

✦ Use with AI

Shelly BLU Motion ZB



Device identification

- Device name: **Shelly BLU Motion ZB**
- Device model: **SBMO-103Z**
- Device Bluetooth ID: **0x0013**

Short description

Shelly BLU Motion ZB (the Device) is a compact, battery-powered motion sensor designed to bring smart automation to any space without wiring or drilling. It detects movement and ambient brightness in one device, making it ideal for automating lights, scenes, and notifications based on real activity and actual room conditions.

With dual wireless connectivity, BLU Motion ZB combines flexible Zigbee-based smart home integration with low-energy Bluetooth capabilities for advanced presence and automation scenarios. Adjustable motion sensitivity and configurable light thresholds help you fine-tune when and how your automations trigger, while the long-life CR2477 battery keeps it running reliably for extended periods.

Main features

- Battery-powered by a single CR2477 cell, providing long, maintenance-friendly operation without wiring
- Integrated motion detection with adjustable sensitivity, so you can tailor responsiveness for hallways, living rooms, or quieter areas
- Built-in lux sensor with three configurable levels (dark, twilight, bright), including customizable thresholds between levels for precise light-based automations
- Easy, tool-free installation using the included double-sided adhesive, allowing you to place the sensor exactly where it's needed
- Zigbee 3.0 and Bluetooth 5 LE, supporting simultaneous Zigbee + Bluetooth operation for flexible system design
- Supports BTHome, enabling straightforward data integration into Shelly and compatible smart home platforms

Use cases

- Install BLU Motion ZB in a hallway to automatically switch on lights only when someone passes by and the lux sensor reports low ambient light. This reduces energy usage by avoiding unnecessary lighting during the day while ensuring safe, hands-free navigation at night.
- Place the sensor in a living room and combine motion detection with the adjustable twilight level to trigger cozy evening scenes. Lights, blinds, or other Zigbee-connected devices can respond only when the room is both occupied and naturally dim, keeping the environment comfortable and efficient.
- Use BLU Motion ZB in a home office to turn lights and related equipment on when motion is detected and sufficient brightness isn't already present. When no motion is registered for a set period, your

Zigbee automation can switch everything off, helping to cut standby consumption.

- Mount the sensor near an entryway to act as a subtle security and awareness device, triggering notifications or lighting when unexpected motion is detected in darker conditions. With sensitivity adjustment, you can reduce false triggers from pets or distant movement.

Connectivity

- Bluetooth
- Zigbee

User interface

Inputs

- One push button
 - Press 4 times quickly to put Shelly BLU Motion ZB into pairing mode. The LED starts flashing in blue for one minute.
 - Press 5 times quickly to activate Zigbee pairing. The LED starts flashing purple for one minute.
 - Press and hold for 30 sec to factory reset. The LED will flash in red for two seconds and the device will restart.

Outputs

- The device will broadcast every motion detection, indicating it by a red flash. This LED flash can be turned of from the Shelly app.

Specifications



Type	Value
Physical	
Size (HxWxD):	Sensor only 28x37x37 mm / 1.10x1.46x1.46 inch Sensor with mount 28x44x42 mm / 1.10x1.73x1.65 inch
Weight:	Sensor only 28 g / 1.02 oz Sensor with mount 33 g / 1.16 oz
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
Sensors	
PIR	Yes
Light sensor	Yes
Bluetooth	

Protocol:	5 (LE)
RF band:	2400 - 2483.5 MHz
Max. RF power:	<8 dBm
Bluetooth Range:	Up to 10 m / 33 ft indoors and 30 m / 100 ft outdoors (Depends on local conditions)
Zigbee	
Protocol:	802.15.4
RF band:	2405 to 2480 MHz
Max. RF power:	< 8 dBm
Range:	Up to 10 m / 33 ft indoors and 30 m / 100 ft outdoors (Depends on local conditions)
MCU	
CPU:	EFR32MG27
Flash:	768 kB
Firmware capabilities	
Encryption:	AES encryption (CCM mode)
Beacon mode:	Yes
Other	
Supported Devices	- Shelly Plus / Gen3 / Gen4 series - Shelly Pro series

Components and APIs

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

Compliance

- [Shelly BLU Motion ZB UK PSTI ACT statement of compliance 296 2026-06-09.pdf](#)
- [Shelly BLU Motion ZB UKCA declaration of conformity 296 2026-06-09.pdf](#)
- [Shelly BLU Motion ZB multilingual EU declaration of conformity 296 2026-06-09.pdf](#)

Printed user guide

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

