## SwitchBot W5502300

# SwitchBot Smart Relay Switch 1 User Manual

Model: W5502300

Brand: SwitchBot

## 1. INTRODUCTION

The SwitchBot Smart Relay Switch 1 is a compact, intelligent relay module designed to integrate traditional electrical appliances and lighting into your smart home system. Featuring an integrated Bluetooth repeater and Matter compatibility, it offers versatile control options and enhances your smart home network.

### What's in the Box

- SwitchBot Smart Relay Switch 1

*Please ensure all components are present and undamaged before proceeding with installation.*

## 2. SAFETY INFORMATION

**WARNING:** Installation should only be performed by a qualified electrician or a person with a thorough understanding of electrical systems. Incorrect installation can lead to electric shock, fire, or other hazards. Always disconnect power at the circuit breaker before installation or maintenance.

- Do not exceed the maximum load rating of 16A.
- Ensure proper wiring connections according to local electrical codes.
- The device is designed for indoor use only.
- Keep out of reach of children.

## 3. SETUP AND INSTALLATION

The SwitchBot Smart Relay Switch 1 is designed for quick installation, typically within 10 minutes, and fits into most standard switch boxes without extensive rewiring.

## 3.1 Wiring Diagram (AC Load)



This diagram illustrates connecting the relay switch to an AC load, such as a light fixture. Ensure Live (L) and Neutral (N) connections are correct.
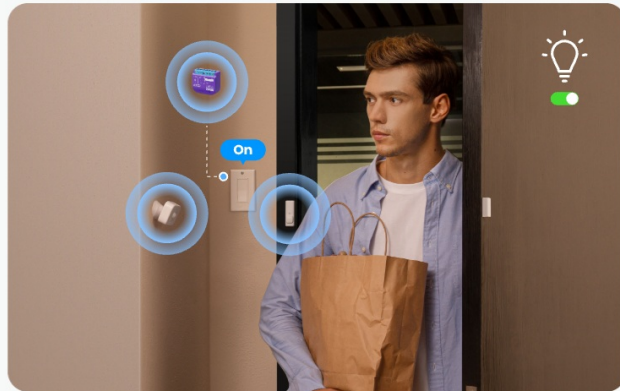
## 3.2 Wiring Diagram (Dry Contact Mode)

## Illuminazione Automatica

Associa con i Sensori di Contatto e di Movimento per accendere automaticamente le luci quando si apre una porta o quando ti svegli di notte.

Sensore di Contatto + Rilevatore di Movimento + Interruttore Relè 1

**Accedi ai filtri**

This diagram shows how to wire the relay switch for dry contact applications, compatible with low-voltage devices like automatic gates or doorbells.

### 3.3 Physical Installation

The compact design allows the relay switch to be installed discreetly behind existing wall switches or within junction boxes.

1. **Power Off:** Before any wiring, turn off the main power supply at your circuit breaker.
2. **Connect Wires:** Follow the appropriate wiring diagram (AC Load or Dry Contact) to connect the relay switch to your electrical circuit.
3. **Secure Device:** Place the relay switch securely within the switch box or junction box.
4. **Restore Power:** Turn the main power supply back on.
5. **App Pairing:** Download the SwitchBot app from your device's app store. Follow the in-app instructions to add and pair your Smart Relay Switch 1.

## 4. OPERATING INSTRUCTIONS

The SwitchBot Smart Relay Switch 1 offers multiple ways to control your connected devices.

### 4.1 Control Options Overview

The relay switch supports remote control via Wi-Fi, local control via Bluetooth, voice commands, timers, and smart scenes.

### 4.2 App Control (Wi-Fi & Bluetooth)



Use the SwitchBot app to turn devices on/off, set schedules, and configure smart scenes. Remote control is available via Wi-

Fi, while local control is possible via Bluetooth even without an internet connection.

## 4.3 Voice Control



With Matter compatibility, the relay switch integrates directly with Alexa, Apple Home, Google Home, and SmartThings. Use voice commands for hands-free control (a compatible smart speaker is required).

## 4.4 Smart Scenes and Automation



Create custom smart scenes within the SwitchBot app or your preferred smart home platform. For example, automatically turn on lights when a door opens (requires a SwitchBot Contact Sensor) or based on motion detection (requires a SwitchBot Motion Sensor).
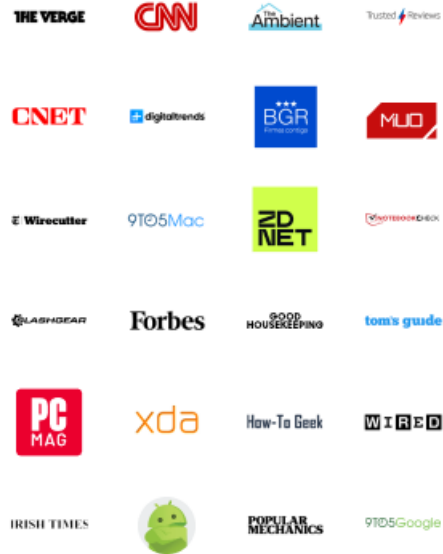


Set personalized schedules for your devices, such as turning off corridor lights at a preset time or automating garden irrigation based on temperature and humidity when paired with a SwitchBot Meter.

## 5. FEATURES

### 5.1 Matter Compatibility

The SwitchBot Smart Relay Switch 1 is Matter-certified, allowing direct connection and control via Alexa, Apple Home, Google Home, and SmartThings without requiring an additional hub (a compatible Matter controller is needed).

## 5.2 Integrated Bluetooth Repeater



This device includes a built-in Bluetooth repeater, supporting up to 10 other SwitchBot Bluetooth sub-devices simultaneously. This extends the range and reliability of your SwitchBot ecosystem.

## 5.3 Compact Design



With dimensions of 42mm x 36mm x 16mm, the relay switch is ultra-compact, allowing it to fit into most standard switch and outlet boxes without requiring extensive modifications.

## 5.4 Safety and Reliability

## Espandi la Portata della Rete di Casa Intelligente

Lavora insieme con più Relay Switch e Hub e copri tutti i dispositivi Bluetooth SwitchBot nella stessa rete ed ecosistema.

The device features a V0 flame-retardant body and over-temperature protection, ensuring safety by cutting power during emergencies. It also includes power-off memory, returning to its previous state after a power outage.
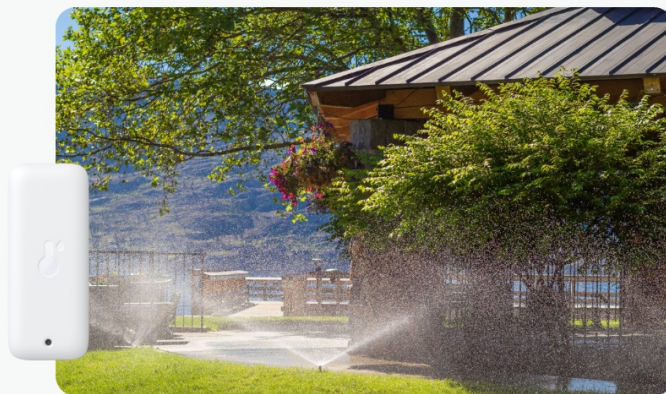
## 5.5 ESP32 Processor



### Irrigazione Basata Meteo

Funziona insieme al Metro Esterno di SwitchBot per arrocciare automaticamente i tuoi piante del giardino durante il tempo caldo.

Igrometro Termometro IP65 + Interruttore Relè 1

**Accedi ai filtri**

Equipped with an ESP32 processor, the relay switch provides enhanced communication, data transmission, and intelligent control efficiency.

## 6. MAINTENANCE

The SwitchBot Smart Relay Switch 1 requires minimal maintenance.

- **Cleaning:** Use a dry, soft cloth to clean the exterior of the device. Do not use liquid cleaners or aerosols.
- **Firmware Updates:** Periodically check the SwitchBot app for available firmware updates to ensure optimal performance and access to new features.
- **Environmental Conditions:** Ensure the device is operated within its specified temperature and humidity ranges to prevent damage.

## 7. TROUBLESHOOTING

If you encounter issues with your SwitchBot Smart Relay Switch 1, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---------|----------------|----------|

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
| Device not responding to app commands. | No power, Wi-Fi/Bluetooth disconnected, app issue. | Check power supply. Verify Wi-Fi/Bluetooth connection in the app. Restart the app. |
| Cannot pair with the app. | Incorrect pairing mode, Wi-Fi signal weak, device too far. | Ensure the device is in pairing mode. Move closer to your router/phone. Check Wi-Fi signal strength. |
| Voice control not working. | Matter controller not set up, incorrect voice command, internet issue. | Verify Matter integration in your smart home platform. Use correct voice commands. Check internet connection. |
| Connected appliance not turning on/off. | Incorrect wiring, faulty appliance, relay issue. | **Disconnect power first.** Recheck wiring according to diagrams. Test the appliance directly. Contact support if the relay is suspected to be faulty. |

*If the problem persists after trying these solutions, please contact SwitchBot customer support.*

## 8. SPECIFICATIONS

| Feature | Detail |
|---------|--------|
| Model Number | W5502300 |
| Product Dimensions | 4.2 x 1.6 x 3.6 cm |
| Item Weight | 112 grams |
| Rated Current | 16 Ampere |
| Contact Type | Normally Open |
| Mounting Type | Through Hole Mount |
| Operating Mode | Automatic |
| Connectivity | Wi-Fi (2.4GHz), Bluetooth, Matter |
| Compatibility | Alexa, Apple Home, Google Home, SmartThings |
| Safety Features | V0 Flame-retardant body, Over-temperature protection, Power-off memory |

## 9. WARRANTY AND SUPPORT

SwitchBot products are designed for reliability and performance. For warranty information, please refer to the warranty card included with your product or visit the official SwitchBot website.

For technical support, troubleshooting assistance, or any questions regarding your SwitchBot Smart Relay Switch 1, please contact SwitchBot customer service:

- **Online Support:** Visit the SwitchBot Support Page
- **Email:** Refer to your product packaging or the SwitchBot website for the latest contact email.

*Please have your product model number (W5502300) and purchase details ready when contacting support.*