

SONOFF MINIR4M

SONOFF MINIR4M 10A Matter Smart Switch Instruction Manual

Model: MINIR4M

1. INTRODUCTION

The SONOFF MINIR4M is a compact, Matter-certified smart switch designed to integrate traditional switches into a smart home ecosystem. It enables remote control, voice control, and automation of lighting and other electronic devices. This manual provides detailed instructions for the safe installation, setup, and operation of your MINIR4M device.

2. SAFETY INFORMATION

Before installation and use, please read and follow all safety instructions carefully to prevent electric shock, fire, or other hazards. Improper installation or operation can be dangerous.

- **Professional Installation Recommended:** Electrical work should be performed by a qualified electrician.
- **Power Off Before Installation:** Always ensure the main power supply is disconnected at the circuit breaker before installing or servicing the device.
- **Neutral Wire Required:** The MINIR4M requires a neutral wire for operation. Verify its presence in your electrical box before proceeding.
- **Operating Voltage:** This device is designed for 120 Volts. Ensure your electrical system matches this requirement.
- **Current Rating:** Do not exceed the maximum current rating of 10 Amps.
- **Environmental Conditions:** Install in a dry environment, away from water and excessive humidity.
- **Certifications:** The MINIR4M has obtained TÜV, CE, and FCC certifications, ensuring enhanced safety and reliability.
- **Flame Retardant Enclosure:** The device features a V-0 grade flame retardant enclosure for added safety.

3. PRODUCT OVERVIEW

The SONOFF MINIR4M is a compact smart switch module with the following key features:

- **Matter Compatible:** Integrates with Matter-enabled platforms like Alexa, Apple Home, Google Home, and SmartThings for unified control.
- **Mini Size:** Designed to fit into various mounting boxes, including standard 86/EU types. It is 40% smaller than MINIR2 and 60% smaller than MINIR3.
- **External Switch Control:** Supports connection to momentary switches, door exit switches, SPDT switches, latching switches, and dry contact sensors.
- **Detach Relay Mode:** Allows the external switch state and relay state to be separated, preventing physical switch operation from affecting the relay state.
- **App & Voice Control:** Control devices via the eWeLink app or voice commands through compatible smart assistants.
- **Upgraded ESP32 Chip:** Ensures reliable performance.
- **Schedule & Smart Scene:** Automate devices with schedules and integrate into smart scenes with other sensors.



Image: The SONOFF MINIR4M smart switch module shown with its retail packaging.

SONOFF's First Matter Device

SONOFF MINI Extreme Wi-Fi Smart Switch



Image: The compact size of the SONOFF MINIR4M is demonstrated by being held in a hand, highlighting its Matter compatibility and integration with Alexa, Apple Home, Google Home, and SmartThings.



Image: A visual summary of the SONOFF MINIR4M's key features, including Detach Relay Mode, Matter compatibility, safety certifications (CE, FCC, TÜV), external switch control, compact design, app and voice control, upgraded ESP32 chip, scheduling capabilities, and smart scene integration.

4. SETUP AND INSTALLATION

The MINIR4M offers two primary pairing methods: via the eWeLink App or using the Matter pairing method with compatible smart home apps.

4.1 Wiring Diagram and Physical Installation

Important: Ensure power is disconnected at the circuit breaker before performing any wiring.

1. Identify the Live (L) and Neutral (N) wires in your electrical box.
2. Connect the Live wire from your power source to the "L In" terminal on the MINIR4M.
3. Connect the Neutral wire from your power source to one of the "N" terminals on the MINIR4M.
4. Connect the Neutral wire going to your light fixture or appliance to the other "N" terminal on the MINIR4M.
5. Connect the Live wire going to your light fixture or appliance to the "L Out" terminal on the MINIR4M.

6. For external switch control, connect your physical switch to the "S1" and "S2" terminals. The "S1" terminal is common with "L In".
7. Carefully place the MINIR4M module into the mounting box. Its compact size is designed to fit various standard boxes.

Stronger Compatibility and Interoperability

Matter-certified SONOFF devices can recognize and work with other brands of matter end products, these devices are available on all Matter-enabled platforms. You can integrate them into the apps you want, such as Apple Home, Google Home and Alexa, etc. Controlling all smart devices through one app is no longer a fantasy.



Image: A detailed wiring diagram illustrating how to connect the SONOFF MINIR4M to the main power supply, a light fixture (load), and an external physical switch. It shows terminals for N (Neutral), L Out (Load Live), L In (Input Live), S1, and S2 (External Switch).



Image: This image demonstrates the small form factor of the SONOFF MINIR4M, showing how it fits inside a standard electrical wall box behind a traditional switch, making it suitable for various installations.

Mini than Ever, Adapts to Various Boxes

A brand new product that turns traditional switches into smart switches, automating lights and electronic devices. It's 40% smaller than MINIR2, fits in various mounting boxes, including the smallest European standard ones.



Image: A comparison illustrating the reduced size of the MINIR4M, which is 40% smaller than MINIR2 and 60% smaller than MINIR3, allowing it to adapt to various electrical boxes.

4.2 Device Pairing

After physical installation and restoring power, the device is ready for pairing.

4.2.1 eWeLink App Pairing

1. Download the eWeLink app from your device's app store.
2. Open the eWeLink app and register or log in.
3. Tap the "+" icon to add a new device.
4. Follow the on-screen instructions to put the MINIR4M into pairing mode and complete the setup.

4.2.2 Matter Pairing

For Matter-compatible apps (e.g., Apple Home, Google Home, Alexa, SmartThings):

1. Open your preferred Matter-compatible smart home app.
2. Initiate the "Add Device" or "Add Accessory" process.

3. Scan the Matter QR code located on the MINIR4M device or its packaging.
4. Follow the app's prompts to complete the pairing process.

Easy to Setup and Use

Two pairing methods for you to choose, the first is to add devices through the eWeLink APP. The second is "Matter pairing method", which can be added with Matter-compatible APPs, such as Alexa app, Apple Home app, and Google Home app.

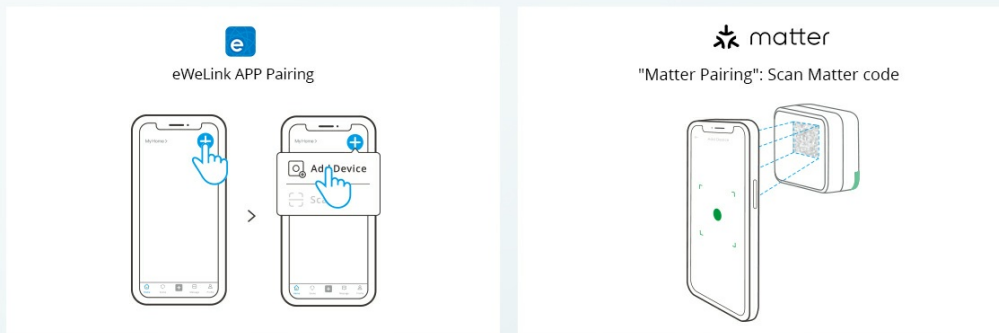


Image: This diagram illustrates the two methods for setting up the MINIR4M: adding devices through the eWeLink app or using the Matter pairing method by scanning a QR code with a Matter-compatible application.

5. OPERATING INSTRUCTIONS

5.1 App Control

Once paired, you can control the MINIR4M through the eWeLink app or your chosen Matter-compatible smart home app. The app allows you to:

- Turn the connected device ON/OFF remotely.
- Set schedules and timers for automatic operation.
- Create smart scenes to automate actions based on other smart devices or conditions.
- View device status and operation logs.

5.2 Voice Control

Integrate the MINIR4M with voice assistants like Alexa, Google Home, or Apple HomeKit (via Matter) to control your devices using voice commands. For example, say "Alexa, turn off the light."

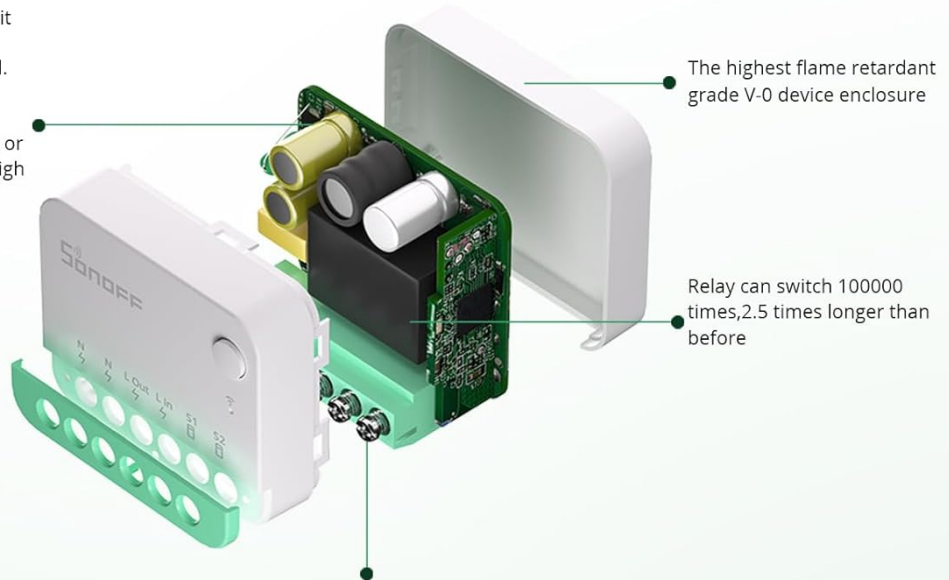
Comprehensive Safety Guarantee

SONOFF always prioritizes safety and designs products in strict accordance with certification requirements. Our products passed CE, FCC, and more stringent TÜV certifications.



Safe Even in Unusual Situations

The product's abnormal short-circuit is simulated and every possible short-circuited component is tested. Ensures the product is safe from electric shock even under fault conditions, that there is no burning or flame, and that no part reaches a high temperature that can cause a fire hazard in the surrounding areas.



The old way of tightening wires with screws could crush or even cut wires when screws were tightened too fast. The new connection port is safer, will not damage the wire easily, and fastens the wires more effectively

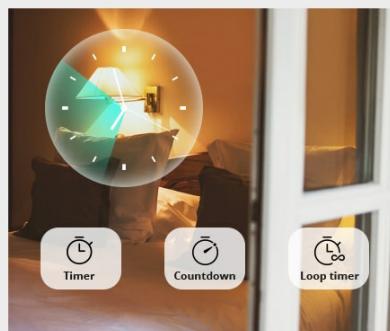


Image: This composite image illustrates various control methods: setting timers for automatic operation, viewing detailed operation logs within the app, and using voice commands with smart assistants like Alexa to control connected devices.

5.3 External Switch Control

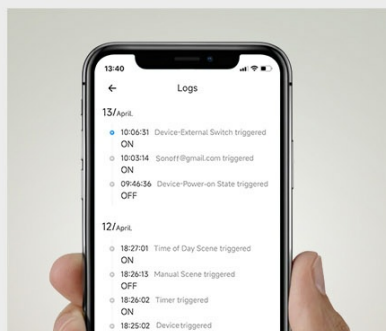
The MINIR4M allows you to retain the functionality of your traditional wall switch while adding smart capabilities. It supports various switch types:

- Momentary Switch
- Door Exit Switch
- SPDT Switch
- Latching Switch
- Dry Contact Sensors



Set Timers

Turn on/off your appliances automatically.



Rich Logs

Record device triggers, including external switch triggers, etc.



Voice Control

Free your hands and control devices with one command.

Image: This diagram illustrates the versatility of the MINIR4M, showing its ability to connect easily to various external switch types, including momentary switches, door exit switches, SPDT switches, and latching switches, allowing for flexible control options.

5.4 Detach Relay Mode

In "Detach Relay Mode," the state of the external physical switch and the internal relay are separated. This means that operating the external switch will not directly affect the relay's state. This mode is useful for maintaining smart control even if the physical switch is in a specific position, or for using the physical switch to trigger smart scenes without directly controlling the load.



*The "eWeLink Web" and "IFTTT" are part of eWeLink Advanced Plan.

Image: This illustration compares normal operation with "Detach Relay" mode. In normal mode, turning off the physical switch makes the smart light offline. In "Detach Relay" mode, the smart light remains controllable via the app even if the external switch is off, as their states are separated.

5.5 Smart Scenes and Automation

Leverage the MINIR4M's capabilities to create smart scenes and automate your home. It can work with motion sensors, door/window sensors, and other smart devices to trigger actions. For example, turn on lights when motion is detected.

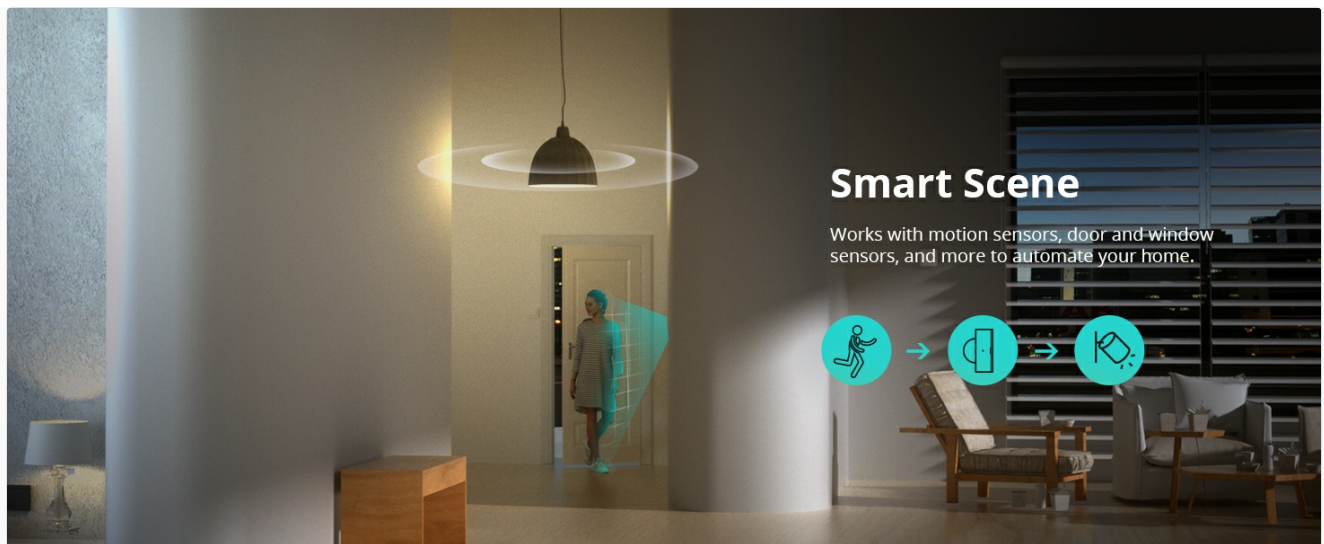


Image: An illustration depicting a smart scene where a person's entry into a room, detected by a sensor, automatically triggers the lights to turn on, demonstrating home automation.



Image: This diagram illustrates the "Delay Power-on State" feature, showing how lights in different areas of a house can be configured to turn on with a specified delay (e.g., 1s or 3s delay ON) after power is restored or a trigger occurs, providing additional control and protection.

6. MAINTENANCE

- **Firmware Updates:** Regularly check for and install firmware updates through the eWeLink app to ensure optimal performance, security, and access to new features.
- **Cleaning:** If necessary, gently wipe the device with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Connection Check:** Periodically ensure all wiring connections are secure.

7. TROUBLESHOOTING

- **Device Not Responding:**
 - Check if the device has power.
 - Verify Wi-Fi connectivity. Ensure the device is within range of your router.
 - Restart the device by cycling its power at the circuit breaker.

- Check the eWeLink app or Matter-compatible app for device status.

- **Cannot Pair Device:**

- Ensure your Wi-Fi network is 2.4GHz. The MINIR4M does not support 5GHz Wi-Fi.
- Confirm the device is in pairing mode (usually indicated by a blinking LED).
- Reset the device to factory settings (refer to the eWeLink app for specific instructions) and try pairing again.
- Ensure your smartphone is connected to the same 2.4GHz Wi-Fi network during pairing.

- **External Switch Not Working:**

- Verify the wiring of the external switch to the S1 and S2 terminals.
- Check the switch mode settings in the eWeLink app.

- **Delayed Response:**

- Ensure a strong and stable Wi-Fi signal.
- Check for network congestion or interference.
- Update device firmware.







8. SPECIFICATIONS

Feature	Detail
Model Number	MINIR4M
Product Dimensions	2.5 x 1.8 x 0.74 inches
Weight	15.87 ounces
Operating Voltage	120 Volts
Current Rating	10 Amps
Operation Mode	MANUAL-SMART-MANUAL
Contact Type	Normally Open
Connector Type	Plug In
Terminal	Screw
Circuit Type	2-way
Actuator Type	Push Button
Certifications	TÜV, CE, FCC

9. WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please visit the official SONOFF website or contact their customer service. You can also find additional resources and FAQs on the [SONOFF Store on Amazon](#).

Related Documents - MINIR4M

	<p>SONOFF MINIR4M Wi-Fi Smart Switch User Manual</p> <p>User manual for the SONOFF MINIR4M Wi-Fi Smart Switch, detailing its features, specifications, installation, and pairing methods for Matter and eWeLink apps.</p>
	<p>SONOFF ZBMINI ZigBee Smart Switch Installation Manual</p> <p>This manual provides detailed instructions for installing and operating the SONOFF ZBMINI ZigBee smart switch. Learn about wiring, pairing with Zigbee gateways like SONOFF ZBBridge, SmartThings, and Philips Hue, and controlling your devices via the eWeLink app. Includes troubleshooting tips and technical specifications.</p>
	<p>SONOFF MINIR4M-E User Manual: Matter Over WiFi Smart Wall Switch</p> <p>Comprehensive user manual for the SONOFF MINIR4M-E, a Matter Over WiFi smart wall switch. Learn about installation, setup, Matter and eWeLink integration, specifications, and compliance.</p>
	<p>SONOFF MINIR2 Quick Start Guide - Smart WiFi Switch Installation</p> <p>Detailed instructions and setup guide for the SONOFF MINIR2 smart WiFi switch. Learn how to install, connect, and use this 2-way smart switch with Alexa, Google Home, and the eWeLink app.</p>
	<p>Sonoff MINIR4M-E Smart Switch Quick Start Guide</p> <p>A comprehensive guide to installing and operating the Sonoff MINIR4M-E smart switch, covering wiring, app pairing, features, and specifications for smart home automation.</p>
	<p>Sonoff MINI-D Wi-Fi Smart Switch User Manual</p> <p>User manual for the Sonoff MINI-D Wi-Fi Smart Switch, detailing its features, specifications, installation, and operation. This smart switch supports AC/DC power, dry contact output, Matter protocol, and voice control.</p>