
2. Add Door/Window sensor to pairing device's ZigBee network:
 - a. On pairing device start joining procedure according to manufacturer's instructions
 - b. On Door/Window sensor press button once in order to start joining procedure. During the procedure, LED indication will blink red
 - c. Upon successful joining LED will blink green 5 times
3. Pair Door/Window sensor as an initiator with the device as an actuator:
 - a. On pairing device start pairing procedure according to manufacturer's instructions
 - b. On Door/Window sensor press button 2 times in order to start pairing procedure. During the procedure, LED indication will blink green
 - c. Upon successful pairing the end user is able to control paired device from Door/Window sensor

Set delay time

Once you have paired Door/Window sensor with other device, you will be able to set delay time between sensor activation and other device action. In order to set delay time, please follow next steps:

1. Press and hold button until LED indicator goes red
2. After releasing the button, press it again 1 to 5 times in order to set desired delay time (Table 1). During the operation, LED will light green

NOTE: Default delay time is 5 minutes.

Button operation	Delay time
1x short press	5 minutes
2x short press	10 minutes
3x short press	15 minutes
4x short press	20 minutes
5x short press	30 minutes

Table 1

INSTALLATION

In order to install Door/Window sensor properly, make sure that sensor and magnet are placed as shown in Illustration 3. Maximum distance between sensor and magnet is 1 cm.

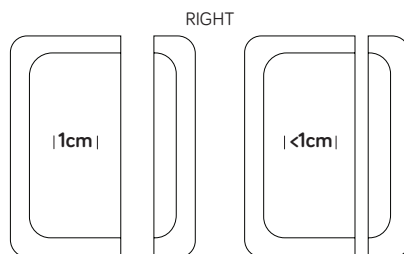


Illustration 3

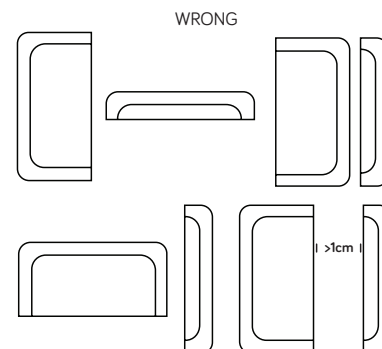


Illustration 4

NOTE:

Test the Sensor from desired location before permanently mounting it.

Place the sensor and magnet on the desired location using supplied mounting screws or adhesive strips (make sure that the surface is clean when using adhesive strips).

FACTORY RESET

In order to restore your Door/Window sensor to default factory settings please follow next steps:

1. Press button 10 times to reset the device to factory settings
2. After successful operation, LED will light red

BUTTONS/FUNCTIONS

Button operation	Action	LED indication
1x short press	Join ZigBee network	Blink red
2x short press	Pair as initiator	Blink green
10x short press	Factory reset	Red
Long press (up to 5 seconds)	Set delay time	Red
Long press (approx. 15 seconds)	Tamper mode	Red and green alternately

TECHNICAL DATA

Communication Protocol	ZigBee
Range	Up to 15m
Operating Temperature	-5 to 45 °C
Protection Degree	IP20
Power	1 x CR-2450 battery, pre-installed
Temperature Measurement	-5 to 45 °C; Accuracy: ~1 °C
Dimensions	W x H x D: 37 x 60 x 14 mm

ATTENTION!

- ⚠ **WARNING!** For indoor use only!
- ⚠ **WARNING!** Using Door/Window sensor in a manner other than outlined in this document is not allowed.
- ⚠ **WARNING!** When inserting the battery, make sure that the polarity is correct!
- ⚠ **ATTENTION!** Always keep batteries away from open flame and high temperatures. Avoid exposure to direct sunlight!

DECLARATIONS OF CONFORMITY

Hereby, OBLO Living LLC declares that Door/Window sensor is in compliance with the essential requirements and other relevant provisions of following European directives:

- Council Directive LVD (2014/35/EU)
- Council Directive EMC (2014/30/EU)
- Council Directive RED (2014/53/EU)
- Council Directive ROHS (2002/95/CE)