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› **LoraTap WiFi Smart Built-in Switch: Relay Module for Electric Roller Shutters, Curtains, Blinds, and Awnings with Roller Shutter Timer - 4-piece Set SC504W**

## LoraTap SC504W

# LoraTap WiFi Smart Built-in Switch Module
Model: SC504W

## 1. INTRODUCTION

The LoraTap SC504W WiFi Smart Built-in Switch Module is designed to transform your traditional roller shutter, curtain, blind, or awning switches into smart control centers. This module allows you to control your devices not only manually but also conveniently via a mobile application or voice commands using popular smart home assistants like Amazon Alexa and Google Assistant.

Its compact design (4.8 x 4.7 x 2.2 cm) allows it to fit into standard flush-mounted boxes, preserving the functionality of your existing manual switch. The module supports remote control, time scheduling, group control, and family sharing, offering enhanced convenience and security for your home.

## 2. SAFETY INFORMATION

**WARNING: Electrical installation should only be performed by a qualified electrician or a person with sufficient knowledge and training in electrical systems. Always disconnect power at the circuit breaker before performing any electrical work.**

- Ensure the power supply is completely off before installation or maintenance.
- A neutral wire (N) is required for the operation of this module. Verify its presence in your wall box before proceeding.
- Do not exceed the maximum load capacity of 300 Watts.
- This device is designed for indoor use only.

## 3. PACKAGE CONTENTS

Please check the package for the following items:

- LoraTap WiFi Smart Built-in Switch Module (SC504W)
- User Manual

## 4. SPECIFICATIONS

| Parameter | Value |
| --- | --- |

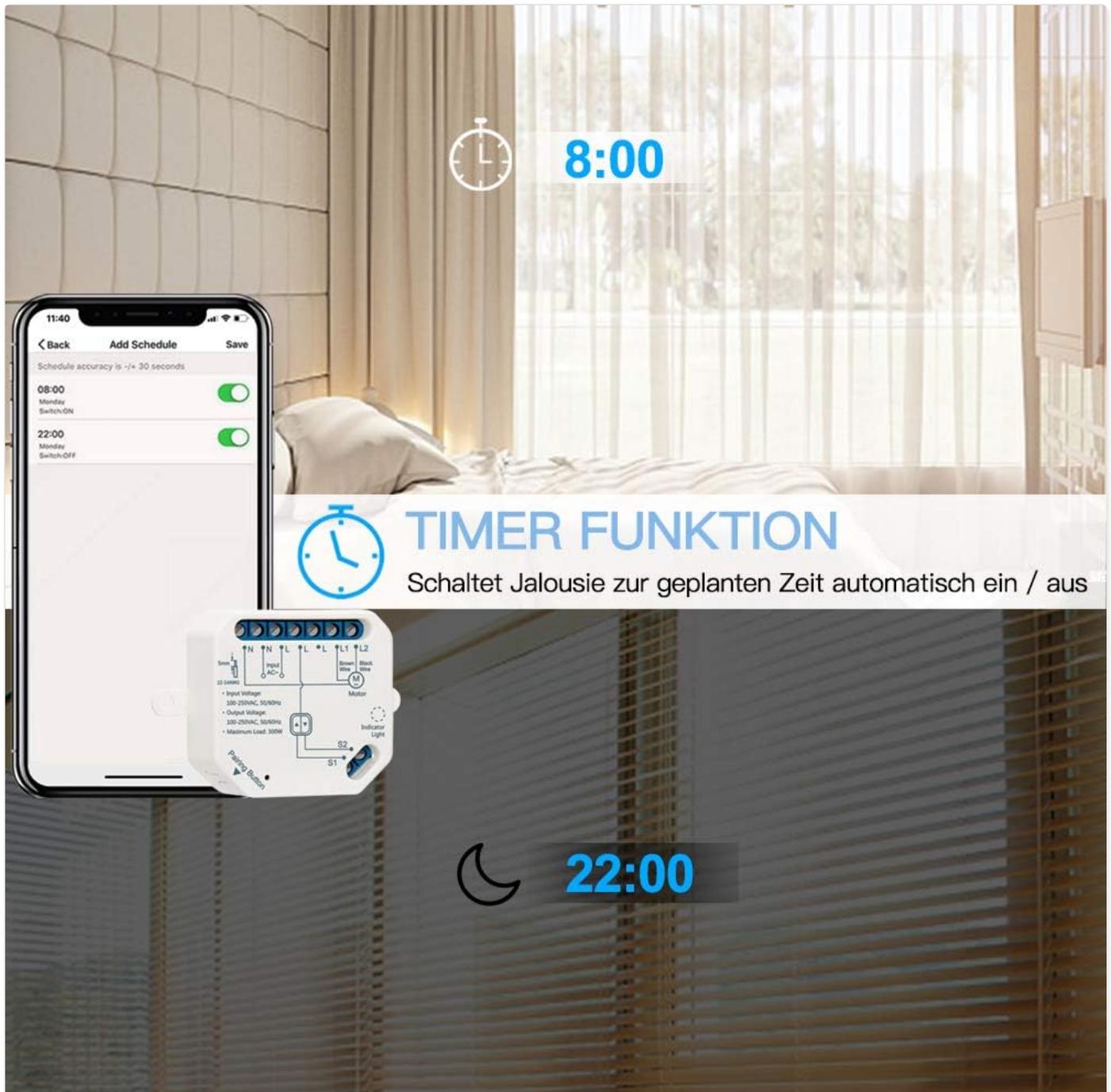| Model Number | SC504W |
|---|---|
| Input Voltage | 100-250VAC, 50/60Hz |
| Output Voltage | 100-250VAC, 50/60Hz |
| Maximum Load | 300W |
| Wireless Connectivity | 2.4 GHz Wi-Fi (IEEE 802.11 b/g/n) |
| Dimensions (L x W x H) | 4.8 x 4.7 x 2.2 cm |
| Weight | 250 g |



Figure 1: LoraTap SC504W module showing its compact dimensions (48mm x 47mm x 22mm).

## 5. INSTALLATION AND SETUP

## 5.1 Wiring Diagram

Follow the wiring diagram carefully. A neutral wire (N) is essential for the module's operation. Ensure all connections are secure.



Figure 2: Detailed wiring diagram for connecting the LoraTap SC504W module to an electric roller shutter motor and a traditional wall switch. Note the required neutral wire (N) connection.

- **Input L:** Live wire (100-250VAC).
- **Input N:** Neutral wire.
- **Output N:** Neutral wire to motor.
- **Output L1:** Live wire for one direction of motor (e.g., Up).
- **Output L2:** Live wire for the other direction of motor (e.g., Down).
- **S1, S2:** Connections for the manual wall switch.
- **PE:** Earth wire (if applicable to your motor/system).

## 5.2 Physical Installation

1. **Disconnect Power:** Turn off the main power supply to the circuit at your home's circuit breaker.

2. **Remove Existing Switch:** Carefully remove your existing roller shutter wall switch from its flush-mounted box.

3. **Wire the Module:** Connect the wires to the LoraTap module according to the wiring diagram (Figure 2). Ensure all connections are tight and secure. It is recommended to use flexible wiring for easier installation in tight spaces.

4. **Place Module:** Carefully place the wired module into the flush-mounted wall box. Due to its size, ensure there is sufficient space.

5. **Reinstall Switch:** Reinstall your original wall switch over the module.

6. **Restore Power:** Turn the main power supply back on at the circuit breaker.



Figure 3: The LoraTap SC504W module discreetly installed within a standard wall box, behind the existing roller shutter switch.
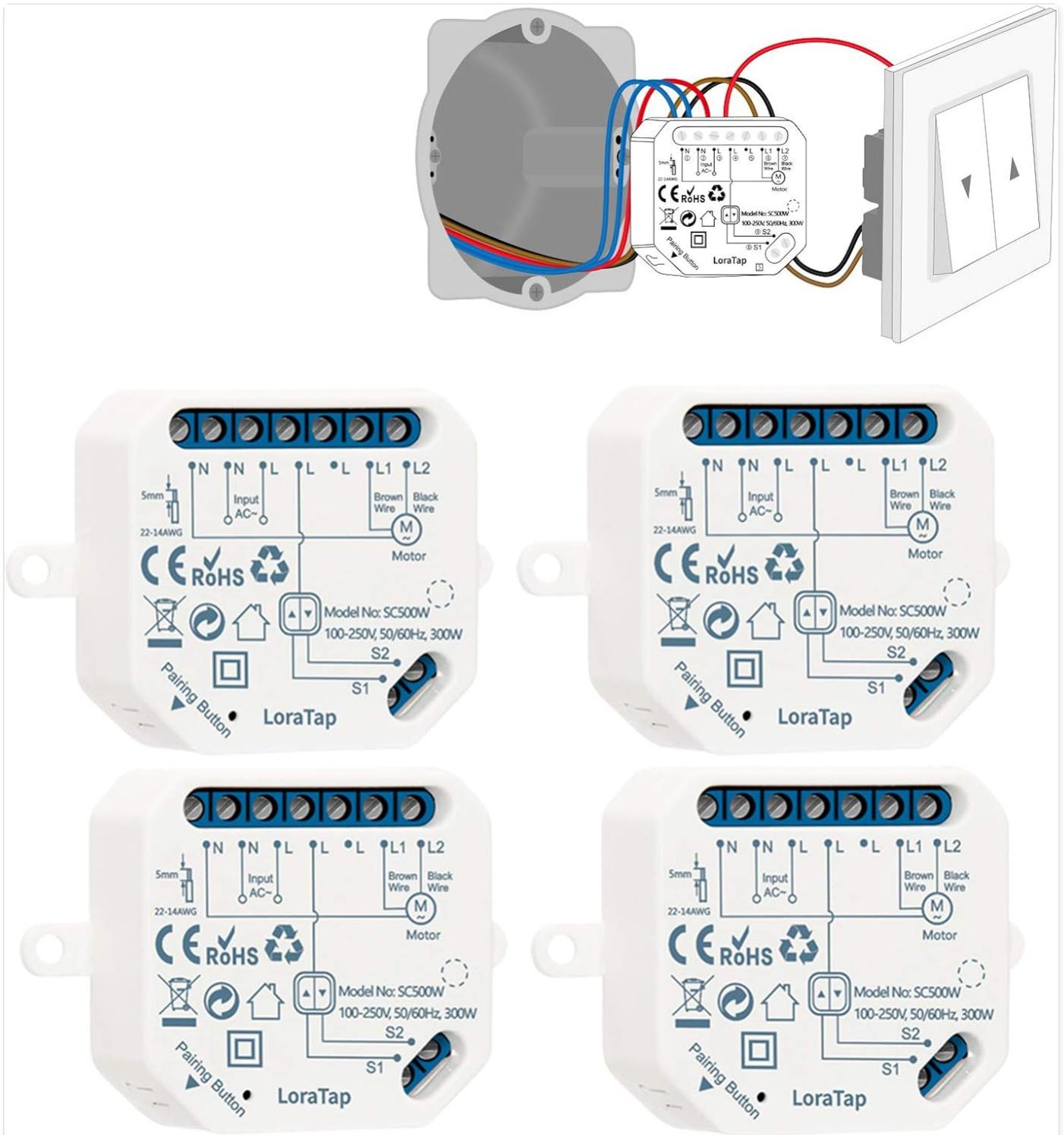
Figure 4: An illustrative overview of the LoraTap SC504W module's connection to the motor and wall switch, demonstrating its integration into the existing setup.

## 5.3 App Download and Pairing

1. **Download App:** Download the "Smart Life" app from the App Store (iOS) or Google Play Store (Android).

2. **Register**/**Login:** Open the app and register for a new account or log in if you already have one.

3. **Enter Pairing Mode:** Press and hold the "Pairing Button" on the LoraTap module for approximately 5 seconds until the indicator light starts blinking rapidly. This indicates it's in pairing mode.

4. **Add Device:** In the Smart Life app, tap the "+" icon in the top right corner to add a new device. Select "Curtain Switch" or "Shutter Switch" from the device list.

5. **Connect to Wi-Fi:** Follow the on-screen instructions to connect the module to your 2.4 GHz Wi-Fi network. Ensure your phone is also connected to the same 2.4 GHz network during pairing.

6. **Complete Pairing:** Once successfully paired, the indicator light on the module will stop blinking and remain solid. You can now rename your device in the app for easy identification.

# 6. OPERATING INSTRUCTIONS

## 6.1 Manual Control

The LoraTap module retains the functionality of your existing wall switch. You can continue to operate your roller shutters, curtains, or blinds manually by pressing the physical UP/DOWN buttons on your wall switch.

## 6.2 App Control (Smart Life App)

Once the module is paired with the Smart Life app, you can control your devices remotely from anywhere with an internet connection.

- Open the Smart Life app and select your LoraTap module.
- Use the virtual UP/DOWN buttons to open or close your roller shutters.
- You can also set the motor's running time (1 to 120 seconds) within the app to precisely control the opening/closing extent.

## 6.3 Timer and Schedule Function

Automate your roller shutters by setting schedules for opening and closing.
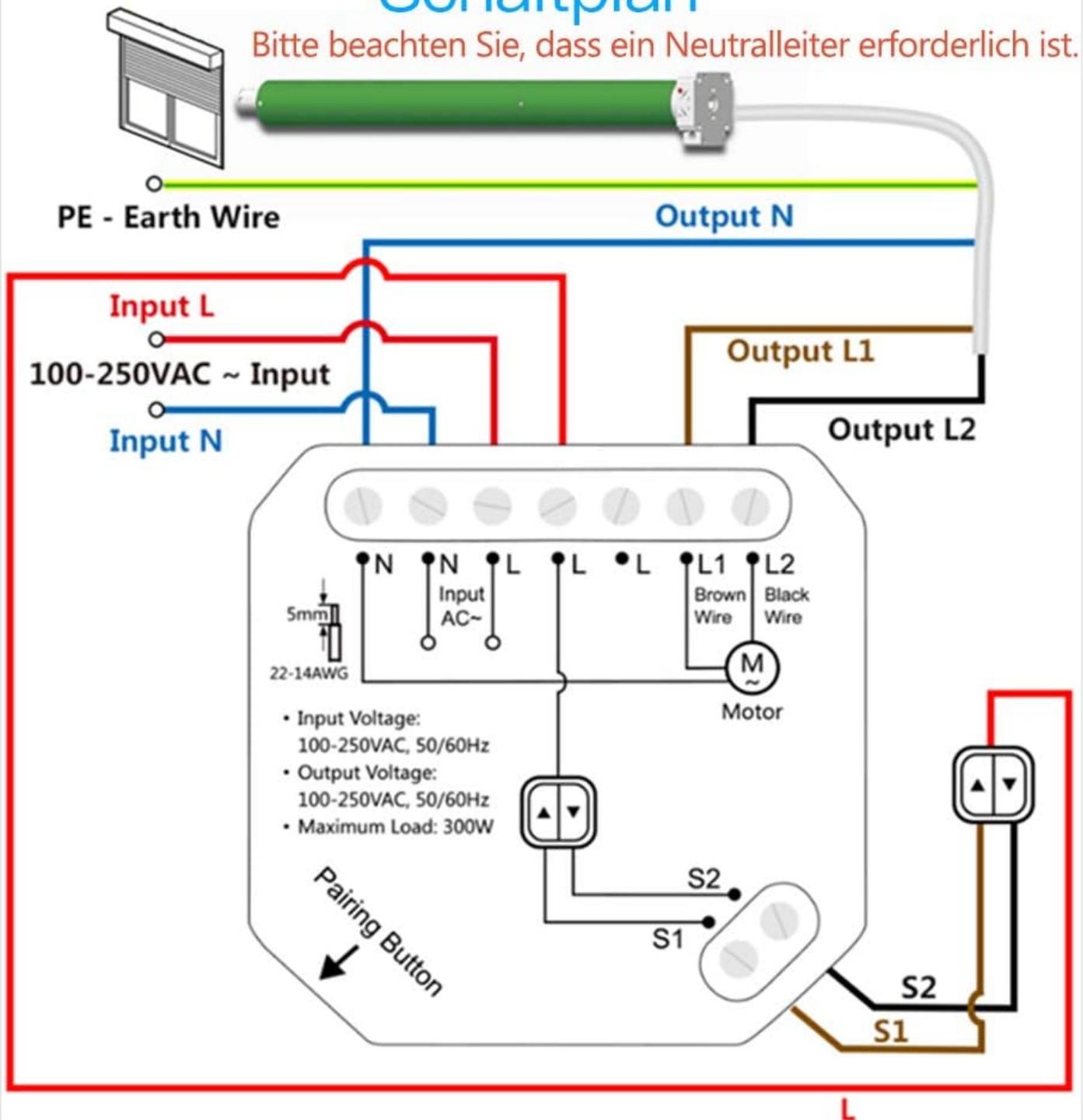
Figure 5: The Smart Life app's timer function allows you to set specific times for your roller shutters to open or close automatically, such as 8:00 AM for opening and 10:00 PM for closing.

- In the Smart Life app, navigate to your device settings.
- Select "Schedule" or "Timer" to create new automation rules.
- Set desired times for opening and closing, and select the days of the week for the schedule to repeat.

## 6.4 Voice Control (Alexa & Google Assistant)

Integrate your LoraTap module with Amazon Alexa or Google Assistant for convenient voice control.

# Einstellung Sharing

## Teilen Sie die Einstellungen mit Familienmitgliedern

Add Sharing

Figure 6: Voice control integration with Amazon Alexa and Google Assistant, allowing hands-free operation of your roller shutters using simple commands like "Alexa, close the blinds" or "Okay Google, open the curtains."

1. **Link Smart Life Account:** In your Alexa or Google Home app, search for the "Smart Life" skill/service and link your Smart Life account.

2. **Discover Devices:** Once linked, ask your voice assistant to "Discover devices" or manually initiate device discovery in the app.

3. **Voice Commands:** You can now use commands such as:
   - "Alexa, open [Device Name]"
   - "Alexa, close [Device Name]"
   - "Hey Google, open [Device Name]"
   - "Hey Google, close [Device Name]"

## 6.5 Group Control and Family Sharing

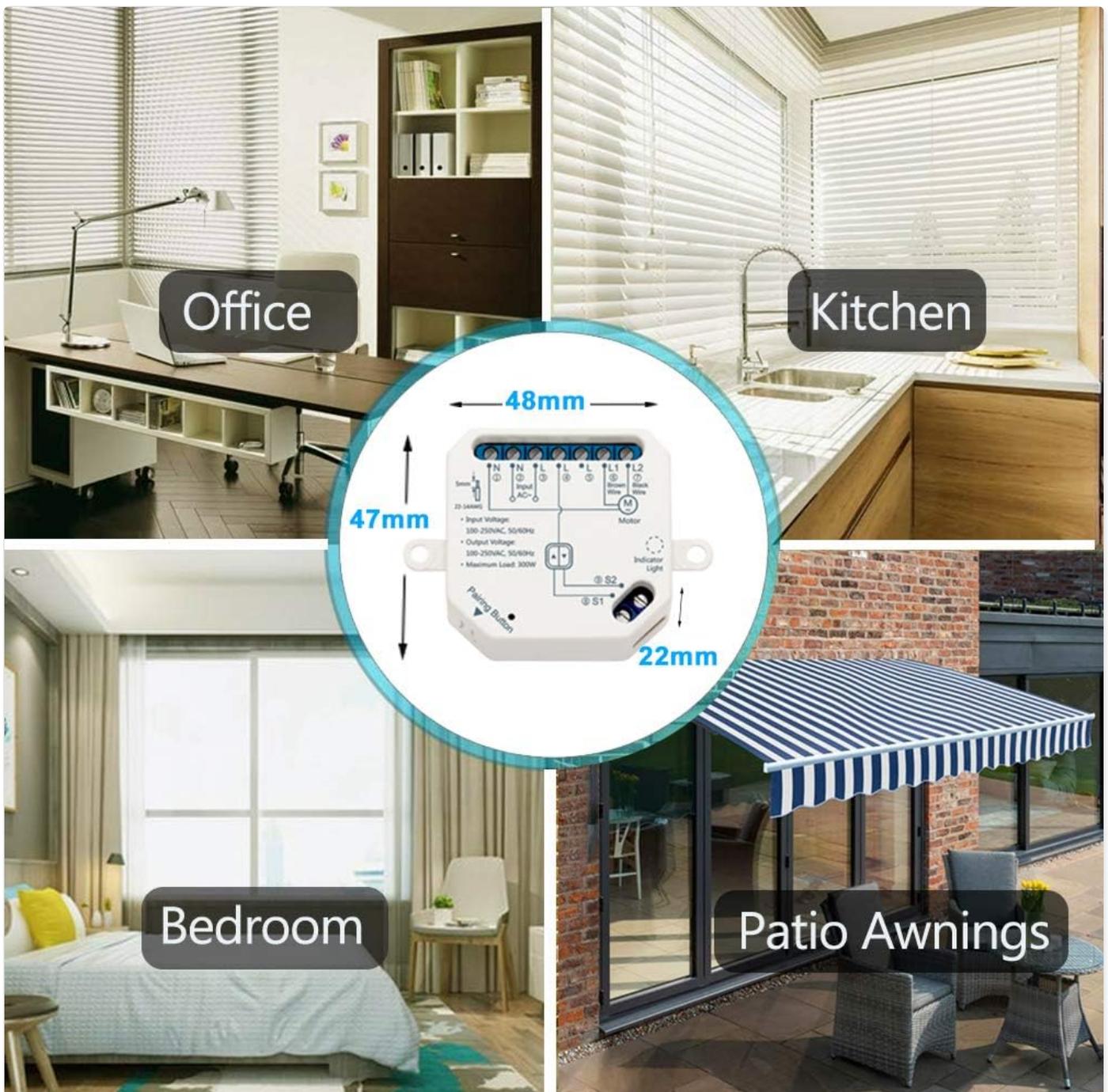Manage multiple modules together and share control with family members.

Figure 7: The Smart Life app offers features for family sharing, allowing multiple users to control the smart modules, and group control, enabling simultaneous operation of several roller shutters.

- **Group Control:** In the Smart Life app, you can create groups of devices to control multiple roller shutters simultaneously with a single command.
- **Family Sharing:** Share access to your devices with other family members through the app, allowing them to control the roller shutters from their own devices.

# 7. MAINTENANCE

The LoraTap SC504W module requires minimal maintenance. Follow these guidelines to ensure optimal performance:

- Keep the module and surrounding area dry and free from dust.
- Do not expose the module to extreme temperatures or humidity.
- Clean the exterior of the wall switch with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- Regularly check for any loose wiring connections, especially if you experience intermittent control issues.

# 8. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
| --- | --- | --- |
| Module not responding / No power. | Incorrect wiring; Power off; Loose connection. | Check wiring against Figure 2. Ensure neutral wire is connected. Verify power is on at the circuit breaker. Ensure all wire connections are secure. |
| Module not pairing with app. | Not in pairing mode; Incorrect Wi-Fi band; Weak Wi-Fi signal. | Press and hold the pairing button until the indicator blinks rapidly. Ensure your router is broadcasting a 2.4 GHz Wi-Fi network and your phone is connected to it. Move the module closer to your Wi-Fi router during pairing. |
| Roller shutter motor not moving. | Motor wiring issue; Module fault; Motor overload. | Check L1 and L2 output connections to the motor. Ensure the motor's maximum load does not exceed 300W. If the manual switch works but the module doesn't, try re-pairing the module. |
| Module does not fit in wall box. | Insufficient space in standard flush-mounted box. | Ensure you are using a deep enough wall box (e.g., 63mm depth). Use flexible wiring to allow for easier bending and positioning of wires. Consider installing a deeper wall box if necessary. |

# 9. WARRANTY AND SUPPORT

LoraTap products are manufactured to high quality standards. While specific warranty details are not provided in this manual, please refer to your purchase documentation or the seller's policy for warranty information.

For technical support, troubleshooting assistance, or any inquiries regarding your LoraTap SC504W module, please contact the seller or LoraTap customer support through the platform where you purchased the product. You can also visit the official LoraTap brand store on Amazon for more information and contact options.

**Visit LoraTap Store on Amazon**

**Related Documents - SC504W**

| | |
|---|---|
|  | **[LoraTap Smart Curtain Switch User Manual](#)**<br><br>User manual for the LoraTap Smart Curtain Switch, detailing installation, app control via Smart Life, and troubleshooting for Wi-Fi connected electric blinds and curtains. |
|  | **[LoraTap SC500W Roller Shutter Module User Guide and Installation](#)**<br><br>Comprehensive user guide for the LoraTap SC500W Roller Shutter Module, covering installation, wiring, setup with the Smart Life app, and troubleshooting for smart home automation. |
|  | **[LoraTap SC500W Smart Curtain Switch Installation Guide & Wiring Diagrams](#)**<br><br>Detailed installation guide and wiring instructions for the LoraTap SC500W smart curtain switch module. This document covers installation cautions, wiring for standard blinds and blinds with built-in drivers, and options for use without a physical manual switch, ensuring proper AC power connection for smart home automation. |
|  | **[LoraTap BA101KS Smart Wi-Fi Light Socket User Guide](#)**<br><br>Comprehensive user guide for the LoraTap BA101KS Smart Wi-Fi LED Light Bulb Socket Adapter, covering setup, app control, troubleshooting, and specifications. |

[Loratap Wireless Outlet User Guide: Installation, Operation, and Troubleshooting](#)
Comprehensive user guide for Loratap wireless outlets (models SP511Q1, SP7512Q1, SP7513Q1). Learn about installation, operation, pairing, troubleshooting, and safety warnings for your smart home devices.

[Loratap Wireless Socket User Guide - SP511Q2-US-V3, SP512Q2-US-V3](#)
User guide for the Loratap Wireless Socket models SP511Q2-US-V3 and SP512Q2-US-V3. Includes installation, pairing, troubleshooting, and technical specifications.