

Shelly[®] 2.5

2 Circuit WiFi Relay Switch

USER GUIDE WARRANTY & WARRANTY TERMS

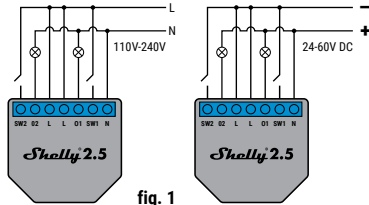


fig. 1

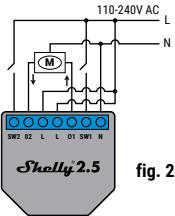


fig. 2

LEGEND:

- N - Neutral input (110-230V AC); + Positive input (24-60V DC)
- L - Line input (110-230V AC); - Negative input (24-60V DC)
- O1 - Output 1;
- O2 - Output 2;
- SW1 - Switch 1 (input controlling O1);
- SW2 - Switch 2 (input controlling O2).

The Shelly[®] Dual WiFi Relay Switch by Allterco Robotics is intended to be mounted into a standard in-wall console, behind power sockets and light switches in order to control and monitor the electric power through it, independent for each channel. Shelly may work as a standalone Device or as an accessory to a home automation controller.

- Purpose of control: Operating
- Construction of control: Independently mounted
- Type 1.B Action
- Pollution Degree 2
- Impulse Voltage: 4000 V

Specification

Power supply:
110-230V ±10% 50/60Hz AC
24-60V DC

Max load per channel:
10A/230V, 50/60Hz
Complies with EU standards:
• RE Directive 2014/53/EU
• LVD 2014/35/EU
• EMC 2004/108/WE
• RoHS 2011/65/UE

Working temperature:
- 40°C up to 40°C

Radio signal power:
1mW

Radio protocol:
WiFi 802.11 b/g/n

Frequency:
2400 - 2500 MHz;

Operational range (depending on local construction):

- up to 50 m outdoors

- up to 30 m indoors

Dimensions (HxWxL):
39 x 36 x 17 mm

Electrical consumption:
< 1 W

Technical Information

- Control through WiFi from a mobile phone, PC, automation system or any other Device supporting HTTP and/or UDP protocol.
- Microprocessor management.
- Controlled elements: 2 electrical circuits/appliances.
- Controlling elements: 2 relays.
- Shelly may be controlled by an external button/switch.

CAUTION! Danger of electrocution. Mounting the Device to the power grid has to be performed with caution.

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

Introduction to Shelly[®]

Shelly[®] is a family of innovative Devices, which allow remote control of electric appliances through mobile phone, PC or home automation system. Shelly[®] uses WiFi to connect to the devices controlling it. They can be in the same WiFi network or they can use remote access (through the Internet). Shelly[®] may work standalone, without being managed by a home automation controller, in the local WiFi network, as well as through a cloud service, from everywhere the User has Internet access.

Shelly[®] has an integrated web server, through which the User may adjust, control and monitor the Device. Shelly[®] has two WiFi modes - access Point (AP) and Client mode (CM). To operate in Client Mode, a WiFi router must be located within the range of the Device. Shelly[®] devices can communicate directly with other WiFi devices through HTTP protocol.

An API can be provided by the Manufacturer. Shelly[®] devices may be available for monitor and control even if the User is outside the range of the local WiFi network, as long as the WiFi router is connected to the Internet. The cloud function could be used, which is activated through the web server of the Device or through the settings in the Shelly Cloud mobile application.

The User can register and access Shelly Cloud, using either Android or iOS mobile applications, or any internet browser and the web site: <https://my.Shelly.cloud/>.

Installation Instructions

CAUTION! Danger of electrocution. The mounting/installation of the Device should be done by a qualified person (electrician).

CAUTION! Danger of electrocution. Even when the Device is turned off, it is possible to have voltage across its clamps. Every change in the connection of the clamps has to be done after ensuring all local power is powered off/disconnected.

CAUTION! Do not connect the Device to appliances exceeding the given max load!

CAUTION! Connect the Device only in the way shown in these instructions. Any other method could cause damage and/or injury.

CAUTION! Before beginning the installation please read the accompanying documentation carefully and completely. Failure to follow recommended procedures could lead to malfunction, danger to your life or violation of the law. Allterco Robotics is not responsible for any loss or damage in case of incorrect installation or operation of this Device.

CAUTION! Use the Device only with power grid and appliances which comply with all applicable regulations. short circuit in the power grid or any appliance connected to the Device may damage the Device.

RECOMMENDATION: The Device may be connected to and may control electric circuits and appliances only if they comply with the respective standards and safety norms.

RECOMMENDATION: The Device may be connected with solid single-core cables with increased heat resistance to insulation not less than PVC T105°C.

Initial Inclusion

Before installing/mounting the Device ensure that the grid is powered off (turned down breakers).

Connect the Relay to the power grid and install it in the console behind the switch/power socket following the scheme that suits the desired purpose.

1. 1. Connecting to the power grid and to 2 separately controlled devices (circuits) - **fig. 1**

2. 2. Connecting to the power grid and to motor with 2 rotating directions and 1 button for controlling the directions of rotation (for electrical curtains, rollers, garage doors etc.) - **fig. 2**

CAUTION! The controlled bidirectional electric motor must have built-in or additionally fitted restrictors (protectors), to turn the power off upon reaching the end point or protection against gripping. The anti-grip function helps in case the garage door encounters an obstacle, its' movement stops and the reverse motion is triggered to release the obstacle.

You may choose if you want to use Shelly with the Shelly Cloud mobile application and Shelly Cloud service. You can also familiarize yourself with the instructions for Management and Control through the embedded Web interface.

Control your home with your voice

All Shelly devices are compatible with Amazon Echo and Google Home.

Please see our step-by-step guide on:

<https://shelly.cloud/compatibility/Alexa>
<https://shelly.cloud/compatibility/Assistant>

Shelly[®] cloud

MOBILE APPLICATION FOR MANAGEMENT OF SHELLY[®]



Shelly Cloud gives you opportunity to control and adjust all Shelly[®] Devices from anywhere in the world.

You only need an internet connection and our mobile application, installed on your smartphone or tablet.

To install the application please visit Google Play (Android - fig. 3) or App Store (iOS - fig. 4) and install the Shelly Cloud app.



fig. 3

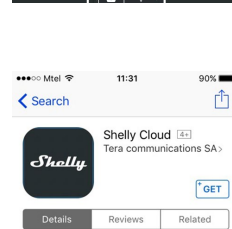
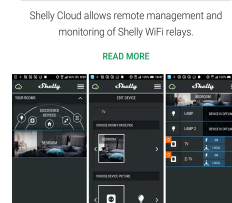
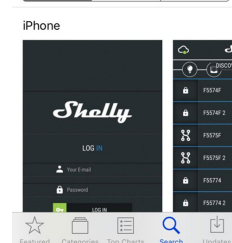


fig. 4



Registration

The first time you load the Shelly Cloud mobile app, you have to create an account which can manage all your Shelly[®] devices.

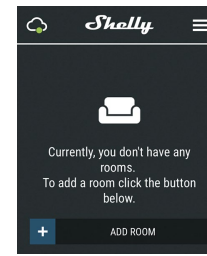
Forgotten Password

In case you forget or lose your password, just enter the e-mail address you have used in your registration. You will then receive instructions to change your password.



WARNING! Be careful when you type your e-mail address during the registration, as it will be used in case you forget your password.

After registering, create your first room (or rooms), where you are going to add and use your Shelly devices.



Shelly Cloud gives you opportunity to create scenes for automatic turning on or off of the Devices at predefined hours or based on other parameters like temperature, humidity, light etc. (with available sensor in Shelly Cloud).

Shelly Cloud allows easy control and monitoring using a mobile phone, tablet or PC.

Device Inclusion

To add a new Shelly device, install it to the power grid following the Installation Instructions included with the Device.

Step 1

After the installation of Shelly in the console behind the power socket/light switch and the power is turned on Shelly will create its own WiFi Access Point (AP).

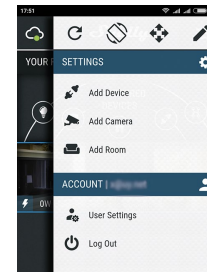


WARNING: In case the Device has not created its own WiFi network with SSID like **shellyswitch25-35FA58** check if you have connected Shelly correctly by the schemes described above. If you do not see an active WiFi network with SSID like **shellyswitch25-35FA58**, reset the Device. If the Device has been powered on, you have to restart by powering it off and on again. After turning the power on, you have one minute to press 5 consecutive times the button/switch connected to either input (SW1/SW2), you have to hear the Relay trigger itself. After the trigger sound, Shelly should return to AP Mode. If you have physical access to the device, you can press and hold the Reset button for 10 second, which is placed on the back of the device. Shelly should return to AP Mode. If not, please repeat or contact our customer support at: support@Shelly.cloud

Step 2

Choose "Add Device".

In order to add more Devices later, use the app menu at the top right corner of the main screen and click "Add Device". Type the name (SSID) and password for the WiFi network, to which you want to add the Device.



Step 3

If using iOS: you will see the following screen:

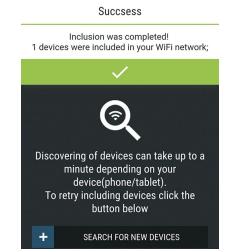


Press the home button of your iPhone/iPad/iPod. Open Settings > WiFi and connect to the WiFi network created by Shelly, e.g. **shellyswitch25-35FA58**.

If using Android: your phone/tablet will automatically scan and include all new Shelly Devices in the WiFi network that you are connected to.



Upon successful Device Inclusion to the WiFi network you will see the following pop-up:



Step 4:

Approximately 30 seconds after discovery of any new Devices on the local WiFi network, a list will be displayed by default in the "Discovered Devices" room.



Step 5:

Enter Discovered Devices and choose the Device you want to include in your account.



Step 6:

Enter a name for the Device (in the Device Name field). Choose a Room, in which the Device has to be positioned. You can choose an icon or add a picture to make it easier to recognize. Press "Save Device".

