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SanmeiLi DUALR3

SONOFF DUALR3 Smart Dual Relay Module User Manual

Model: DUALR3

1. INTRODUCTION

The SONOFF DUALR3 is an advanced Wi-Fi smart dual relay switch module designed to bring smart control capabilities to your existing electrical systems. It allows for remote control and automation of lights, home appliances, and motorized devices such as roller shutters, window shades, and blinds. With its versatile working modes and power metering function, the DUALR3 offers enhanced convenience and energy management for your smart home.

2. PRODUCT OVERVIEW

The SONOFF DUALR3 is a compact module designed for flush mounting behind standard switches. It features two independent relay channels, enabling control of two separate devices or circuits. The module also includes power metering capabilities to monitor energy consumption.



Image: Multiple SONOFF DUALR3 modules, showcasing their compact design and terminal connections.



Image: Top view of a single SONOFF DUALR3 module, highlighting the input/output terminals (Nin, Lin, Lout1, Lout2) and control buttons (S1, S2).

3. SETUP AND INSTALLATION

3.1 What's in the Box

- SONOFF DUALR3 Smart Dual Relay Module
- User Manual
- Mounting Accessories (if included)

3.2 Wiring Diagram

Important: All wiring should be performed by a qualified electrician. Ensure power is disconnected before installation.

The DUALR3 supports various wiring configurations depending on the desired mode (Switch, Motor, Meter). Refer to the specific wiring diagrams provided in the eWelink app or the official SONOFF documentation for detailed instructions. General connections include:

- **Nin:** Neutral Input

- **Lin:** Live Input
- **Lout1:** Live Output 1
- **Lout2:** Live Output 2
- **S1, S2:** External Switch Inputs (for traditional wall switches)

3.3 Device Pairing

1. Download the eWelink App from the App Store or Google Play. [Download eWelink App](#)
2. Register and log in to your eWelink account.
3. Power on the DUALR3 module.
4. Open the eWelink app and tap the "+" icon to add a device.
5. Follow the on-screen instructions to put the device into pairing mode and complete the connection.



Image: SONOFF DUALR3 module with its packaging, illustrating the eWelink app integration and download options.

4. OPERATING MODES

The DUALR3 offers three distinct operating modes to suit various applications:

4.1 Switch Mode

In Switch Mode, the DUALR3 functions as a standard dual-channel smart switch, allowing independent control of two connected electrical loads (e.g., lights, fans). You can turn devices on/off via the eWelink app, voice commands (Alexa, Google Assistant), or connected external switches.

4.2 Motor Mode (Roller Shutter/Curtain)

Motor Mode is specifically designed for controlling motorized devices like roller shutters, window shades, blinds, and electric curtains. This mode provides precise control over the motor's direction (open/close) and allows for setting specific opening/closing percentages. It also supports scheduling timed events for automatic operation.

4.3 Meter Mode

Meter Mode enables the DUALR3 to monitor the power consumption of connected devices. This mode provides real-time energy usage data through the eWelink app, allowing users to track and manage their electricity consumption for energy efficiency.

5. MAINTENANCE

The SONOFF DUALR3 is designed for low maintenance. To ensure optimal performance and longevity:

- Keep the module in a dry environment, away from moisture and extreme temperatures.
- Avoid exposing the device to direct sunlight for prolonged periods.
- Do not attempt to disassemble or repair the module yourself. Refer to qualified personnel for any issues.
- Regularly check for firmware updates via the eWelink app to ensure the device has the latest features and security patches.

6. TROUBLESHOOTING

If you encounter issues with your SONOFF DUALR3, refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution
Device offline in app	No Wi-Fi connection, incorrect Wi-Fi password, router issues.	Check Wi-Fi signal strength, verify Wi-Fi password, restart router, re-pair device.
Cannot pair device	Incorrect pairing mode, 2.4GHz Wi-Fi not used, network interference.	Ensure device is in pairing mode, connect phone to 2.4GHz Wi-Fi, try different pairing methods (e.g., compatible pairing).
Device not responding to commands	Power supply issue, device malfunction, app error.	Check power connection, restart device, update eWelink app, factory reset device and re-pair.
Motorized curtain/shutter not moving correctly	Incorrect calibration in Motor Mode, wiring error.	Recalibrate the motor in the eWelink app, verify wiring according to the motor mode diagram.

7. SPECIFICATIONS

Feature	Specification
Model	DUALR3
Input	100-240V AC 50/60Hz
Max Load	10A/Gang, 15A/Total
Wi-Fi Standard	IEEE 802.11 b/g/n 2.4GHz
Dimensions	Approx. 1.18 x 0.79 x 0.39 inches (Package Dimensions)
Operating Temperature	Not specified (typical range for smart devices is 0°C to 40°C)
Material	PC V0

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official SanmeiLi or SONOFF website, or contact your retailer. Keep your purchase receipt for warranty claims.