

SONOFF MINIR2

SONOFF Mini R2 Smart WiFi Wireless Light Switch User Manual

Model: MINIR2

Brand: SONOFF

1. INTRODUCTION



The SONOFF Mini R2 is a compact and versatile 10A Smart WiFi Wireless Light Switch designed for DIY home automation solutions. This universal module allows you to transform traditional switches into smart devices, enabling remote control and automation of your lighting and other electrical appliances. It integrates seamlessly with popular voice assistants like Amazon Alexa and Google Home, offering convenient hands-free operation without the need for a separate hub.

Its small size allows for easy installation within standard wall boxes, making it an ideal choice for upgrading your home's electrical system to a smart one.

2. KEY FEATURES

SONOFF MINIR2

Wi-Fi DIY Smart Switch



An overview of the SONOFF MINIR2's key features, including app control, time scheduling, voice control, LAN control, power-on state settings, DIY mode, and its small form factor.

- **Versatile Control:** Operate via voice commands, mobile app, or traditional touch switches for ultimate convenience.
- **Durable Design:** Features an IP65 rating for dust and water resistance, making it suitable for various environments.
- **Easy Installation:** Wireless design with no hub required, designed to fit standard wall boxes for straightforward setup.
- **Energy Efficient:** Equipped with a 10A capacity and low power consumption, suitable for a wide range of appliances.

3. PRODUCT SPECIFICATIONS

Specification	Value
Model Number	MINIR2
Product Dimensions	1.68 x 1.68 x 0.79 inches
Item Weight	7.37 ounces
Operation Mode	Manual
Current Rating	10 Amps
Contact Type	Normally Open
Connector Type	Wireless
Terminal	No Terminals
Circuit Type	2-way
Actuator Type	Rocker
Contact Material	Copper
Manufacturer	SONOFF
First Available Date	November 23, 2020

4. SAFETY INFORMATION

Considerate Design for Your Safety

The S1 and S2 interface is highlighted on the different color to give you a clear tip that they can not connect the strong current for security reasons.



This image compares the design of the original SONOFF MINI and the MINIR2, emphasizing the MINIR2's gray S1 and S2 terminals, which are designed for weak current connections to enhance safety.

- Always ensure the power supply is disconnected before performing any installation or maintenance.
- Installation should be performed by a qualified electrician or in accordance with local electrical codes.
- Do not exceed the maximum load current of 10 Amps.
- Ensure proper insulation and secure wiring connections to prevent short circuits.
- The S1 and S2 terminals are designed for weak current connections only. Do not connect strong current to these terminals.

5. INSTALLATION GUIDE

5.1 Wiring Diagram

Work with An External Switch

Support to connect dry contact sensors and various types of external switches, such as SPDT switches and NC/NO push button switches.



Detailed wiring diagram illustrating how to connect the SONOFF MINIR2 smart switch to an electrical circuit, showing connections for Live In (L_{in}), Neutral In (N_{in}), Live Out (L_{out}), Neutral Out (N_{out}), and external switch terminals S1 and S2.

Follow the diagram carefully to connect the Live (L) and Neutral (N) wires from your power source to the L_{in} and N_{in} terminals respectively. Connect your appliance or light fixture to the L_{out} and N_{out} terminals. For external switch control, connect your traditional wall switch to the S1 and S2 terminals.

5.2 App Setup (eWeLink App)

More Options in External Switches

Pulse mode

Falling edge triggers the relay to reverse in level jumping. Ideal for the push button switch which is triggered once after being presses and automatically bounces back.



*External switches are not limited to door control switches.



This image highlights the scheduling features of the SONOFF MINIR2, including options for setting timers, countdowns, and loop timers to automatically switch devices on or off, optimizing power consumption.

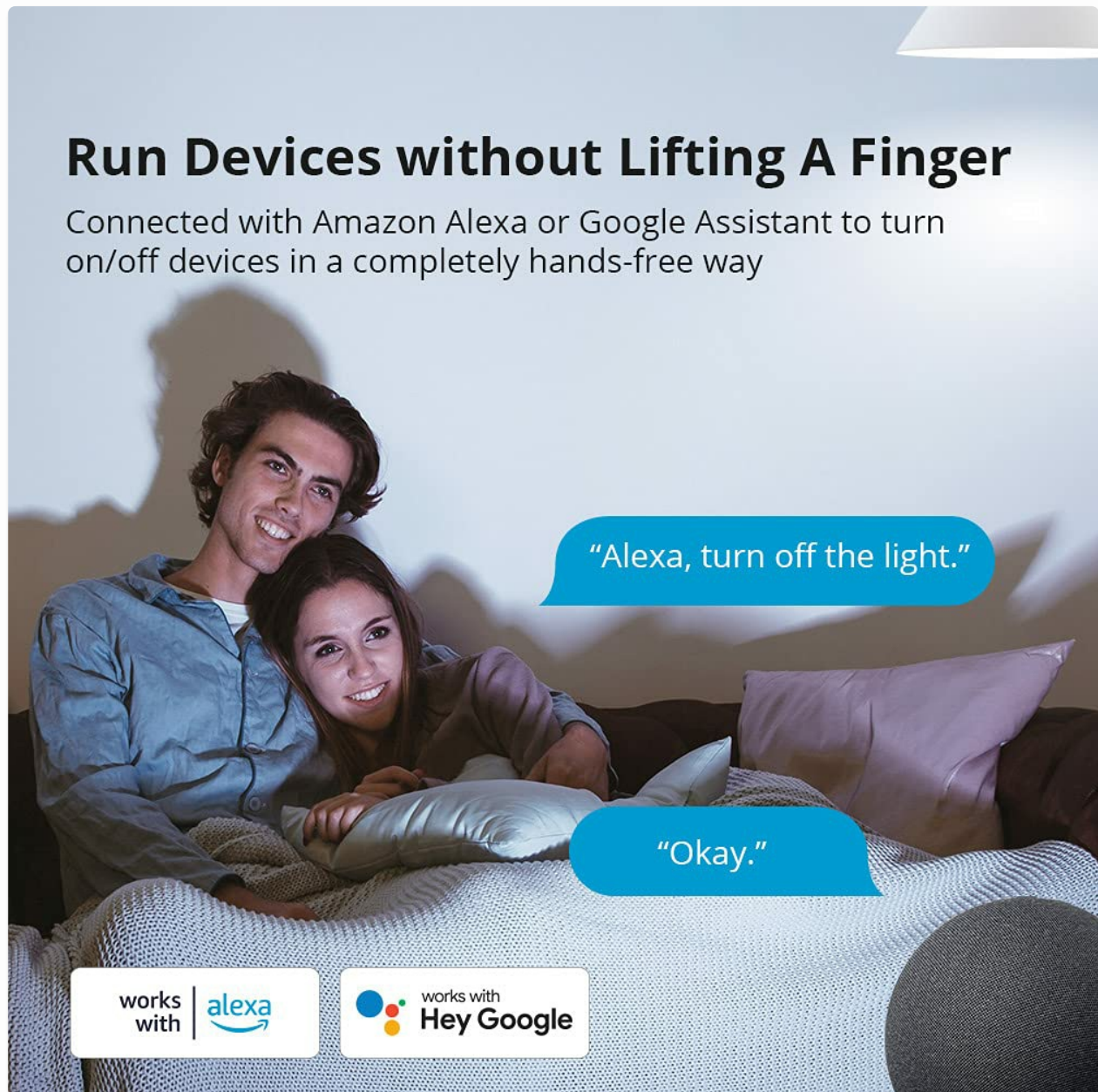
1. Download the eWeLink app from the App Store (iOS) or Google Play Store (Android).
2. Register a new account or log in if you already have one.
3. Power on the SONOFF Mini R2. The Wi-Fi LED indicator will flash rapidly (two short, one long flash) indicating pairing mode. If not, press and hold the pairing button for 5 seconds until it flashes.
4. In the eWeLink app, tap the '+' icon at the bottom of the screen to add a device.
5. Select 'Quick Pairing' and follow the on-screen instructions to connect the device to your 2.4GHz Wi-Fi network.
6. Once connected, you can rename the device and assign it to a room.

6. OPERATION

6.1 App Control

After successful pairing, you can control the SONOFF Mini R2 directly from the eWeLink app. You can turn the connected device on/off, set schedules, timers, and create smart scenes.

6.2 Voice Control (Amazon Alexa & Google Home)

A photograph of a young man and woman lying in bed, smiling at the camera. The room is dimly lit, with a lamp visible in the upper right corner. Overlaid on the image are two blue speech bubbles. The first bubble, on the right, contains the text "Alexa, turn off the light." The second bubble, below and to the left of the first, contains the text "Okay." At the bottom left of the image, there are two logos: "works with alexa" and "works with Hey Google".

Run Devices without Lifting A Finger

Connected with Amazon Alexa or Google Assistant to turn on/off devices in a completely hands-free way

"Alexa, turn off the light."

"Okay."

works with alexa

works with Hey Google

A visual representation of the SONOFF MINIR2's voice control capabilities, showing a couple interacting with Amazon Alexa and Google Assistant to manage their smart home devices hands-free.

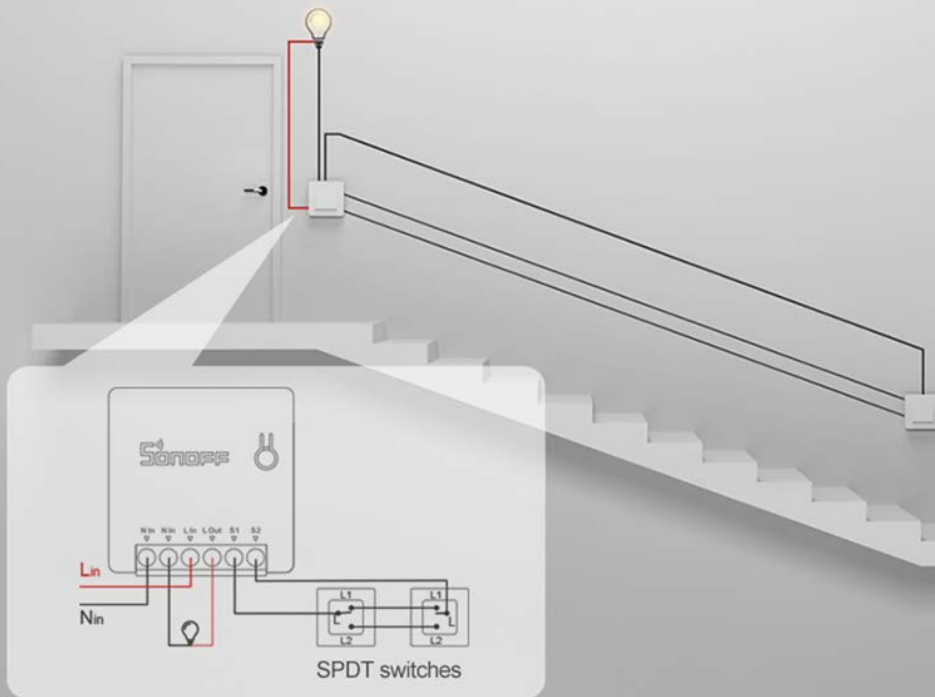
To enable voice control, link your eWeLink account with Amazon Alexa or Google Home through their respective apps. Once linked, you can use voice commands such as:

- "Alexa, turn on [device name]."
- "Hey Google, turn off [device name]."

6.3 External Switch Control

Edge mode

Both rising and falling edge can trigger the relay state change. Can be used to connect a SPDT switch to reach two-way control of a device.



*External switches are not limited to two-way control switches.

This image demonstrates the compatibility of the SONOFF MINIR2 with different types of external wall switches, including SPDT switches and NC/NO push-button switches, allowing for traditional manual control.

The Mini R2 supports various external switch types, including SPDT switches and NC/NO push-button switches. This allows you to retain your traditional wall switch functionality while adding smart control.

Pulse Mode

On/Off Time, It's up to You

Arrange the start and stop schedule for devices to have them automatically switch on/off, reducing needless power consumption



Timer



Countdown



Loop timer



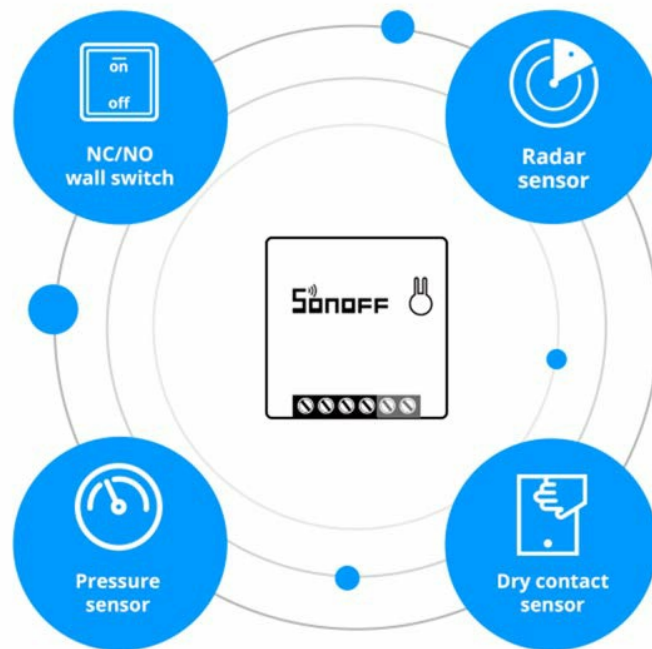
An illustration of the pulse mode functionality, where a falling edge trigger reverses the relay level. This mode is ideal for push-button switches that automatically bounce back, such as those used with door control.

Edge Mode

Following mode

Connect your light to a wall switch with "ON&OFF mark" but sometimes find the state of the light does not correspond with the ON&OFF direction of the wall switch? The following mode is used to make the light follow the ON/OFF direction of the wall switch. Can also connect dry contact sensors.

*The default and reverse mode are used for both NC and NO wall switches to make the load state follow the ON&OFF direction of the wall switch.



This diagram explains the edge mode, where both rising and falling edges can trigger a relay state change. It shows how to connect the MINIR2 with SPDT switches to achieve two-way control of a lighting fixture.

6.4 Following Mode



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MINIR2
Wi-Fi Smart Switch
with DIY Mode

This diagram explains the 'Following mode' feature, where the SONOFF MINIR2 can be connected to various sensors like NC/NO wall switches, radar sensors, pressure sensors, and dry contact sensors, allowing the light state to follow the sensor's input.

In 'Following mode', the device's state can be configured to follow the ON/OFF direction of a connected wall switch or other dry contact sensors (e.g., radar, pressure sensors). This ensures synchronization between the

physical switch and the smart module.

7. MAINTENANCE

- Keep the device clean and free from dust. Use a dry cloth for cleaning.
- Regularly check for firmware updates through the eWeLink app to ensure optimal performance and security.
- Avoid exposing the device to extreme temperatures or humidity beyond its specified operating conditions.

8. TROUBLESHOOTING

- **Device not pairing:** Ensure your Wi-Fi network is 2.4GHz. Check if the Wi-Fi indicator is flashing correctly. Try resetting the device by pressing the pairing button for 5 seconds.
- **Device offline in app:** Check your Wi-Fi signal strength. Ensure your router is working correctly. Restart the device and your router.
- **Voice control not working:** Verify that your eWeLink account is correctly linked to Amazon Alexa or Google Home. Ensure the device name is recognized by the voice assistant.
- **External switch not responding:** Check the wiring to the S1 and S2 terminals. Ensure the correct external switch mode (Pulse or Edge) is selected in the eWeLink app if applicable.
- **Device not turning on/off:** Check the main power supply. Verify the wiring connections (L_{in} , N_{in} , L_{out} , N_{out}). Ensure the load does not exceed 10 Amps.

9. WARRANTY AND SUPPORT

SONOFF products typically come with a limited warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official SONOFF website.

For technical support, troubleshooting assistance, or warranty claims, please contact SONOFF customer service through their official channels. You can usually find contact information on the product packaging or the SONOFF website.

