

Shelly Motion 2 Wi-Fi Motion Sensor User Guide

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Shelly Motion 2 Wi-Fi Motion Sensor



READ BEFORE USE

This document contains important technical and safety information about the device, its safe use, and its installation.

CAUTION!

Before beginning the installation, please read this guide and any other documents accompanying the device carefully and completely. Failure to follow the installation procedures could lead to malfunction, danger to your health and life, violation of the law, or refusal of legal and/or commercial guarantee (if any). Allterco Robotics EOOD is not responsible for any loss or damage in case of incorrect installation or improper operation of this device due to failure of following the user and safety instructions in this guide.

PRODUCT INTRODUCTION

Shelly® is a line of innovative microprocessor-managed devices, which allow remote control of electric circuits through a mobile phone, tablet, PC, or home automation system. Shelly® devices can work standalone in a local Wi-Fi network or they can also be operated through cloud home automation services. Shelly Cloud is a service that can be accessed using either Android or iOS mobile application, or with any internet browser at https://home.shelly.cloud/. Shelly® devices can be accessed, controlled and monitored remotely from any place where the User has internet connectivity, as long as the devices are connected to a Wi-Fi router and the Internet. Shelly® devices have an embedded Web Interface accessible at http://192.168.33.1 when connected directly to the device's access point, or at the device's IP address on the local Wi-Fi network. The embedded Web Interface can be used to monitor and control the device, as well as adjust its settings. Shelly® devices can communicate directly with other Wi-Fi devices through HTTP protocol. An API is provided by Allterco Robotics EOOD. For more information, please visit https://shelly-api-docs.shelly. cloud/#shelly-family-overview. Shelly® devices are delivered with factory-installed firmware. If firmware updates are necessary to keep the devices in conformity, including security updates, Allterco Robotics EOOD will provide the updates free of charge through the device embedded Web Interface or Shelly Mobile Application, where the information about the current firmware version is available. The choice to install or not the Device firmware updates is the User's sole responsibility. Allterco Robotics EOOD shall not be liable for any lack of conformity of the Device caused by the failure of the User to install the provided updates in a timely manner.

WHAT IS SHELLY MOTION 2

Shelly Motion 2 (the Device) is a high-sensitivity, ultra-low power consumption Wi-Fi motion sensor, which also features light and temperature metering. The built-in light and temperature sensors provide additional opportunities for home or office automation. Shelly Motion 2 also has an integrated accelerometer for tamper protection and features vibration detection. The built-in 6500 mAh rechargeable Li-ion battery allows the Device to stay connected to the Internet in standby mode for up to 3 years, and in active transmission (approx. 6 hours/day motion detection) estimated between 12 and 18 months without recharging.

INSTALLATION INSTRUCTION

- △ CAUTION! Do not use the Device if it has been damaged.
- △ CAUTION! Do not attempt to service or repair the Device yourself.

Charging

Prior to using the Shelly Motion 2, please fully charge its battery by plugging the USB Type-C charging adapter cable into the Device charging port (fig.1 B).

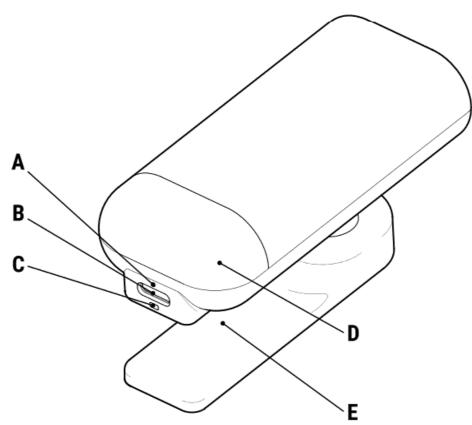
△ **CAUTION!** Use only charging adapters that comply with USB-C standards. Do not charge the Device if the charging adapter or the charging cable are damaged. The red charging indicator (fig. 1 A) next to the charging port will be on while the device is charging. The indicator will go off when the battery is fully charged.

 \triangle **IMPORTANT:** The device heats up during charging, which prevents it from measuring the room temperature correctly.

Starting

Press briefly the Reset button (fig.1 C) using a pin to turn on the Device.

△ CAUTION! Be careful not to insert the pin into the round hole of the charging indicator (fig. 1 A). The reset button has an oblong shape (fig.1 C). The LED indicator behind the motion sensor lens (fig.1 D) will start flashing in red, green, and blue sequentially for a while and then turn steady blue. The Device is now in AP (access point mode).



△ **IMPORTANT:** If the motion sensor detects movement while the Device is in AP mode the LED indication will briefly change to cyan.

△ **IMPORTANT:** If the Device has not been added into your Wi-Fi network in 3 minutes, it will switch off. Press briefly the Reset button to start it again. Pressing the Reset button while the Device is in AP mode will turn off the Device.

Inclusion in Shelly Cloud

If you choose to use the Device with the Shelly Cloud mobile application and Shelly Cloud service, instructions on how to connect the Device to the Cloud and control it through the Shelly App can be found in the App Guide. Shelly Mobile Application and Shelly Cloud service are not conditions for the Device's proper functioning. This Device can be used stand-alone or with various other home automation services and applications.

CAUTION! Do not allow children to play with the buttons/switches connected to the Device. Keep the Devices for remote control of Shelly (mobile phones, tablets, PCs) away from children.

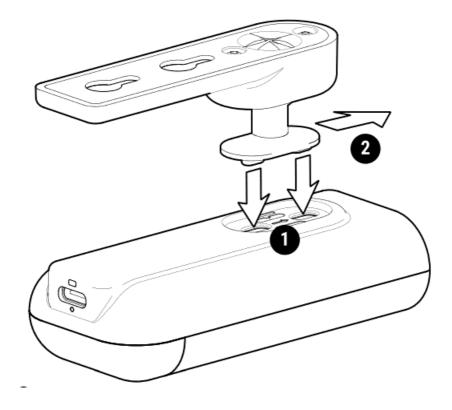
Manual connecting to a local Wi-Fi network

The Device can be managed and controlled through its embedded web interface too. Make sure Shelly Motion 2 is in AP mode. Open the Device Web interface at http://192.168.33.1 when connected directly to the Device access point. Click the Internet & Security button and then select WIFI MODE – CLIENT. Check the Connect the Shelly device to an existing WiFi Network, enter the Wi-Fi network name and password, and click SAVE. Find your Device's IP address in the Wi-Fi network. You can use a simple tool to find Shelly devices in the local network: https://shelly.cloud/documents/device_finders/ShellyFinderOSX.zip (Windows) and https://shelly.cloud/documents/device_finders/ShellyFinderOSX.zip (Mac OSX).

IMPORTANT: Enabling the Client mode will disable the AP mode. In case you need the AP mode again, press and hold the Reset button for 5 seconds. Press and hold the Reset button for 10 seconds to factory reset the Device.

Attaching the stand

Insert the two L-shaped protrusions of the stand (fig.1 E) swiveling arm into the Device body oblong openings and then slide the stand in a direction opposite the charging port as shown in fig. 2.



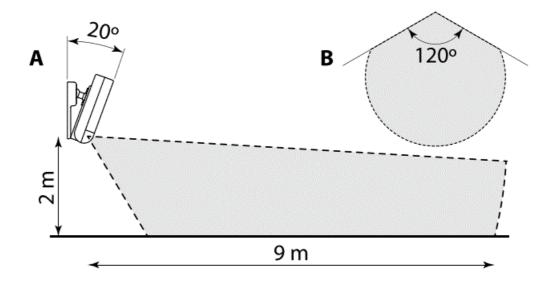
Wall mounting

Use the stencil printed at the end of this booklet to mark the wall where you want to mount the Device. Use screws with a head diameter between 5 and 8 mm.

- △ CAUTION! The product is intended for indoor use only.
- △ **CAUTION!** Protect the product from dirt and moisture.
- △ CAUTION! Do not use the product in a damp environment and avoid water splashing.

DETECTION DIAGRAM

The detection area is shown in fig.3 A: Side view and B: top view (not to scale).



△ **IMPORTANT!** Shelly Motion cannot detect movement through transparent objects.

△ IMPORTANT! Direct sunlight or close heating sources can trigger false motion detection.

LED INDICATION SIGNALS

Blue: AP mode

Blue brief flash: Settings changed Blue flashing: Firmware update

Red brief flash: Motion detected and reported

Red long flash: Error while performing the firmware update.

Green brief flash: Unreported motion detection (the Device is not connected, or motion detection is disabled)

Red, green, and blue flashing sequentially: Tamper detection or Device started

Cyan brief flash: Motion detection while in AP mode. **IMPORTANT!** The LED indication can be disabled.

RESET BUTTON ACTIONS

Press briefly:

While turned off, starts the Device.

While in AP mode, turns off the device. While in Client mode, exits energy saving mode for 3 minutes and send mDNS info. Press for 5 sec: Sets the Device in AP mode. Press for 10 sec: Factory resets the Device.

SPECIFICATIONS

• **Dimensions (HxWxD):** 89.3×41.4×22.9 mm (w/o stand) 89.3×41.4×47.9 mm (w/ stand)

• Working temperature: -10°C — 50°C

• Mounting: Wall (indoor use only)

• Detection range: 9 m

• Battery: Li-ion 3.7 V / 6500 mAh

• Charging: USB Type-C charging adapter

• Battery life: estimated 12 — 18 months (motion detection) up to 3 years (stand by)

• Radio protocol: Wi-Fi 802.11 b/g/n

• Max. RF output power: 20dBm

• Frequency: 2412 - 2472 MHz (Max. 2495 MHz)

• Operational range: up to 30 m (depends on building construction and materials)

MQTT: YESCoAP: YES

• REST API: YES

• URL Actions: 13 with 5 URLs each

Schedules: 20CPU: SiLabsFlash: 6MB

DECLARATION OF CONFORMITY

Hereby, Allterco Robotics EOOD declares that the radio equipment type Shelly Motion 2 is in compliance with Directive 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/EU. The full text of the EU declaration of conformity is available at the following Internet

address: https://shelly.cloud/knowl-edge-base/devices/shelly-motion-2/ Manufacturer: Allterco Robotics EOOD Address: Bulgaria, Sofia 1407, 103 Cherni vrah Blvd.

Tel.: +359 2 988 7435

E-mail: support@shelly.cloud
Web: https://www.shelly.cloud

Changes in the contact data are published by the Manufacturer at the official website: https://www.shelly.cloud All rights to trademark Shelly® and other in-tellectual rights associated with this Device belong to Allterco Robotics EOOD.

Documents / Resources



Shelly Motion 2 Wi-Fi Motion Sensor [pdf] User Guide Motion 2 Wi-Fi Motion Sensor, Motion 2, Wi-Fi Motion Sensor



<u>Shelly Motion 2 Wi-Fi Motion Sensor</u> [pdf] User Guide Motion 2 Wi-Fi Motion Sensor, Motion 2, Wi-Fi Motion Sensor, Motion Sensor, Sensor

References

- Shelly Home
- J Welcome to Shelly Knowledge Base!
- J Welcome to Shelly Knowledge Base!

• Shelly - Shelly

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