

Tapo Tapo S112

Tapo S112 2-Channel Smart Relay Switch User Manual

Your comprehensive guide to installation, operation, and maintenance.

1. INTRODUCTION

The Tapo S112 is a compact 2-channel smart relay switch designed for versatile home automation. It integrates seamlessly into your smart home ecosystem via WLAN (2.4GHz) and Bluetooth, offering control over bidirectional motors like roller shutters, or independent control of two lighting circuits or power outlets. This manual will guide you through every step to maximize the functionality and safety of your device.

2. PRODUCT OVERVIEW

2.1. Device Components

The Tapo S112 features a compact design with clearly labeled terminals for input and output connections. It includes an indicator light for status and a button for manual control or pairing.

2.2. Key Features

- **Dual-Channel Control:** Manages two separate circuits, ideal for roller shutters or two distinct light/power lines.
- **Two Operating Modes:** Supports both Roller Shutter Mode for automated blinds and Switch Mode for intelligent control of lamps or sockets.
- **Per-Channel Energy Monitoring:** Provides detailed energy consumption statistics and diagrams for each connected channel. *(Note: Not available with DC power supply.)*
- **Matter Compatibility:** Certified for Matter, ensuring broad integration with Apple Home, Alexa, Google Home, Samsung SmartThings, and IFTTT.
- **Remote Control:** Manage connected devices from anywhere using the Tapo App.
- **Comprehensive Safety:** Features overload and overheating protection, Zero-Crossing technology for extended lifespan, relay failure alarm, and automatic obstacle detection in Roller Shutter Mode.

- **Offline Bluetooth Control:** Configure and control the device via Bluetooth even without a Wi-Fi connection.
- **Smart Automations:** Create custom scenes and automations by linking with other Tapo devices.
- **Additional Channel as Scene Switch:** An unused channel can function as a wireless, battery-free scene switch.



The Tapo S112 Smart Relay Switch, shown with its retail packaging, highlights its compact design and key functionalities.

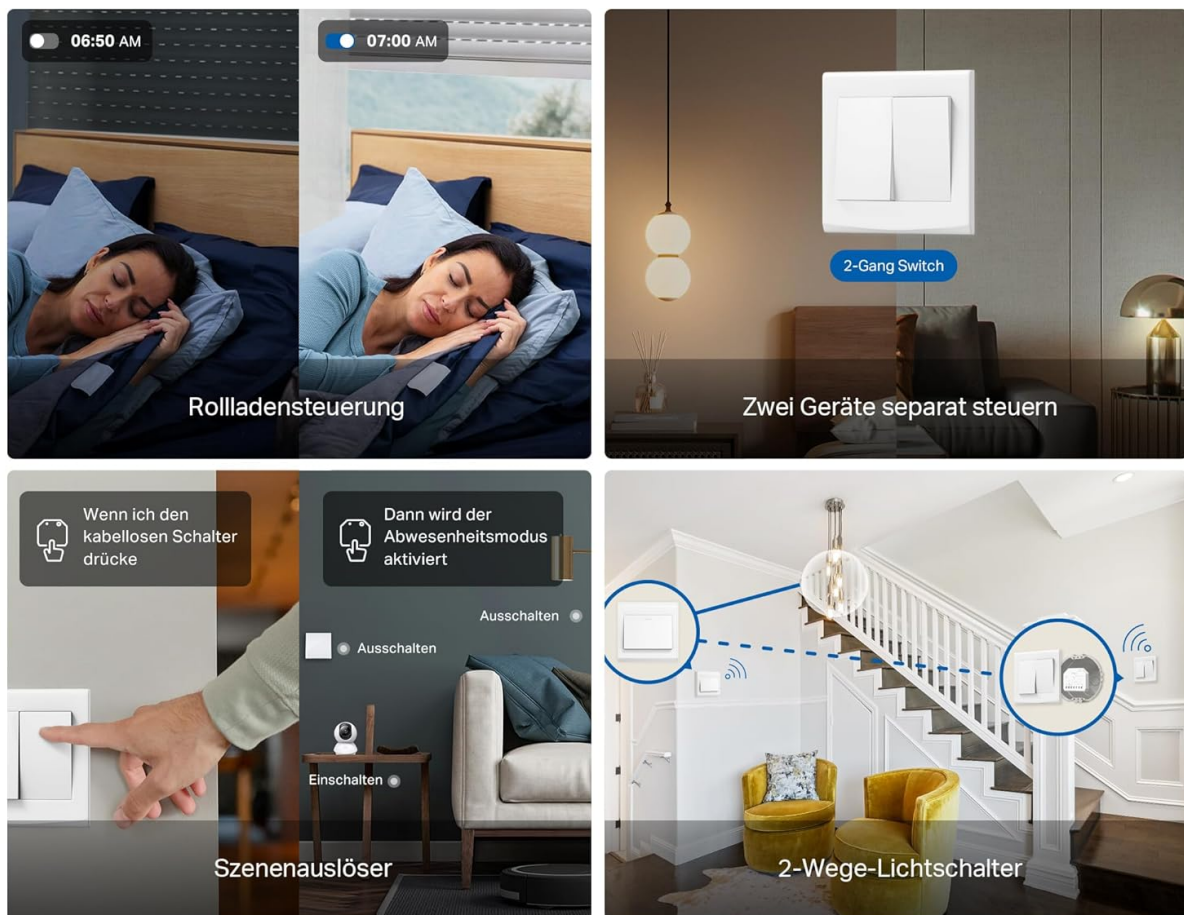
3. SETUP

3.1. Safety Precautions

- Ensure power is disconnected at the circuit breaker before any installation.
- Installation should be performed by a qualified electrician if you are unsure.
- Adhere to local electrical codes and regulations.
- Do not exceed the maximum current rating of 6 Amperes.

3.2. Wiring Diagram

The Tapo S112 supports two primary wiring configurations: Roller Mode and Switch Mode. Ensure you select the correct diagram for your intended application.



Ein Gerät, mehr Möglichkeiten

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This image illustrates the wiring connections for the Tapo S112, showing configurations for both roller shutter control (Roller Mode) and general switch control (Switch Mode) for lights or other devices.

Roller Mode Wiring:

Connect the Live (L), Neutral (N), and motor control wires (Up/Down) to the designated terminals on the S112. The S112 will then control the motor's direction.

Switch Mode Wiring:

Connect the Live (L), Neutral (N), and the two separate load wires (e.g., for two lights) to the S112. This allows independent control of each connected device.

3.3. Physical Installation

The compact size of the Tapo S112 (4.47 x 4.07 x 1.61 cm) allows it to fit into most standard electrical boxes. After wiring, carefully place the module into the box, ensuring no wires are pinched. Secure any existing wall switches over the module.



A close-up view of the Tapo S112 module, highlighting its compact dimensions (44.7mm x 40.7mm x 16.1mm) suitable for integration into standard electrical boxes.

4. OPERATING

4.1. Initial Setup with Tapo App

Downloading the Tapo App:

Search for 'Tapo' in the Apple App Store or Google Play Store and download the official Tapo application.

Connecting to the Device:

1. Power on the Tapo S112. The indicator light should begin blinking.
2. Open the Tapo App and follow the on-screen instructions to add a new device.
3. The app will guide you through connecting the S112 to your home Wi-Fi network. The device also supports direct Bluetooth control for initial setup and offline access.



Sofortige Steuerung per Bluetooth

tapo

A smartphone screen displaying the Tapo app interface, showing a roller shutter control and a Bluetooth connection icon, indicating direct control of the Tapo S112 via Bluetooth.

Calibration (for Roller Shutters):

If using the S112 for roller shutters, the app will prompt you to calibrate the motor's travel limits. Follow the instructions to ensure accurate open/close percentages.

4.2. Operation Modes and Features

Roller Shutter Mode:

In this mode, you can control your roller shutters with precision. Set specific open/close percentages, create schedules, or integrate with voice assistants for hands-free operation.

Rollladensteuerung



Zwei Lichter separat steuern



Volle Kompatibilität



Kompakte Bauweise und hohe Kompatibilität



Umfassende Sicherheitsgarantie



Nulldurchgangsschutz



Energie-
überwachung



Intelligente
Sprachsteuerung



Zeitplan & Timer



Intelligente Aktionen

An illustration showing the Tapo S112's capability to control roller shutters and two independent lighting circuits, demonstrating its dual-channel functionality.

Switch Mode:

Control two independent lights or other electrical appliances. You can turn them on/off remotely, set timers, or include them in smart home routines.

Energy Monitoring:

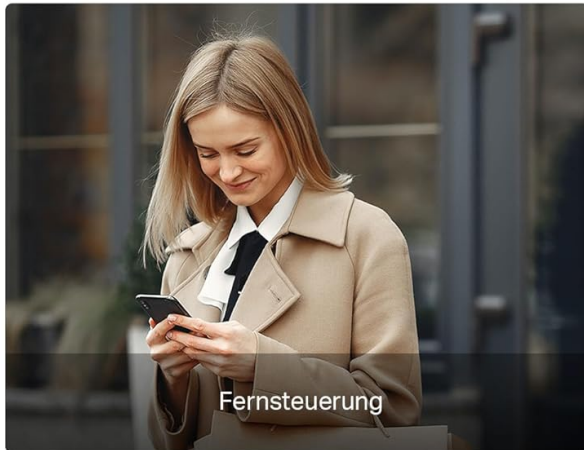
Access real-time and historical energy consumption data for each connected channel directly within the Tapo App. This feature helps you track and manage your power usage.



Zeitplan und Timer



Sprachsteuerung



Fernsteuerung



Szenen festlegen

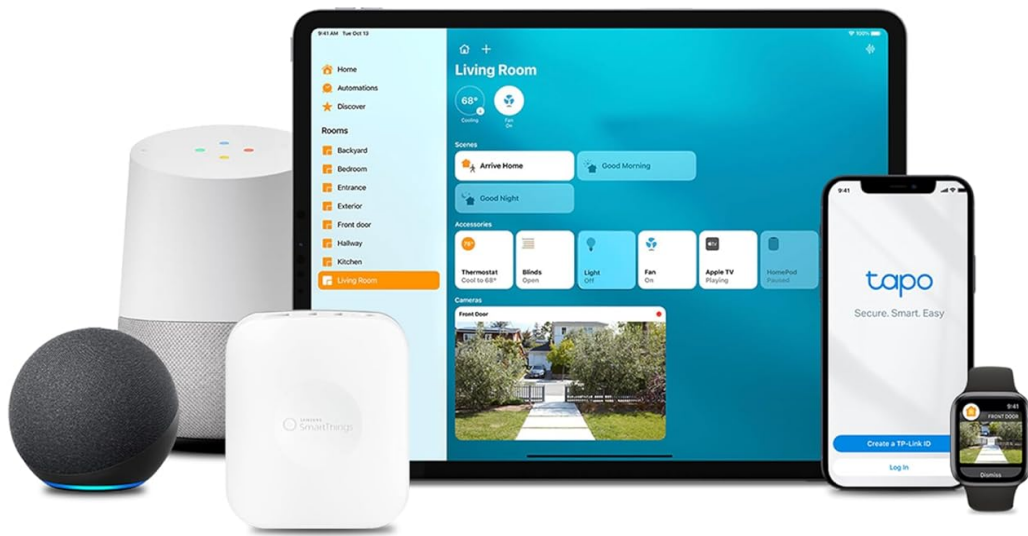
Smarte Funktionen für mehr Komfort im Alltag

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A visual representation of the Tapo S112's energy monitoring feature, showing daily and 30-day power consumption statistics for connected devices.

Matter Compatibility and Platform Integration:

The Tapo S112 is Matter-certified, ensuring seamless integration with major smart home platforms. This allows you to control your devices using your preferred ecosystem.



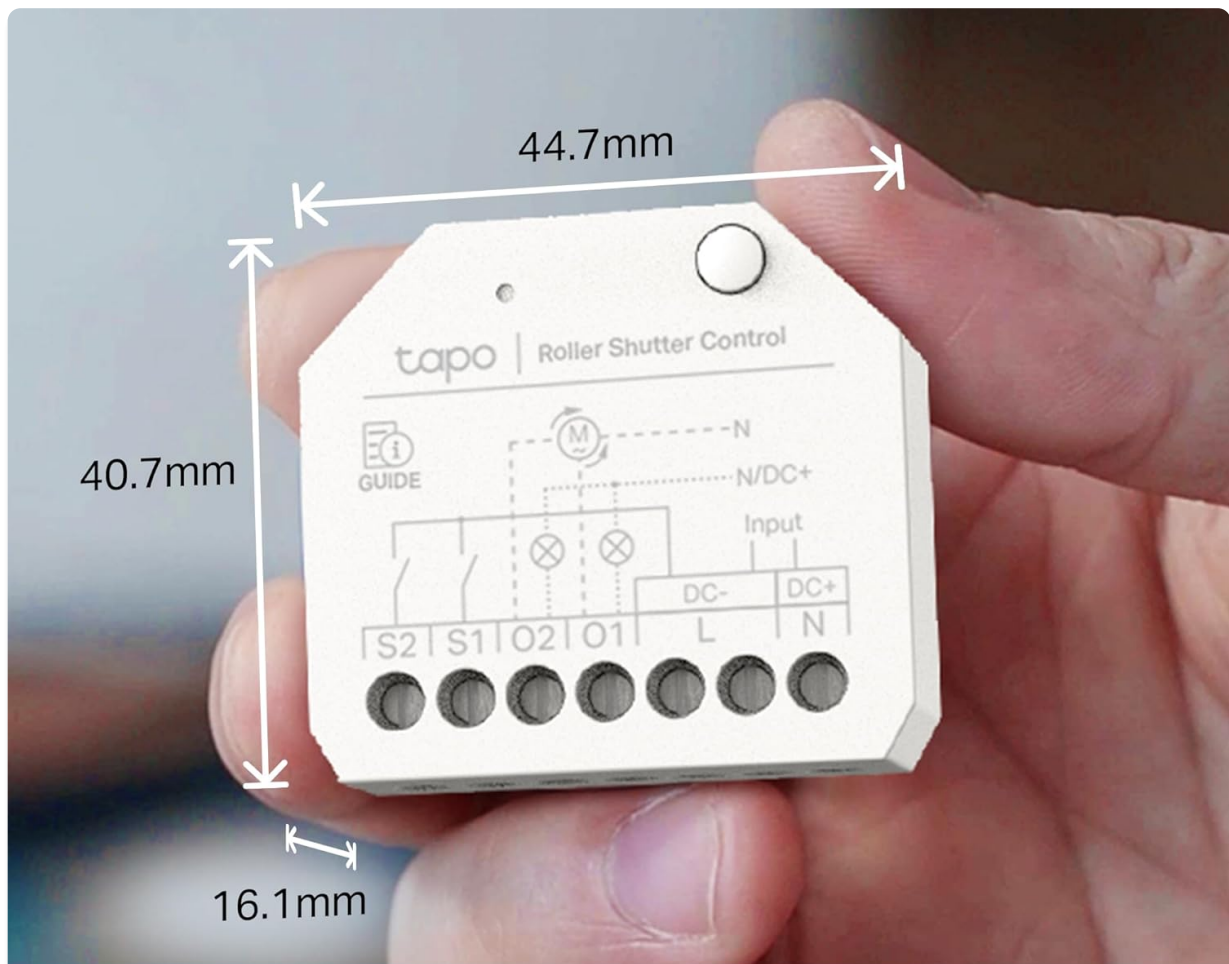
Volle Kompatibilität



An image showcasing the Tapo S112's broad compatibility with Matter-certified platforms, including Apple Home, Alexa, Google Home, Samsung SmartThings, and IFTTT.

Remote Control and Automation:

Utilize the Tapo App to control your devices from anywhere. Set schedules, timers, and create 'Smart Actions' to automate routines based on time, device status, or other triggers.



Kompakt und kompatibel

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This image illustrates various smart functionalities of the Tapo S112, such as setting schedules and timers for roller shutters, voice control via smart assistants, remote control via the Tapo app, and creating custom scenes.

5. MAINTENANCE

5.1. Safety Features

The Tapo S112 is built with multiple safety mechanisms to ensure reliable and secure operation:

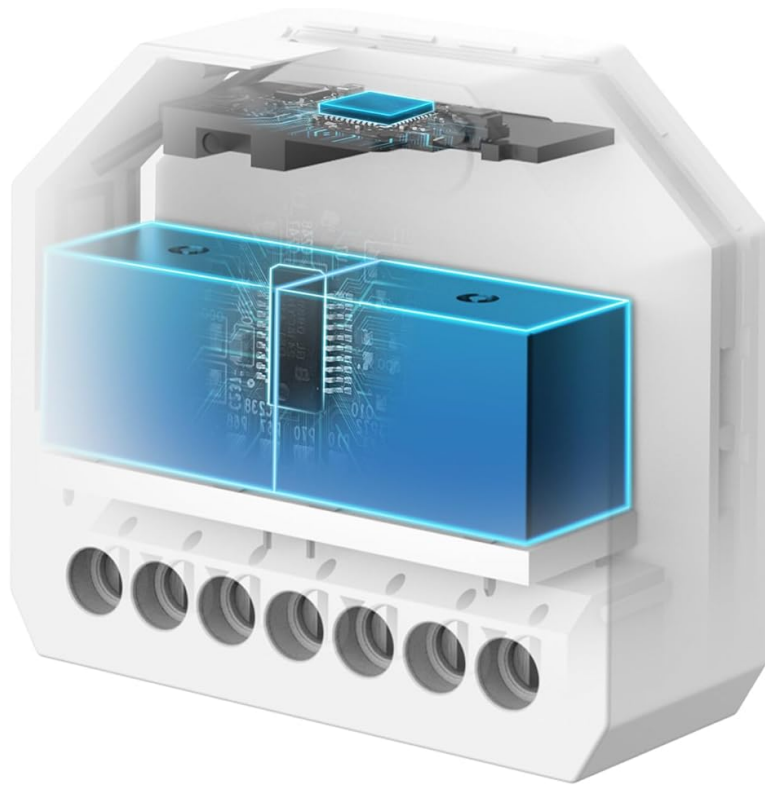
- **Overload Protection:** Automatically cuts power if the connected load exceeds safe limits.
- **Overheating Protection:** Shuts down the device if internal temperatures become too high.
- **Zero-Crossing Technology:** Extends the lifespan of the relay by switching at the zero-crossing point of the AC waveform.
- **Relay Failure Alarm:** Notifies you in case of a relay malfunction.
- **Obstacle Detection (Roller Mode):** Automatically stops roller shutters if an obstruction is detected.



Umfassende Sicherheitsgarantie

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A diagram highlighting the comprehensive safety features of the Tapo S112, including overload protection, overheating protection, zero-crossing technology for extended lifespan, relay failure alarm, and obstacle detection in roller mode.



10× längere Lebensdauer dank
Nulldurchgangsschutz

tapo

An internal view of the Tapo S112 module, illustrating the zero-crossing technology that contributes to a 10x longer lifespan for the device.

5.2. Firmware Updates

Regularly check for and install firmware updates via the Tapo App to ensure optimal performance, security, and access to new features.

6. TROUBLESHOOTING

6.1. Common Issues and Solutions

- **Device not connecting to Wi-Fi/Bluetooth:**
Ensure the device is powered on and within range of your router or smartphone. Try restarting the S112 and your router. Follow the in-app pairing steps carefully.
- **Roller shutter calibration issues:**
If the roller shutter does not move to the correct percentages, perform a re-calibration through the Tapo App. Ensure the motor is compatible and wired correctly.
- **Physical fit issues in electrical box:**
While compact, some older or smaller electrical boxes may have limited space. Verify the dimensions (4.47 x 4.07 x 1.61 cm) before purchase and installation.
- **Inaccurate percentage readings for roller shutters:**
This can sometimes occur due to motor type or initial calibration. Re-calibrate the device multiple

times if necessary. If the issue persists, consult Tapo support.

- **Device unresponsive:**

Check the power supply. If the device is completely unresponsive, try a factory reset (refer to the Tapo App for specific instructions on your model).

7. TECHNICAL SPECIFICATIONS

Attribute	Value
Product Dimensions	4.47 x 4.07 x 1.61 cm; 50 Grams
Model Number	Tapo S112
Brand	Tapo
Operating Mode	ON-OFF
Current Rating	6 Amperes
Connector Type	Screw
Circuit Type	2-Way
International Protection Certification	IP20
Number of Positions	2
Specification Met	Matter
Manufacturer	TP-Link
Country of Origin	China

8. WARRANTY AND SUPPORT

The Tapo S112 comes with a standard manufacturer's warranty. For detailed warranty information, please refer to the warranty card included with your product or visit the official Tapo website.

For technical support, troubleshooting assistance, or to report any issues, please visit the Tapo support page on the TP-Link website or contact their customer service directly. You can often find FAQs and community forums that may help resolve common queries.

