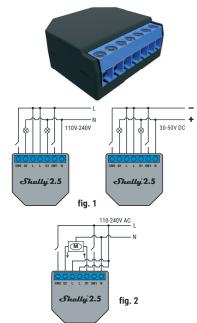
Shelly 2.5

Smart WIFI Relay Switch **USER GUIDE** WARRANTY & WARRANTY TERMS



LEGEND

N - Neutral input (110-230V AC); + Positive input (30-50V DC) L - Line input (110-230V AC); - Negative input (30-50V DC) 01 - Output 1; 02 - Output 2;

SW1 - Switch 1 (input controlling 01) SW2 - Switch 2 (input controlling 02)

The Shelly® Dual WiFi Relay Switch by Allterco Robotics is

intended to be mounted into a standard in-wall console, be hind 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 30-50V DC Max load per channel: 10A/230V. 50/60Hz Complies with EU standards: RE Directive 2014/53/EU • LVD 2014/35/EU • FMC 2004/108/WF • RoHS2 2011/65/UE Working temperature - 20°C in 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 the Device. Keep the Devices for remote control of Shelly (mobile phones, tablets, PCs) away from children.

Introduction to Shelly®

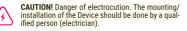
Shelly® is a family of innovative Devices, which allow remote control of electric appli-ances through mobile phone, PC or home automation system. Shelly® uses WiFi to connect to the devices controlling it. They can be in the same WiFi net-work or they can use remote access (through the Internet). Shelly[®] 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

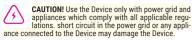


CAUTION! Danger of electrocution. Even when the Device is turned off, it is possible to have voltage across its clamps. Every change in the connection of the clamps has to be done after ensuring all local power is powered off/disconnected

> 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



RECOMMENDATION: The Device may be connected to and may control electric circuits and appli-ances 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 suites 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 restric-tors (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/Assista



MOBILE APPLICATION FOR MANAGMENT 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.



Shelly Cloud allows remote management and nonitoring of Shelly WiFi relays





GET Reviews



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





Shelly Cloud gives you opportunity to create scenes for auto-matic 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 shelly-switch25-35FA58 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 physicall access to the device, you can press and hold the Reset button for 10 sec-ond, 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: sup

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:





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





Step 7: To enable connection to the Shelly Cloud service for remote control and monitoring of the Device, press "YES" on the following pop-up



Connected to cloud!

Device successfully connected to cloud!



Shelly Devices Settings

After your Shelly device is included in the app, you can control it, change its settings and automate the way it works. To switch the Device on and off, use the respective Power button To enter at the details menu of the respective Device, simply click on it's name. From the details menu you may control the Device, as well as edit its appearance and settings



Timer

To manage the power supply automatically, you may use: Auto OFF: After turning on, the power supply will automati

cally shutdown after a predefined time (in seconds). A value of 0 will cancel the timer.

Auto ON: After turning off, the power supply will be automat-ically turned on after a predefined time (in seconds). A value of 0 will cancel the time

Weekly Schedule

Shelly may turn on/off automatically at a predefined time

Sunrise/Sunset

△ This function requires an Internet connection. Shelly receives actual information about the time of sunrise and sunset in your area. Shelly may turn on or off automati cally at sunrise/sunset, or at a specified time before or after sunrise/sunset.

Internet/Security WiFi Mode - Client: Allows the device to connect to an available WiFi network. After typing the details in the respective fields, press Connect.

WiFi Mode - Acess Point: Configure Shelly to create a Wi-Fi Access point. After typing the details in the respective fields, nress Create Access Point

Cloud: Enable or Disable connection to the Cloud service. Restrict Login: Restrict the web interface of Shely with a Username and Password. After typing the details in the re-spective fields, press Restrict Shelly.

Safety

Max Power Protection: Configure Shelly to turn off when a defined power consumption is reached. Range: 1-2300W. After typing the desired power consumption, press Save.

Settings **Power On Default Mode**

This sets the default output state when Shelly is powered. ON: Configure Shelly to turn ON, when it has power. OFF: Configure Shelly to turn OFF, when it has power Restore Last Mode: Configure Shelly to return to last state it was in, when it has power.

Firmware Update

Update the firmware of Shelly, when a new version is released

Time Zone and Geo-location

Enable or Disable the automatic detection of Time Zone and Geo-location

Factory Reset

Return Shelly to its factory default settings. **Device Information**

Here you can see the Device ID - Unique ID of Shelly
 Device IP - The IP of Shelly in your Wi-Fi network Edit Device

From here you can edit: Device Name Device Room

 Device Picture When you are done, press Save Device.

Additional settings in Roller Shutter mode

Power On Default State

- · Open: When powered on, by default, the motor will be in OPEN state
- Close: When powered on, by default, the motor will be in CLOSE state
- Stop: When powered on, by default, the motor will not change its position

OPEN/CLOSE Working Time

This setting allows you to set automatic halt of the move-ment Open/Close, after a predefined time (in seconds).

Cut Off Power: In Roller Shutter mode you can set automatic halt of movement if the pre-set current draw is exceeded (in Watts). Allowable power can be set up to 1840W.

Input Buttons Mode:

- · Any Button When you press either of the buttons for control the motor, it will go in the next step following the consequence: Open>Stop>Close>Stop>Open> ...
- · Open & Close Buttons Using separate buttons for Open
- Reverse Controls: Allows you to change the Open/Close

Some of the features of the Shelly Cloud mobile application are available at https://my.shelly.cloud/ as well

The Embedded Web Interface

Even without the mobile app, Shelly can be set and controlled through a browser and WiFi connection of a mobile phone, tablet or PC

ABBREVIATIONS USED:

Step 1

tomer support at: sup

with your phone, tablet or PC

load the web interface of Shelly

Step 2

Step 3

Shelly-ID - the unique name of the Device. It consists of 6 or more characters. It may include numbers and letters, for example 35FA58.

SSID - the name of the WiFi network, created by the Device, for example Shellyswitch-35FA58.

Access Point (AP) - the mode in which the Device creates its own WiFi connection point with the respective name (SSID) Client Mode (CM) - the mode in which the Device is connect-

ed to another WiFi network. Installation/Initial inclusion

WARNING: 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 physicall access to the

device, you can press and hold the Reset button for 10 sec-

ond, which is placed on the back of the device. Shelly should

return to AP Mode. If not, please repeat or contact our cus-

When Shelly has created an own WiFi network (own AP), with

name (SSID) such as Shellyswitch-35FA58. Connect to it

Type 192.168.33.1 into the address field of your browser to

Channel 1/Channel 2 Screen

leased

In this screen you can control, monitor and change the set-Install Shelly to the power grid following the schemes de-scribed above and place it into the console. After turning the tings for turning the power on and off. You can also see the current status (electrical load/ power consumption) of the power on Shelly will create its own WiFi network (AP). connected appliance to Shelly, Buttons Settings, On and OFF

Device Reboot: Reboots the Device.



General - Home Page

#0W

#0W

 \odot

Safety

Max Power: You can limit the maximum power the socket will supply. If the pre-set current draw is exceeded, Shelly will turn

the socket off. Allowable power can be set between 1 to 2300W

Internet/Security WiFi Mode - Client: Allows the device to connect to an avail-

able WiFi network. After typing the details in the respective

WiFi Mode - Acess Point: Configure Shelly to create a Wi-Fi

Access point. After typing the details in the respective fields, press Create Access Point.

Restrict Login: Restrict the web interface of Shely with a

Username and Password. After typing the details in the re-spective fields, press Restrict Shelly.

Advanced - Developer Settings: Here you can change the

restart by powering it off and on again. After turning the pow-er 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 physicall 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 ou

Settings

Enable or Disable the automatic detection of Time Zone and

Update the firmware of Shelly, when a new version is re-

Factory Reset: Return Shelly to its factory default settings.

Managing in Relay Mode

Here you can set the device type of Shelly: • Relay - Control over 2 independent circuits

Roller Shutter - Control over a bi-directional motor

WARNING: 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

Cloud: Enable or Disable connection to the Cloud service

Time:

C

С

(i)

Setting

This is the home page of the embedded web interface

Here you will see information about:

Shally 2.5 🔺 🖬

Channel 1 🔅

Channel 2 🙆

. press Connect

action execution

Via MQTT

· Via CoAP (ColOT)

customer support at: su

Time Zone and Geo-location

Device Type

Geo-location

Firmware Update

Current electrical consumption

Current state (on/off)

Connection to Cloud

Power Button

Present time

Settings

Timer

To manage the power supply automatically, you may use: Auto OFF: After turning on, the power supply will automati-cally shutdown after a predefined time (in seconds). A value of 0 will cancel the automatic shutdowr

Auto ON: After turning off, the power supply will be automat-ically turned on after a predefined time (in seconds). A value of 0 will cancel the automatic power-or

Weekly Schedule

This function requires an Internet connection. Shelly may turn on/off automatically at a predefined time.

Sunrise/Sunset

△ This function requires an Internet connection. Shelly receives actual information about the time of sunrise and sunset in your area. Shelly may turn on or off automati cally at sunrise/sunset, or at a specified time before or after sunrise/sunset Settings

Power On Default Mode

This sets the default output state when Shelly is powered ON: Configure Shelly to turn ON, when it has power. OFF: Configure Shelly to turn OFF, when it has power Restore Last Mode: Configure Shelly to return to last state it was in, when it has power SWITCH: Configure Shelly to operate accordingly ti tge state of the switch (button).

Manual Switch Type

Momentary – When using a button.
 Toggle Switch – When using a switch

Edge Switch – Shelly will change its state on every push.

Managing in Roller Shutter Mode

Roller Screen

In this screen you can control, monitor and change the set tings for opening and closing the connected motor to Shelly.

To open the connected motor press "OPEN" To close the connected motor press "CLOSE" To stop the connected motor press "STOP".



Weekly Schedule

△ This function requires an Internet connection. Shelly may turn on/off automatically at a predefined time.

Sunrise/Sunset A This function requires an Internet connection.

Shelly receives actual information about the time of sunrise and sunset in your area. Shelly may turn on or off automati cally at sunrisé/sunset, or at a specified time before or after sunrise/sunset.

Internet/Security

WiFi Mode - Client: Allows the device to connect to an available WiFi network. After typing the details in the respective fields, press Connect,

WiFi Mode - Acess Point: Configure Shelly to create a Wi-Fi Access point. After typing the details in the respective fields, press Create Access Point

Cloud: Enable or Disable connection to the Cloud service. Restrict Login: Restrict the web interface of Shely with a

Username and Password. After typing the details in the respective fields, press Restrict Shelly.

Advanced - Developer Settings: Here you can change the Via CoAP (CoIOT)

Via MOTT

WARNING: 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 (SWI/SW2). You have to hear the Relay trigger itself. After the trigger sound, Shelly should return to AP Mode. If you have physicall 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: sup

Safety

Max Power: You can limit the maximum power the socket will supply. If the pre-set current draw is exceeded, Shelly will turn the socket off. Allowable power can be set between 1 to 2300W.

Obstacle Detection

From here you can set obstacle detection: • Disabled - this will disable obstacle detection

 While Opening While Closing

While Moving

Obstacle Detection Action

You can select the action that is executed on obstacle detection

Stop Reverse

Obstacle Detection Treshold

Device Type

you choose.

You can set the power treshold on obstacle detection (in Watts).

Settinas

Each Shelly can be configured individually. This lets you per-

sonalize each Device in a unique manner, or consistently, as

This sets the Devices' default state when powered from the

OPEN: By default when the Device is powered and the con-

CLOSE: By default when the Device is powered and the con-

STOP: By default when the Device is powered and the con-

This setting allows you to set automatic halt of the movement Open/Close, after a predefined time (in seconds).

· One Button - On press of the button for control of the mo-

· Open & Close Buttons - Using separate buttons for Open

Enable or Disable the automatic detection of Time Zone and

Update the firmware of Shelly, when a new version is re-

Factory Reset: Return Shelly to its factory default settings.

Shelly allows control via HTTP from any other Device, home

Changes in the contact data are published by the Manufac-

The User is obliged to stay informed for any amendments of

these warranty terms before exercising his/her rights against

All rights to trademarks She® and Shelly® , and other intel-

lectual rights associated with this Device belong to Allterco

For more information about the REST control protocol,

please visit: www.shelly.cloud or send a request to developers@shelly.cloud

tor, it will go in the next step following the consequence:

Shelly Management Settings

Power On Parameters

Obstacle Detection Delay You can set the delay for obstacle detection activation (in seconds). When you are done, press Save Device.

Here you can set the device type of Shelly:

nected motor to it will be in OPEN state

nected motor to it will be in CLOSE state.

nected motor to it will not change its state.

OPEN/CLOSE Working Time

Open>Stop>Close>Stop>Open

Momentary – When using a button.
Toggle – When using a switch.

Time Zone and Geo-location

Device Reboot: Reboots the Device.

automation controller, mobile app or server.

Manufacturer: Allterco Robotics EOOD

Address: Sofia, 1407, 103 Cherni Vrah Blvd. Tel.: +359 2 988 7435

The Declaration of Conformity is available at:

turer at the official website of the Device:

Allows you to reverse the Open/Close movement.

Input Buttons Mode

and Close.

Button Type

Reverse Contro

Geo-location

leased.

Firmware Update

Additional Features

E-mail: support@shel http://www.Shelly.clo

http://www.shelly.cloud

the Manufacturer.

Robotics FOOD

Reláy - Control over 2 indepéndent circúits

Roller Shutter - Control over a bi-directional motor

FCC:

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -- Reorient or relocate the receiving antenna.
- -- Increase the separation between the equipment and receiver.
- -- Connect the equipment into an outlet on a circuit different
 - from that to which the receiver is connected.
- -- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.