

Knowledge Base / Devices / Shelly BLE devices

## Shelly BLU Motion



### Device identification

- Device name: **ShellyBLU Motion**
- Device model: **SBMO-003Z**

### Short description

ShellyBLU Motion (the Device) is a smart Bluetooth motion detection sensor featuring a lux meter.

### Features

- Long battery life
- 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



## Modes of operation

- Regular mode - the Device broadcasts the motion detection status, illuminance, and battery status each time the motion-detection status changes (motion is detected or no motion is detected during the blind time). You can adjust the blind time from the Device settings in the Shelly Smart Control application. For more details, visit the [Shelly Smart Control guide](#).
- Beacon mode - the Device broadcasts the motion detection status, 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 (behind the back cover)
  - Press and hold for 10 sec to pair ShellyBLU Motion with another Bluetooth device.
  - Press and hold for 30 sec to factory reset (possible only shortly after inserting the battery).
  - Double-press to set the Device in test mode. For a minute, the Device will broadcast every motion detection, indicating it by a red flash.

## Specifications



Type	Value
Physical	
Size (HxWxD):	32x42x27 ±0.5 mm / 1.26x1.65x1.06 ±0.02 in
Weight:	26 ±1 g / 0.92 ±0.05 oz (Device with the battery)
Shell material:	Plastic
Color:	White
Environmental	
Ambient temperature:	-20 °C to 40 °C / -5 °F to 105 °F
Humidity:	30 % to 70 % RH
Electrical	
Power supply:	1x 3 V CR2477 battery (included)

Battery life:	5 years
<b>Sensors</b>	
PIR	Yes
Light sensor	Yes
<b>Radio</b>	
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)
<b>MCU</b>	
CPU:	EFR32BG22C222F352GM32
<b>Firmware capabilities</b>	
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 Motion multilingual EU declaration of conformity.pdf](#)

## Battery material safety data sheet

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

## Printed user guide

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

## Installation guides



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