

Tuya JGTY02H

Tuya 2-Channel Wireless Relay Module (Model JGTY02H) User Manual

Smart Home Automation with Wi-Fi, Bluetooth, and RF Control

1. INTRODUCTION

This manual provides detailed instructions for the installation, configuration, and operation of the Tuya 2-Channel Wireless Relay Module (Model JGTY02H). This smart switch module enables remote control of two independent electrical devices or appliances via Wi-Fi, Bluetooth, and 433MHz RF. It supports integration with the Smart Life/Tuya app, as well as voice control through Amazon Alexa and Google Home.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x Tuya 2-Channel Wireless Smart Home Switch Module
- 1 x Instruction Manual



Image: The Tuya 2-Channel Wireless Relay Module shown alongside its retail packaging and included instruction manual.

3. PRODUCT SPECIFICATIONS

Model Number	JGTY02H
Working Voltage	AC/DC 7-32V
Power Consumption	<1W (Quiescent current: 80mA)
Max. Current	10A per channel
Max. Voltage	250V
Wireless Connectivity	Wi-Fi (IEEE 802.11 b/g/n), Bluetooth, 433MHz RF
Operating Temperature	-40°C to 70°C (-40°F to 158°F)
Operating Humidity	40% to 80% RH
Product Dimensions	Approximately 5 x 2 x 1 inches
Mounting Type	Wall Mount
Contact Material	Brass
Contact Type	Normally Open (NO)

4. PRODUCT OVERVIEW

Familiarize yourself with the components and indicators of the relay module.



Image: Top view of the relay module, highlighting input and output terminals, reset button, manual operation buttons for R1 and R2, and status indicators.

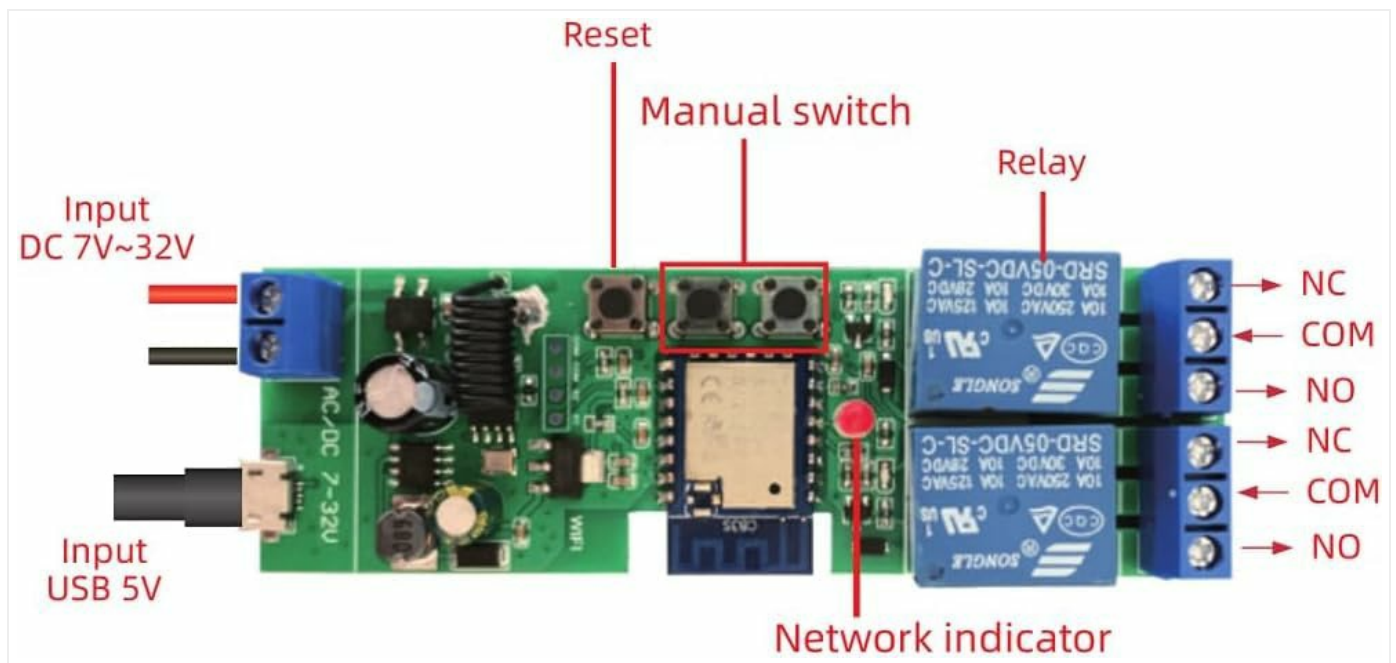


Image: Detailed view of the internal circuit board, showing the reset button, manual switches, relays, network indicator, and input terminals for DC 7-32V and USB 5V.

- **Input Terminals:** For power supply (DC 7-32V or USB 5V).
- **Reset Button:** Used for pairing and resetting the device.
- **Manual Switches (R1, R2):** Allow manual control of each relay channel.
- **Relays:** Two independent relays for controlling connected devices.
- **Network Indicator:** LED light indicating network status.
- **Output Terminals (NC, COM, NO):** Normally Closed, Common, and Normally Open contacts for each relay.

5. SETUP AND INSTALLATION

5.1 Wiring Instructions

Ensure power is disconnected before performing any wiring. Refer to the diagrams below for common wiring configurations.

5.1.1 General Wiring Diagram (DC/AC 7-32V Input)



Works with
Smart Life



Works with
Tuya

2.4G WIFI+433RF

Works with
Google Assistant

Works with
Amazon alexa

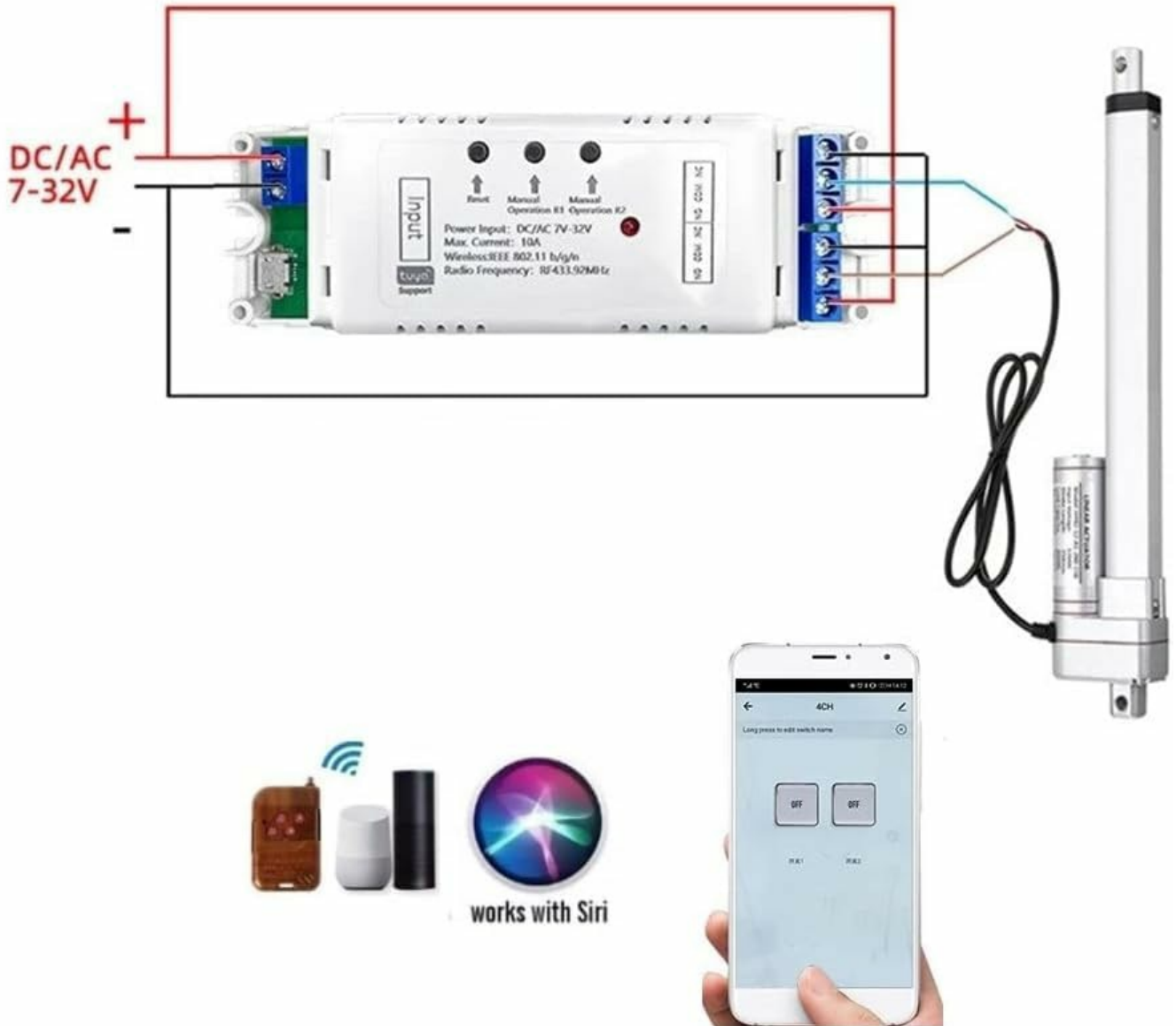


Image: This diagram illustrates connecting the relay module to a DC/AC 7-32V power source and controlling a linear actuator. The module supports both Smart Life/Tuya app control, 2.4G Wi-Fi, 433MHz RF, and voice control via Alexa and Google Assistant.

5.1.2 Automating a DC Motor

To automate a DC motor, connect the motor to the relay outputs as shown. The module's interlock mode can be used for directional control.

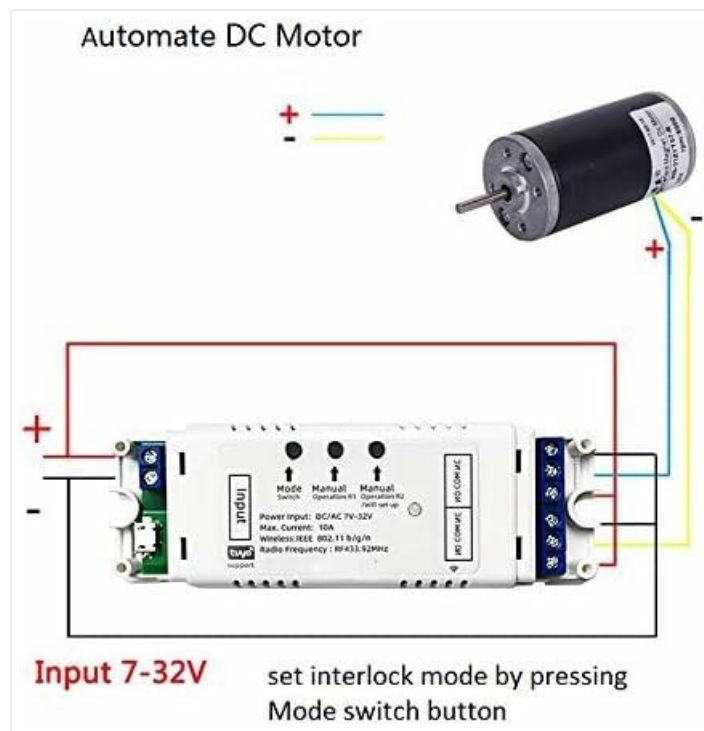


Image: Wiring diagram demonstrating how to connect a DC motor to the relay module. The input power for the module is 7-32V. Interlock mode can be configured by pressing the mode switch button.

5.1.3 Wiring for a 3-Wire AC Motor (e.g., Shutter/Curtain)

For controlling 3-wire AC motors, such as those found in electric shutters or curtains, follow this wiring configuration. Ensure the interlock mode is set in the Tuya Smart app.

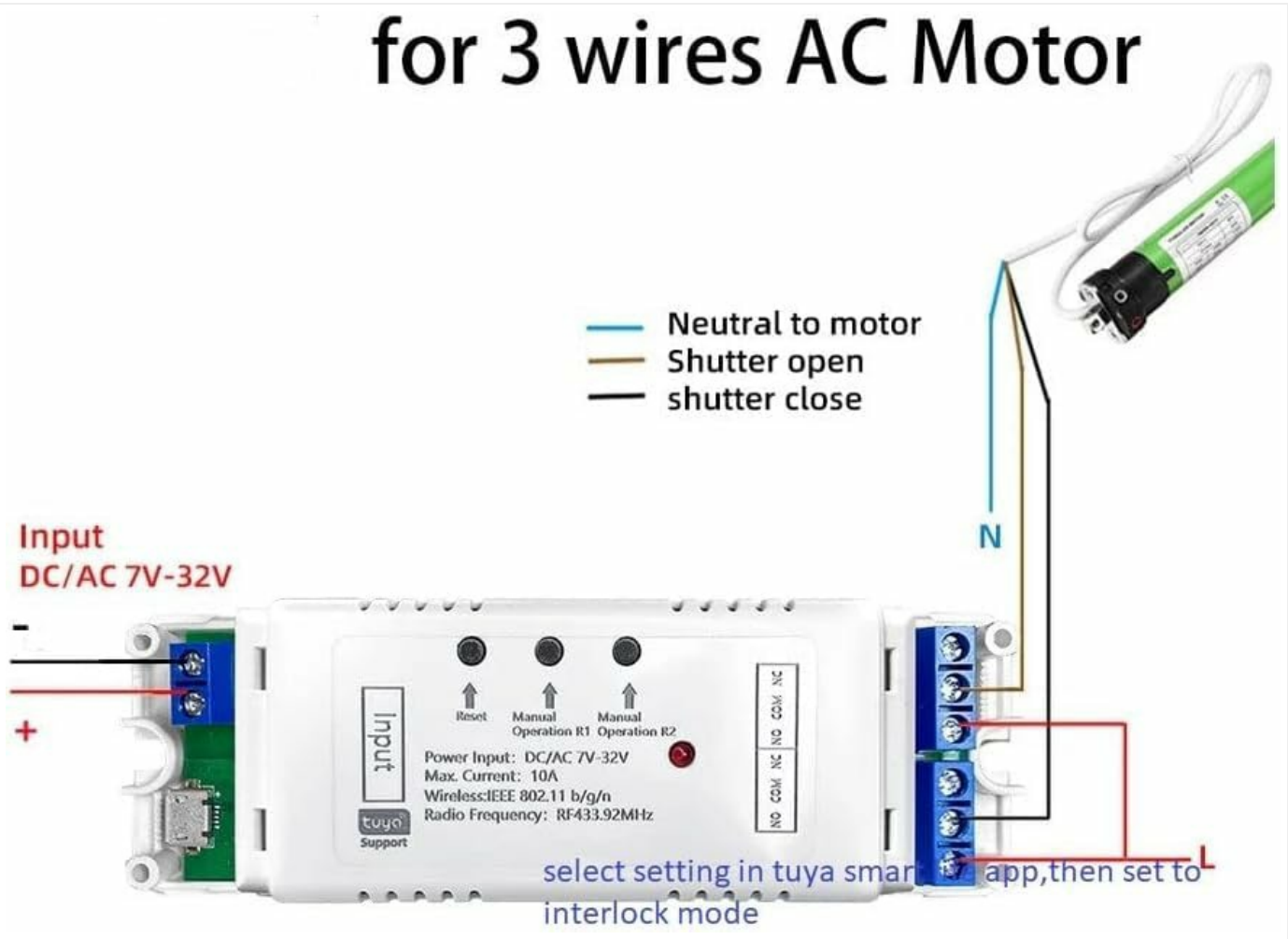


Image: Wiring diagram for connecting a 3-wire AC motor (like a shutter motor) to the relay module. The input power is DC/AC 7-32V. The

neutral wire, shutter open, and shutter close wires are indicated. Interlock mode should be selected and set in the Tuya Smart app.

5.2 App Pairing (Smart Life/Tuya App)

1. **Download the App:** Download and install the "Smart Life" or "Tuya Smart" app from your mobile device's app store (available for iOS and Android).
2. **Register/Log In:** Create an account or log in to your existing account.
3. **Power On:** Connect the relay module to its power supply (DC 7-32V).
4. **Enter Pairing Mode:** Press and hold the "Reset" button on the module until the network indicator LED starts blinking rapidly. This indicates it's in pairing mode.
5. **Add Device:** Open the Smart Life/Tuya app. The app should automatically discover the device via Bluetooth. If not, tap the "+" icon in the top right corner, then select "Add Device" and choose "Auto Scan" or manually select "Switch (Wi-Fi)".
6. **Connect to Wi-Fi:** Follow the in-app instructions to connect the module to your 2.4GHz Wi-Fi network. Enter your Wi-Fi password when prompted.
7. **Device Renaming:** Once successfully added, you can rename the device and each individual channel within the app for easier identification.

Note: Even if the relay module loses Wi-Fi connection after initial setup, you can still control it via Bluetooth using your phone within range.

6. OPERATING MODES

The Tuya 2-Channel Wireless Relay Module supports various operating modes configurable through the Smart Life/Tuya app:

- **Momentary (Inching) Function:**

When activated, the relay will turn on for a set duration (default 1 second) and then automatically turn off. This is ideal for applications like garage door openers. The inching time can be adjusted from 1 second to 1 hour within the app.

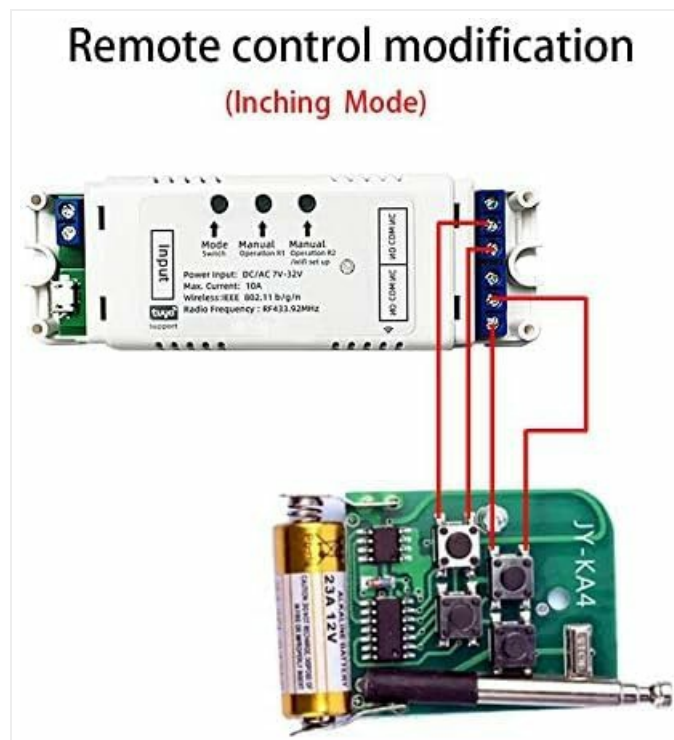


Image: This diagram illustrates how to modify a remote control for use with the relay module in inching mode, often used for momentary actions like opening a garage door.

- **Latching (Self-Locking) Mode:**

In this mode, each relay acts as a standard on/off switch. Pressing the button (physical or in-app) toggles the relay's state (on or off). This allows independent control of two connected devices.

- **Interlock Mode:**

This mode ensures that only one relay can be active at a time. When one relay is turned on, the other is automatically turned off. This is suitable for applications requiring directional control, such as motor control for shutters or gates, preventing simultaneous activation in opposing directions.

6.1 Scheduling and Timers

The app allows you to set up to 8 time schedules for automatic control. You can create single, repeat, or countdown timers to turn devices on or off at specified times. This feature is useful for automating daily routines or security lighting.



Image: A smartphone screen displaying the scheduling interface within the Smart Life/Tuya app, demonstrating how to set up automated control for devices like garage doors. The image also shows a house with two garage doors, implying individual control.

7. SMART HOME INTEGRATION (VOICE CONTROL)

The Tuya 2-Channel Wireless Relay Module is compatible with Amazon Alexa and Google Home for convenient voice control.

7.1 Connecting to Amazon Alexa

1. Open the Amazon Alexa app.
2. Go to "Skills & Games" and search for "Smart Life" or "Tuya Smart".
3. Enable the skill and link your Smart Life/Tuya account using your app credentials.
4. Discover devices: Alexa will automatically discover your connected relay module. If not, say "Alexa, discover my devices" or manually initiate discovery in the Alexa app.
5. You can now control your devices using voice commands, e.g., "Alexa, turn on the light" or "Alexa, turn on Garage door."

7.2 Connecting to Google Home

1. Open the Google Home app.
2. Tap the "+" icon, then "Set up device" > "Works with Google".
3. Search for "Smart Life" or "Tuya Smart".
4. Link your Smart Life/Tuya account using your app credentials.

5. Your devices will be synchronized. You can now control them with voice commands, e.g., "Hey Google, turn off the bedroom light."

8. MAINTENANCE

- Keep the module in a dry environment, away from moisture and extreme temperatures.
- Do not expose the module to direct sunlight or corrosive substances.
- Clean the exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- Regularly check wiring connections to ensure they are secure.
- Ensure the firmware is updated through the Smart Life/Tuya app for optimal performance and security.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Module not powering on.	Incorrect power supply voltage or loose connection.	Verify the power supply is within AC/DC 7-32V. Check all wiring connections for security.
Cannot pair with Smart Life/Tuya app.	Module not in pairing mode; incorrect Wi-Fi password; 5GHz Wi-Fi network; weak Wi-Fi signal.	Ensure the network indicator is blinking rapidly. Confirm your Wi-Fi network is 2.4GHz. Re-enter Wi-Fi password carefully. Move the module closer to your Wi-Fi router. Try resetting the module and re-pairing.
Voice control not working.	Skill not enabled; account not linked; device not discovered by Alexa/Google Home.	Ensure the "Smart Life" or "Tuya Smart" skill is enabled and your account is linked in the Alexa/Google Home app. Ask Alexa/Google to discover devices again. Check device names for clarity.
Relay not responding to app commands.	No Wi-Fi connection; app issue; module malfunction.	Check Wi-Fi connectivity. Restart the app. Power cycle the relay module. If Bluetooth control works, the issue might be with Wi-Fi.


10. WARRANTY AND SUPPORT


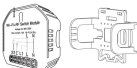
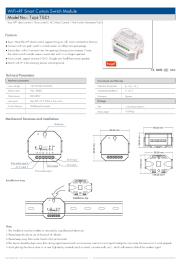

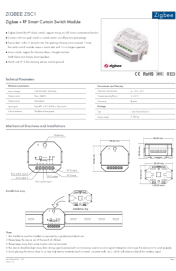
This product is manufactured by QIANYI. For warranty information and technical support, please refer to the documentation provided with your purchase or contact your retailer. Typically, electronic products come with a standard manufacturer's warranty against defects in materials and workmanship for a period of one year from the date of purchase.

For further assistance, please consult the Smart Life/Tuya app's help section or visit the official Tuya Smart website for FAQs and support resources.



Related Documents - JGTY02H

	Three Mode WiFi Switch TYWB 2CH 7-32V RF User Guide and Setup Comprehensive user guide for the Tuya Smart Three Mode WiFi Switch (Model: TYWB 2CH 7-32V RF). Learn how to connect, add devices via the Tuya app, configure functions, pair RF remotes, and troubleshoot common issues. Includes parameters and setup checklist.
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 <p>Self-locking, interlocking, jog (without self-locking)</p>	<p>Zigbee Smart Switch Modules: Features, Modes, and Control Options</p> <p>Explore the features of Zigbee smart switches, including self-locking, interlock, and jog modes. Learn about voice control with Alexa and Google Assistant, app remote control via Tuya and eWeLink, timer schedules, and wiring diagrams for various applications.</p>
<p>Wi-Fi + RF Switch Module</p>  <p>MS-104 User Manual • Ustawieniaj manual</p>	<p>Wi-Fi + RF Switch Module MS-104: Smart Home Control</p> <p>Discover the MS-104 Wi-Fi + RF Switch Module for smart home automation. Control lights and appliances remotely via app or voice commands. Features dual connectivity, easy installation, and broad compatibility.</p>
	<p>Tuya TSC1 WiFi+RF Smart Curtain Switch Module User Manual</p> <p>User manual for the Tuya TSC1 WiFi+RF Smart Curtain Switch Module, detailing features, technical specifications, installation, wiring diagrams, system integration, and Tuya/Smart Life app usage for smart home automation.</p>
	<p>AHS Smart Relay User Guide - Setup, Pairing, and Troubleshooting</p> <p>Comprehensive user guide for the AHS Smart Relay (TYWR 7-32V RF), detailing setup, app pairing with Tuya Smart, remote control configuration, and troubleshooting tips for Bluetooth and Wi-Fi connectivity.</p>
	<p>Zigbee + RF Smart Curtain Switch Module ZSC1 User Manual</p> <p>Comprehensive user manual for the Zigbee + RF Smart Curtain Switch Module ZSC1. Learn about installation, wiring, app control via Tuya/Smart Life, voice assistant integration, and RF remote pairing for smart home automation.</p>