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SONOFF MINI-ZBRBS

SONOFF MINI-ZBRBS Zigbee Smart Roller Shutter Switch User Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the SONOFF MINI-ZBRBS Zigbee Smart Roller Shutter Switch. Please read this manual carefully before use to ensure proper functionality and safety.

Smart Curtain Upgrade Starts Here

SONOFF Zigbee Smart Roller Shutter Switch

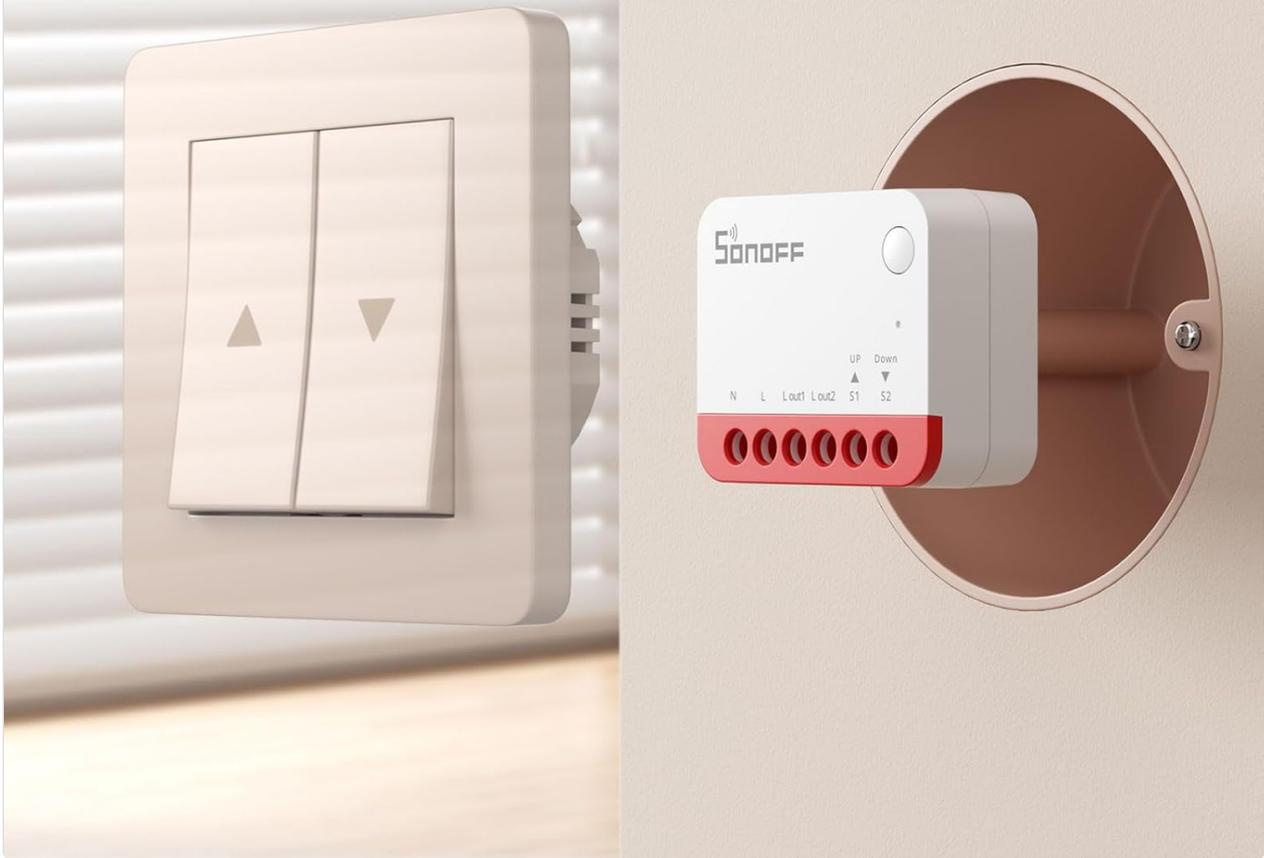


Image 1.1: The SONOFF MINI-ZBRBS Zigbee Smart Roller Shutter Switch shown alongside a traditional wall switch, illustrating its compact design and integration capability.

2. PRODUCT OVERVIEW

The SONOFF MINI-ZBRBS is a compact Zigbee smart switch designed to integrate with existing motorized curtain systems. It offers precise percentage control, scheduled operation, and acts as a Zigbee repeater to extend your network. It supports seamless integration with major smart home platforms like Home Assistant, Alexa, and Google Assistant.

- **Mini Size:** Compact design compatible with various small wall-mounted junction boxes (e.g., European standard 60/80 junction box).
- **Precise Percentage Adjustment:** Allows for fine-tuned control of curtain opening/closing percentages.
- **Scheduled Curtain Operation:** Automate curtain movements based on your daily routines.
- **Seamless Smart Home Integration:** Compatible with Home Assistant (via ZHA & Zigbee2MQTT), Alexa, and Google Assistant.
- **Zigbee Signal Booster:** Functions as a Zigbee router to strengthen and extend your Zigbee network.

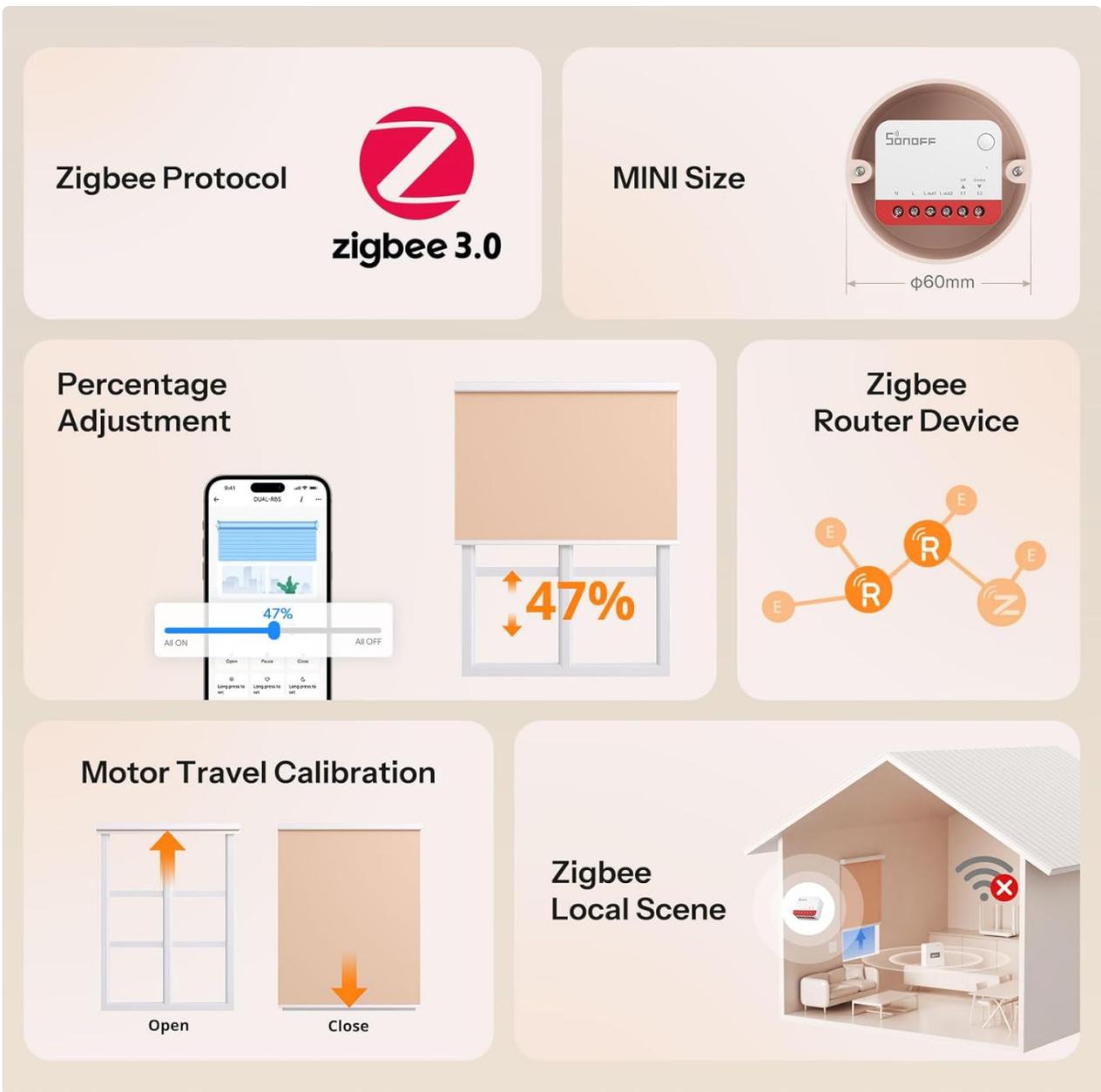


Image 2.1: An overview of the SONOFF MINI-ZBRBS key features, including Zigbee 3.0 support, compact size, percentage control, Zigbee routing capabilities, motor calibration, and local scene functionality.

3. SPECIFICATIONS

Feature	Specification
Model Number	MINI-ZBRBS
Operation Mode	ON-OFF
Current Rating	1 Amps
Operating Voltage	240 Volts (AC)
Connectivity Protocol	ZigBee
Control Method	App
Compatible Devices	Home Assistant, Alexa, Google Assistant, HomeKit

Feature	Specification
Item Dimensions (L x W x H)	1.56 x 1.3 x 0.66 inches
Item Weight	3.87 ounces
Material	Polycarbonate, Copper
International Protection Rating	IP00

4. SAFETY INFORMATION

WARNING: Electrical installation should only be performed by a qualified electrician. Ensure power is disconnected at the circuit breaker before installation or maintenance. Failure to follow these instructions can result in electric shock, fire, or serious injury.

- Do not exceed the maximum load rating of 1 Amp.
- Ensure the device is installed in a dry environment, away from moisture and extreme temperatures.
- This device requires a neutral wire for operation.
- The curtain motor connected must have a built-in "End-of-Travel Limit" function.

5. PACKAGE CONTENTS

- SONOFF MINI-ZBRBS Zigbee Smart Roller Shutter Switch (Quantity as per pack)

6. SETUP & INSTALLATION

6.1 Wiring Instructions

Before wiring, ensure the main power supply is turned off at the circuit breaker. The MINI-ZBRBS requires a neutral wire. Connect the device according to the diagram below for a four-wire AC motor and a rocker switch.

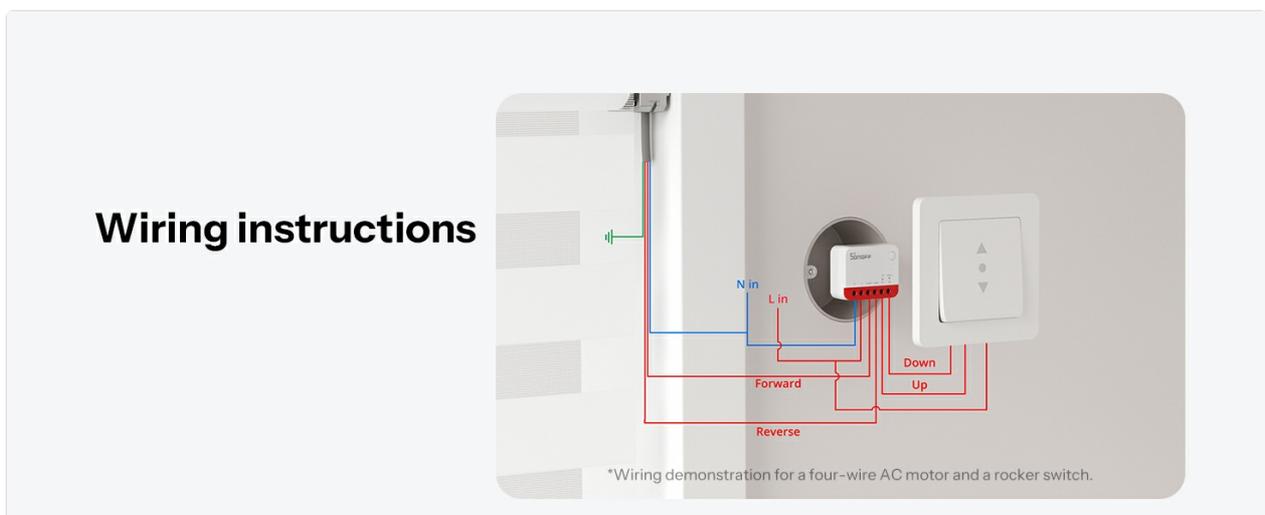
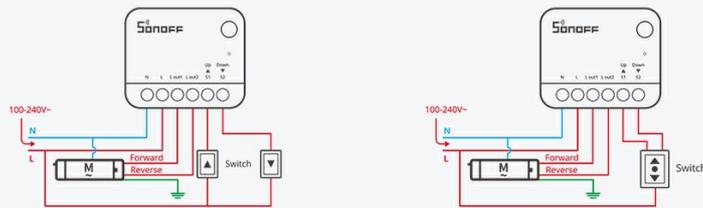


Image 6.1.1: Detailed wiring diagram for connecting the SONOFF MINI-ZBRBS to a four-wire AC motor and a rocker switch.



Terminal	Terminal Full Name	Wires	
N	Neutral	N	Neutral
L	Live (100-240V)	L	Live (100-240V)
L out1	Live_OUT Terminal1 (100-240V)	Forward	Motor Forward Line
L out2	Live_OUT Terminal2 (100-240V)	Reverse	Motor Reverse Line
S1 (Up)	Switch 1 (Upward Control)		
S2 (Down)	Switch 2 (Downward Control)		

Image 6.1.2: Table providing a clear breakdown of each terminal on the MINI-ZBRBS, its full name, and corresponding wire connection (Neutral, Live, Motor Forward, Motor Reverse, Switch Up, Switch Down).

6.2 Motor Requirements

The SONOFF MINI-ZBRBS is compatible with general 4-wire AC motors and 5-wire AC motors (with neutral wire, motor forward line, motor reverse line, and ground line). It is crucial that the motor is equipped with built-in forward/reverse rotation limiters (end-of-travel limits).



Motor Requirements

The motors supported by the device for control are general 4-wire AC motors and 5-wire AC motors (with neutral wire, motor forward line, motor reverse line and ground line) equipped with built-in forward/reverse rotation limiters.

Image 6.2.1: Example of a compatible tubular motor, highlighting the necessity for built-in rotation limiters.

6.3 Compatible Mounting Box Sizes

The compact design of the MINI-ZBRBS allows it to fit into various standard mounting boxes. Ensure the depth of the mounting box is at least 60mm for proper installation.

Compatible Mounting Box Sizes

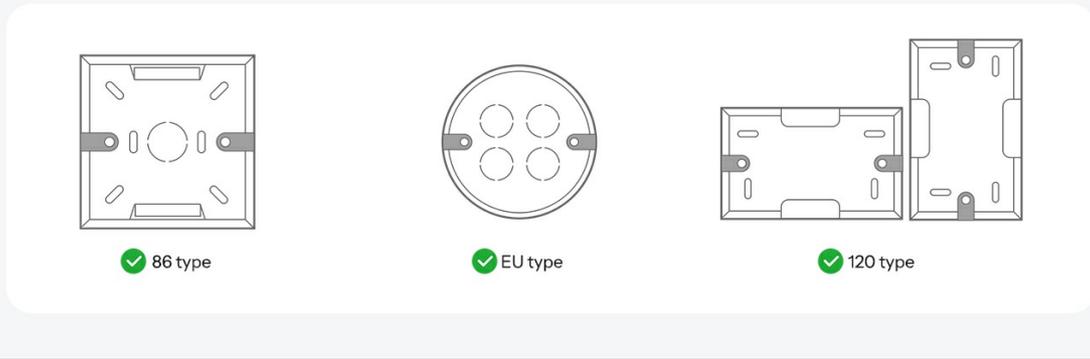


Image 6.3.1: Illustrations of compatible mounting box types, including 86 type, EU type, and 120 type, all suitable for the MINI-ZBRBS.

6.4 Pairing & Configuration

After successful wiring, power on the device. The MINI-ZBRBS will enter pairing mode automatically or can be manually put into pairing mode by pressing and holding the reset button for 5 seconds. Refer to your Zigbee hub's instructions for adding new devices. Once paired, you can configure the device through your smart home application.

7. OPERATION

7.1 Motor Travel Calibration

For precise curtain positioning, motor travel calibration is essential. This process teaches the switch the full range of your curtain's movement. Follow the instructions within your smart home application (e.g., Home Assistant) to initiate and complete the calibration. This ensures smooth and accurate open/close operations without over-pulling or stopping halfway.

Motor Travel Calibration, Precise Curtain Positioning

Let your curtains stop exactly where you want — no more over-pulling or stopping halfway. With smart travel calibration, the system learns your curtain's full range, so every open or close is smooth, accurate, and just right. Set it once, and enjoy hands-free perfection every day.

The image shows two side-by-side illustrations of a living room with a window. On the left, a vertical slider control is shown with 'ON' at the top and 'OFF' at the bottom. A red dot is positioned at the top, and a red arrow points to the top of the window, indicating precise positioning. A callout bubble shows the SONOFF MINI-ZBRBS device. On the right, a similar slider is shown, but the red dot is positioned lower, and the red arrow points to the bottom of the window, indicating imprecise positioning. A callout bubble shows a generic 'Others' device.

SONOFF MINI-ZBRBS Others

Image 7.1.1: Visual comparison demonstrating the precise curtain positioning achieved with SONOFF MINI-ZBRBS motor travel calibration versus uncalibrated systems.

7.2 Percentage Adjustment

The MINI-ZBRBS allows you to control your curtains with precise percentage adjustments. Using your smart home app, you can set the exact opening level to match your preferences, schedule, or environmental conditions.

Precise Percentage Control, Open Exactly How You Like

With support for percentage-based positioning, you can customize the exact opening level to match your mood, schedule, or environment.



Image 7.2.1: A smartphone screen displaying the app interface for precise percentage control of roller blinds, allowing users to set the opening level.

7.3 Scheduled Operation

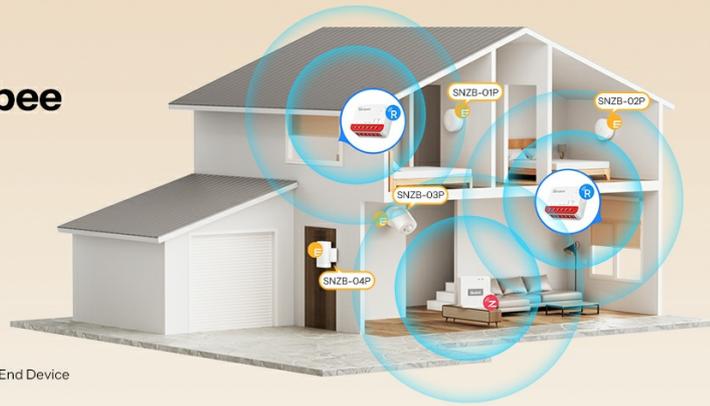
Automate your curtain movements by setting schedules within your smart home application. This feature allows curtains to open or close at specific times, enhancing daily convenience and energy efficiency.

7.4 Zigbee Repeater Function

The MINI-ZBRBS functions as a Zigbee router, extending the range and strengthening the reliability of your Zigbee mesh network. This helps ensure a stable connection for other Zigbee devices in your smart home.

Strengthen Your Zigbee Mesh Network

More than just a curtain controller, MINI-ZBRBS also acts as a Zigbee Router, helping to relay and extend Zigbee signals across your smart home.



 Zigbee Coordinator  Zigbee Router  Zigbee End Device

Image 7.4.1: A diagram showing the SONOFF MINI-ZBRBS acting as a Zigbee Router, relaying and extending Zigbee signals throughout a multi-story home.

7.5 Manual Switch Support

The device supports connection to traditional wall switches, allowing for both smart automation and physical control. You can still manually open or close your curtains using a momentary switch, double-rocker shutter switch, or three-position rocker switch.

Manual Switch Support, Always in Control

Enjoy the best of both worlds: smart automation and physical control. It supports connection to traditional wall switches, so you can still manually open or close your curtains with the press of a button.



Image 7.5.1: Examples of compatible manual wall switches, including momentary, double-rocker shutter, and three-position rocker switches, demonstrating versatile control options.

7.6 Integration with Smart Home Platforms

The MINI-ZBRBS seamlessly integrates with popular third-party smart home platforms such as Home Assistant (via ZHA & Zigbee2MQTT), Amazon Alexa, and Google Assistant. This allows for centralized control and the creation of complex automation routines.

Integration with Third-party Platforms

Enjoy a truly connected smart home experience. It can seamlessly integrate with popular third-party platforms like Home Assistant, allowing you to centralize control and build a flexible, scalable ecosystem tailored to your needs.

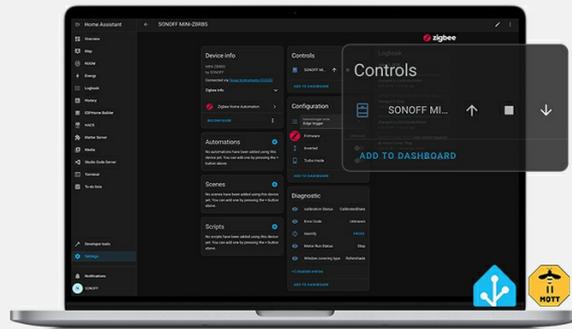


Image 7.6.1: A screenshot of the Home Assistant user interface, demonstrating the integration and control options for a SONOFF device.

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Video 7.6.2: An official product video demonstrating the functionality or installation of the SONOFF MINI-ZBRBS Zigbee Smart Roller Shutter Switch.

8. MAINTENANCE

The SONOFF MINI-ZBRBS is designed for low maintenance. Periodically check wiring connections to ensure they are secure. Keep the device free from dust and debris. Do not attempt to disassemble or repair the device yourself, as this will void the warranty and may pose safety risks.

9. TROUBLESHOOTING

- **Device not responding:** Check power supply to the switch. Ensure the Zigbee network is active and the device is within range of the hub or another Zigbee router. Re-pair the device if necessary.
- **Curtain not moving correctly:** Verify that the motor has built-in end-of-travel limits. Perform motor travel calibration as described in Section 7.1. Check wiring connections for any loose wires.
- **Cannot connect to smart home platform:** Ensure your Zigbee hub is properly configured and updated. Follow the pairing instructions specific to your hub and platform.
- **Intermittent connection:** The MINI-ZBRBS acts as a Zigbee repeater. If connection issues persist, consider adding more Zigbee routers to strengthen your mesh network.

10. WARRANTY & SUPPORT

SONOFF products typically come with a two-year warranty. For detailed warranty terms and conditions, please refer to the official SONOFF website or your purchase documentation.

For technical support or customer service inquiries, please contact:

- **Email:** support@itead.cc
- **Website:** Refer to the official SONOFF website for FAQs and additional resources.

