SONOFF DUALR3 Dual Relay Two Way Power Metering Smart Switch Controller User Manual

2-Gang Wi-Fi Smart Switch
DIY DUALR3
User manual V1.0

Contents [hide]

Operating Instruction

Power off
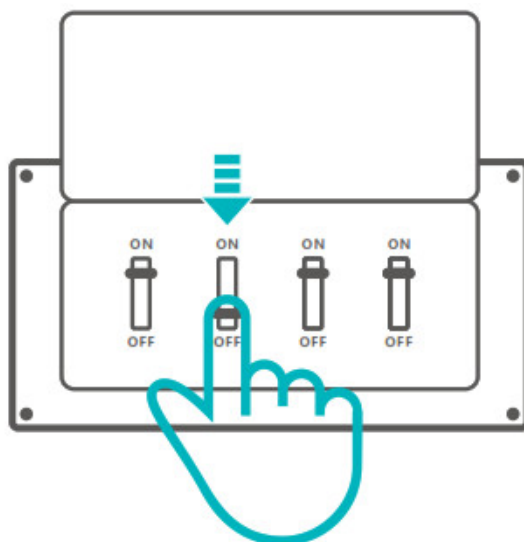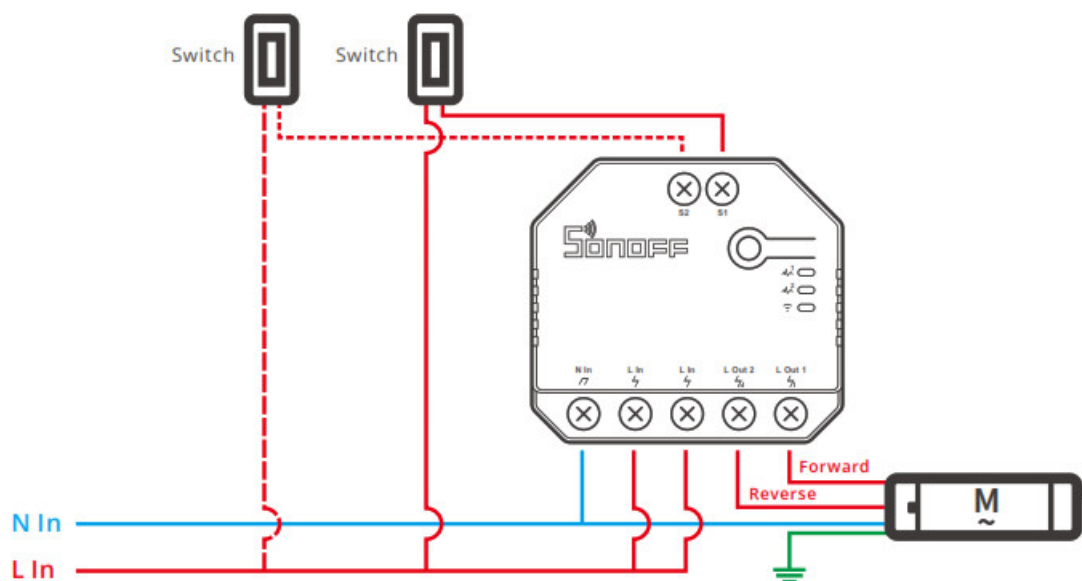
⚠ To avoid electric shocks, please consult the dealer or a qualified professional for help when installing and repairing! Please do not touch the switch during use.

Wiring instruction

Motor mode:

1. Momentary switch:

❗ Connect to S1 or S2 for smart control of connected devices; connect to S1 and S2 for two-way smart control.

2. Dual relay momentary switch/3-gang rocker switch:
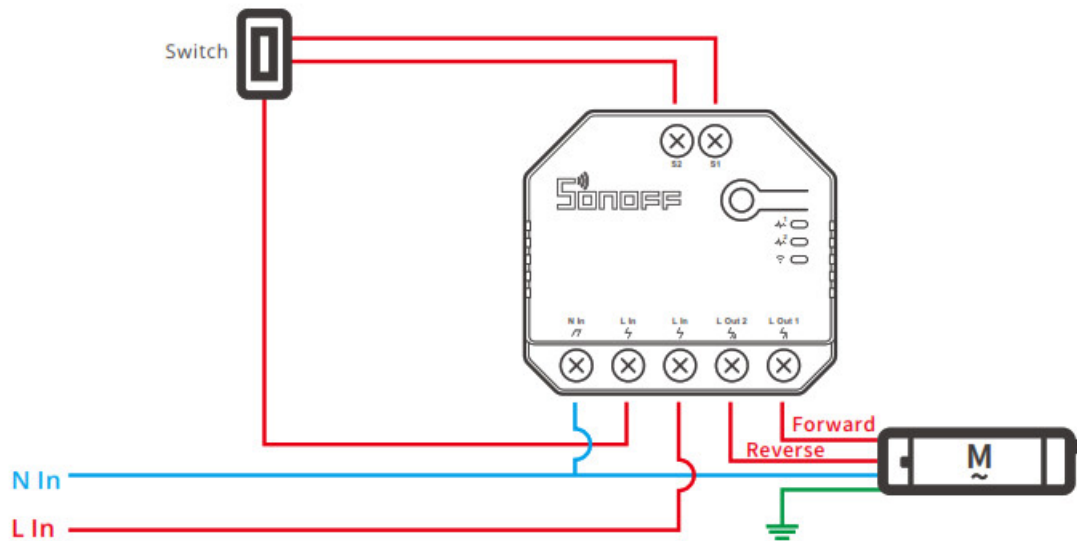
Light fixture wiring instruction

1. To enable dual relay control, S1 and S2 are required to connect the push button switch in the pulse mode or the rocker light switch in the edge mode:

2. Connect SPDT switches in the edge mode to reach double two-way control:
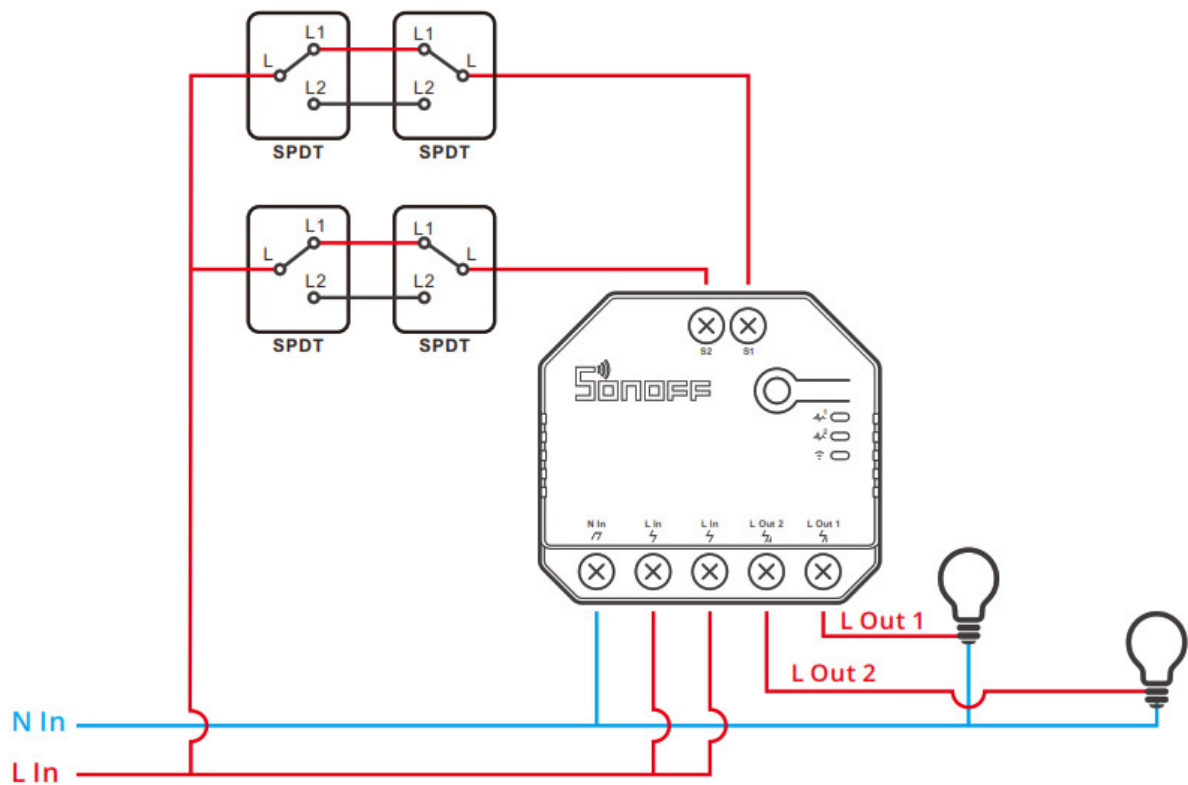
3. Connect dry contact sensors in the following mode:
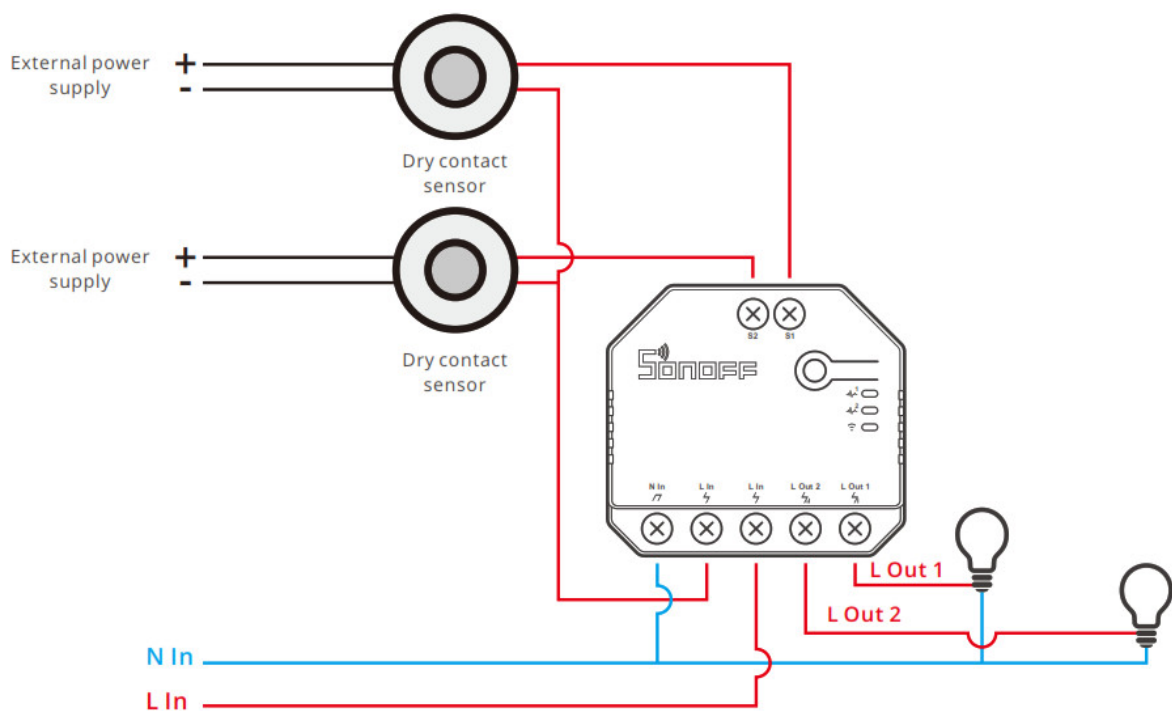
(!) Make sure the neutral wire and live wire connection are correct.
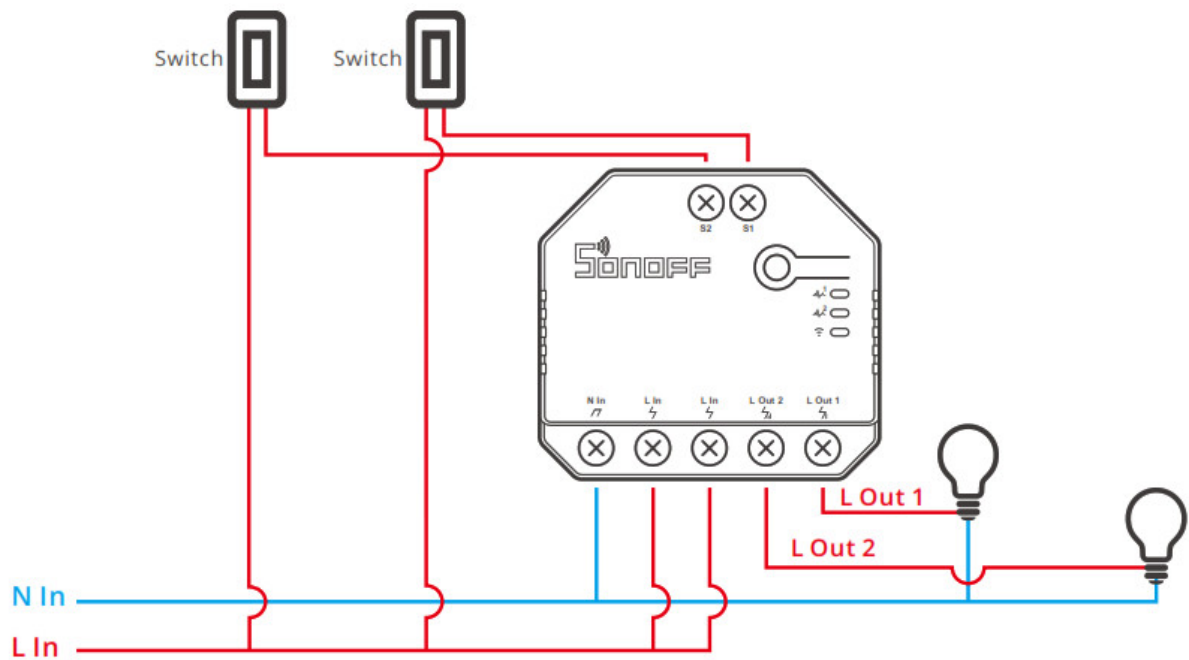
(!) The device still works normally if no physical light switch is connected to S1/S2.

(!) If S1/S2 is connected to a physical light switch, the corresponding working mode is required in the eWeLink APP to select for normal use.

Download the eWeLink APP

Power on
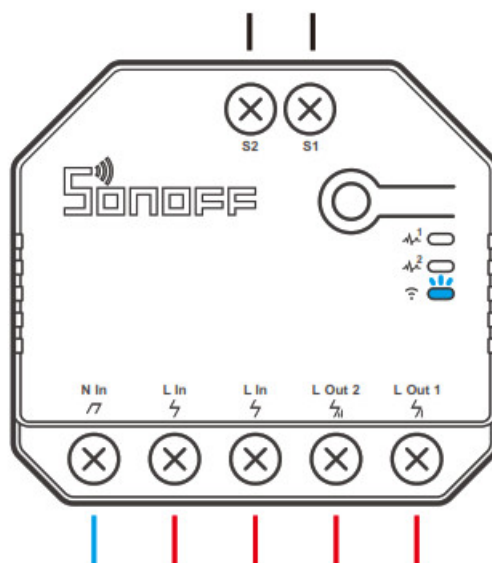
After powering on, the device will enter the Bluetooth pairing mode during the first use. The Wi-Fi LED indicator changes in a cycle of two short and one long flash and release.

 The device will exit the Bluetooth pairing mode if not paired within 3mins. If you want to enter this mode, please long press the manual button for about 5s until the Wi-Fi LED indicator changes in a cycle of two short and one long flash and release.

Add the device

Tap "+" and select "Bluetooth pairing", then operate following the prompt on the APP.

Specifications

Model	DUALR3
Input	100-240V AC 50/60Hz 15A Max
Output	100-240V AC 50/60Hz
Resistive Load	2200W/10A/Gang 3300W/15A/Total
Motor Load	10-240W/1A
Wi-Fi	IEEE 802.11 b/g/n 2.4GHz
Operating systems	Android & iOS
Number of gangs	2Gang
Working temperature	-10℃~40℃
Material	PC V0
Dimension	54x49x24mm

Product Introduction
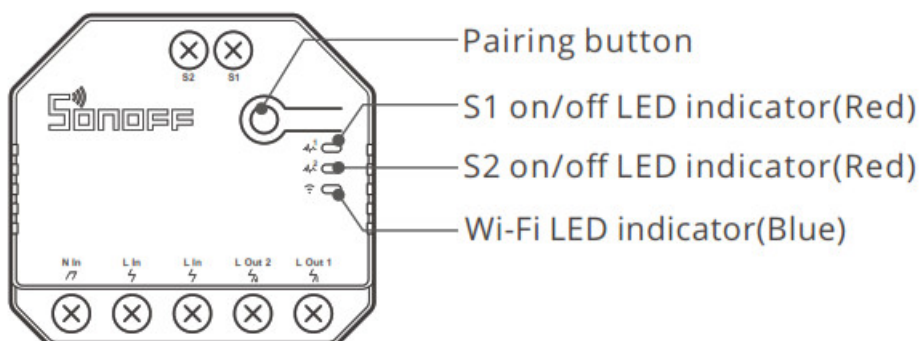
ⓘ The device's weight is less than 1 kg. An installation height of less than 2 m is recommended.

Wi-Fi LED indicator status instruction

LED indicator status	Status instruction
Flashes (one long and two short)	Bluetooth Pairing Mode
Keeps on	Device is connected successfully
Flashes quickly	Compatible Pairing Mode
Flashes quickly once	Unable to discover the router
Flashes quickly twice	Connect to the router but fail to connect to the server
Flashes quickly three times	Upgrading

Working Mode

After pairing, select the corresponding model from the switch, motor, and meter modes according to the connected device. Please check the detailed instruction for working modes on the eWeLink app.

Features

This device is a Wi-Fi smart switch with power monitoring that allows you to remotely turn on/off the device, schedule it on/off, or share it with your family to control it together.

Remote Control   Single/Countdown Timing   Share Control   Smart Scene   Sync Status

Power Monitoring   Over-load Protection   Inching Mode   Power-on State   LAN Control

Switch Network

If you need to change the network, long-press the pairing button for 5s until the Wi-Fi LED indicator changes in a cycle of two short and one long flash and release, then the device enters Bluetooth pairing mode and you can pair again.
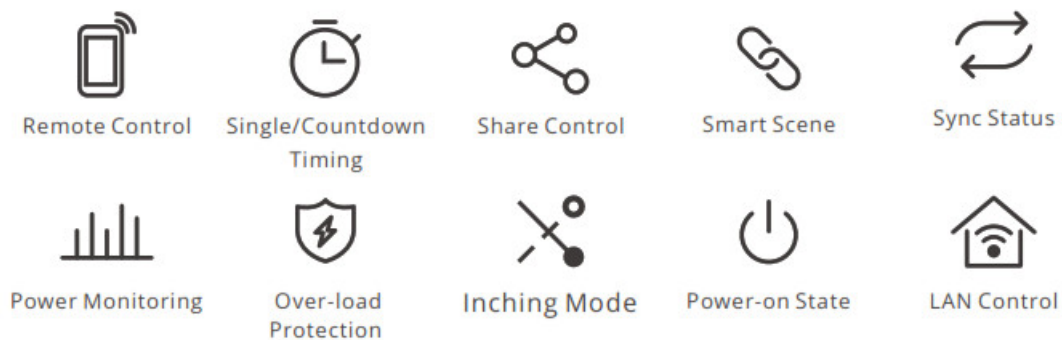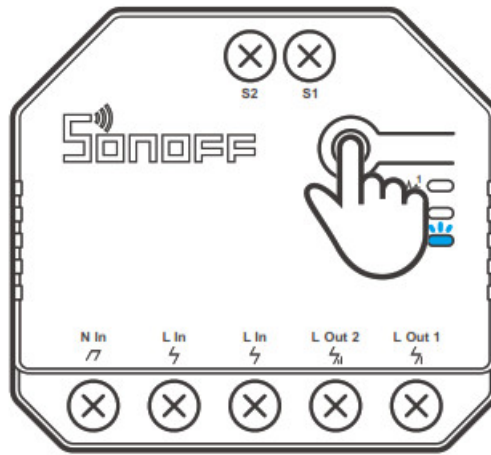
Factory Reset

Deleting the device on the eWeLink app indicates you restore it to the factory setting.

Common Problems

Q: Why does my device stay "Offline"?
A: The newly added device needs 1 – 2mins to connect to Wi-Fi and network. If it stays offline for a long time, please judge these problems by the blue Wi-Fi indicator status:

1. The blue Wi-Fi indicator quickly flashes once per 2 seconds, which means that the switch failed to connect your Wi-Fi:

   ① Maybe you have entered the wrong Wi-Fi password.

   ② Maybe there's too much distance between the switch your router or the environment causes interference, consider getting close to the router. If failed, please add it again.

   ③ The 5G Wi-Fi network is not supported and only supports the 2.4GHz wireless network.

   ④ Maybe the MAC address filtering is open. Please turn it off.

   If none of the above methods solved the problem, you can open the mobile data network on your phone to create a Wi-Fi hotspot, then add the device again.

2. Blue indicator quickly flashes twice per 2 seconds, which means your device has connected to Wi-Fi but failed to connect to the server.

   Ensure a steady enough network. If double flash occurs frequently, which means you access an unsteady network, not a product problem. If the network is normal, try to turn off the power to restart the switch.

FCC Warning

Changes or modifications not expressly approved by the party responsible for compliance could avoid the user's authority to operate the equipment.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
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.

For FCC:	For CE RED:
Frequency range	Frequency range
Wi-Fi: 2412-2462MHz	Wi-Fi: 2412-2472MHz
BT: 2402-2480MHz	BT: 2402-2480MHz
Maximum RF output power of the product	Maximum RF output power of the product
Wi-Fi: 17.85dBm	Wi-Fi: 18.36dBm
BT: -1.90dBm	BT: 3.93dBm (Inclusion antenna gain)

RF exposure

RF exposure information: The Maximum Permissible Exposure (MPE) level is calculated based on a distance of d=20 cm between the device and the human body.

To maintain compliance with the RF exposure requirement, a separation distance of 20 cm between the device and the human should be maintained.

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MADE IN CHINA

Documents / Resources

SONOFF DUALR3 Dual Relay Two Way Power Metering Smart Switch Controller [pdf] User Manual
DUALR3, Dual Relay Two Way Power Metering Smart Switch Controller