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## TYZG-002RF

# Generic Zigbee Smart Switch Module (TYZG-002RF) 85-250V User Manual

Model: TYZG-002RF | Brand: Generic

## INTRODUCTION

The Generic Zigbee Smart Switch Module (TYZG-002RF) is a 1-channel smart relay switch designed for home automation. It operates with AC 85-250V or USB 5V power input and is compatible with Zigbee gateways, enabling control via mobile applications and voice assistants like Amazon Alexa and Google Home. This module supports various working modes including interlock, jog (momentary), and self-locking, making it suitable for controlling a wide range of household appliances such as lights, electric kettles, garage doors, and access control systems. It also functions as a Zigbee router to extend network stability.

## SAFETY INFORMATION

- The device features a fire-proof and flame-retardant shell for enhanced safety.
- AES-128 encryption is utilized to protect data and device privacy.
- Always ensure power is disconnected before performing any wiring or installation.
- Installation should be performed by a qualified professional if you are unsure about electrical wiring.

## PACKAGE CONTENTS

- 1 x Zigbee Smart Switch Module
- 1 x English Instruction Manual (this document)
- 1 x Product Packaging

## CHECKLIST BEFORE USE

Before proceeding with installation and setup, please ensure the following:

- A 2.4G WiFi network is available (5G networks are not supported).
- An Android device with version 4.0 or above is needed for app control.
- If your wireless router has MAC address filtering enabled, disable this function in the router settings.
- A Zigbee gateway (hub) is mandatory for operation. Ensure the smart switch is placed close to the Zigbee gateway during the pairing process.

## SETUP

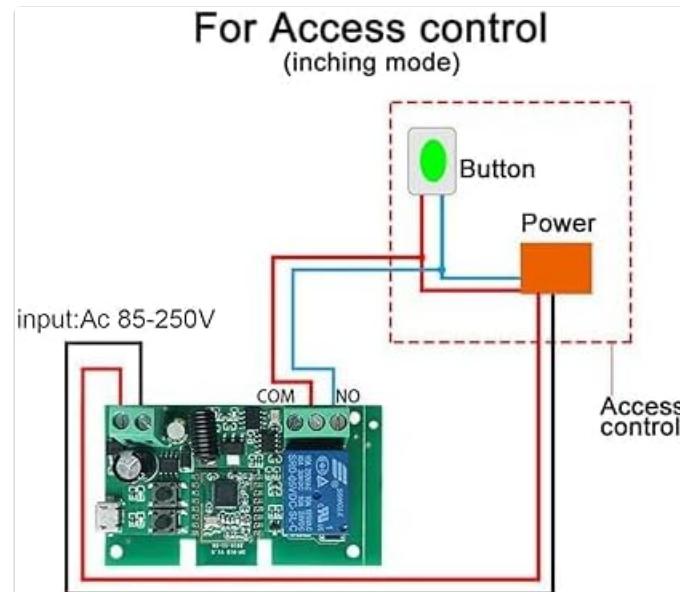
### Pairing with Zigbee Gateway

1. Ensure your Zigbee gateway is powered on and in pairing mode.
2. Power on the smart switch module.
3. Open the Tuya or Smart Life app and follow the in-app instructions to add a new device.
4. The device should be quickly discovered and added to your Zigbee gateway hub.
5. Alternatively, if your Alexa device is connected to a compatible Zigbee hub, you can ask "Alexa, find devices."

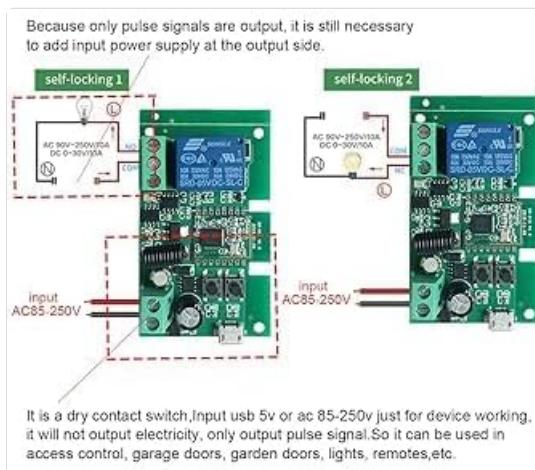


Diagram illustrating a smart home setup with multiple Zigbee smart switch modules connected to a central Tuya Zigbee Hub. This shows how the hub acts as the central point for controlling various appliances and lights, extending the smart home network.

## Wiring Diagrams



Wiring diagram for access control in inching (momentary) mode. This setup shows how to connect the smart switch to an access control system, using the COM and NO terminals for a pulse signal output. The input power is AC 85-250V.



Wiring diagrams for self-locking modes. Two configurations are shown for connecting the smart switch to a load (e.g., a light bulb) in self-locking mode. The device provides a pulse signal output and requires an external power supply for the output side. It supports both AC 85-250V and USB 5V input for device operation.

## Setting Working Modes

The smart switch supports two working modes: Latching and Momentary (Jog) mode. These modes determine how the relay behaves when activated.

- **Momentary Mode:** In this mode, the switch acts like a push button, providing a brief pulse signal. This is suitable for applications such as garage door openers or access control systems that require a momentary contact closure.
- **Latching Mode:** In this mode, the switch acts as a standard ON/OFF switch. Once activated, it remains in that state until another command is received. This is suitable for controlling lights or other appliances that require continuous power.

To switch between these working modes, press the mode button located on the module board. Refer to the product's physical instructions for the exact location of the mode button.

## OPERATING

## App Control

- Manage numerous Zigbee smart switches using the Tuya or Smart Life application on your smartphone.
- The app provides real-time status tracking of your devices, showing their current ON/OFF state.
- Remotely turn on/off household appliances connected to the switch from anywhere with an internet connection.

## Voice Control

The smart switch is compatible with Amazon Alexa and Google Assistant for hands-free voice control.

- Ensure your smart switch is successfully paired with your Zigbee gateway and linked to your Alexa or Google Home account.
- Use simple voice commands such as:
  - "Alexa, turn on the [device name]."
  - "Hey Google, turn off the [device name]."
  - "Alexa, set [device name] to [ON/OFF]."

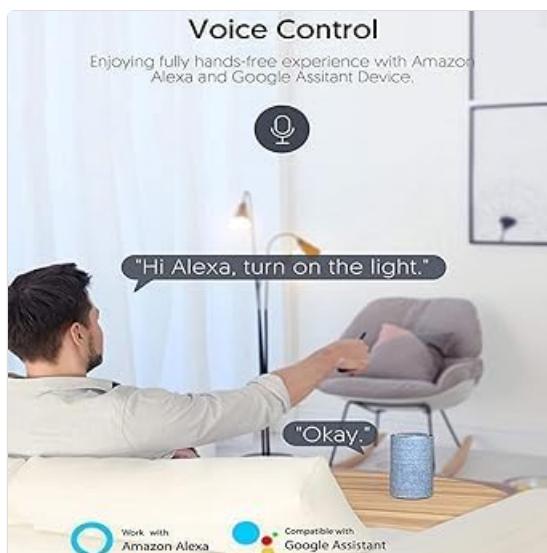


Illustration of voice control with Amazon Alexa. A user is shown giving a command to turn on a light, and Alexa responds.

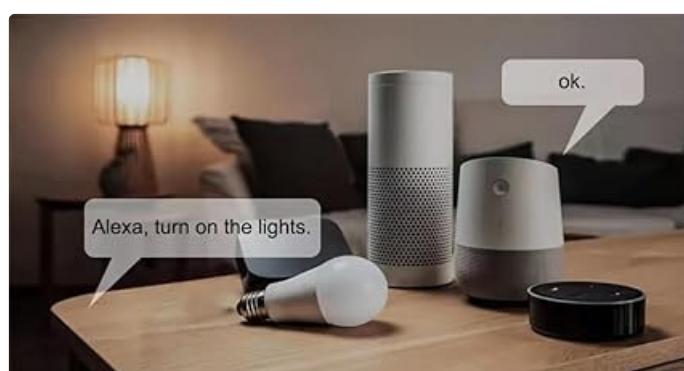


Illustration of voice control compatibility with Amazon Alexa and Google Assistant, showing smart speakers and a light bulb.

## RF Control

The module includes a built-in 433MHz RF receiver and supports learning 433MHz RF fixed codes for remote control. An RF remote control is not included and must be purchased separately.

## Smart Scenes

Create custom smart scenes within the Tuya or Smart Life app to automate appliances based on various conditions such as departure mode, home mode, temperature, humidity, or other environmental factors. This feature allows for intelligent linkage with other Zigbee products to create a fully automated smart home experience.

## Timers

Set up to 8 different timers per device, including schedule, countdown, and cycle timers, to automate device operation according to your daily routine or specific needs.

## Sharing

Share control of the smart switch with family members through the Tuya or Smart Life app, allowing multiple users to manage the connected appliances.

## MAINTENANCE

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- Keep the device clean and free from dust by gently wiping it with a dry cloth.
- Ensure proper ventilation around the module to prevent overheating.
- Avoid exposing the device to extreme temperatures, direct sunlight, or high humidity.
- Do not attempt to disassemble or repair the device yourself, as this may void the warranty and pose safety risks.

## TROUBLESHOOTING

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- **Device not pairing:** Ensure the Zigbee gateway is powered on and in pairing mode. Verify the smart switch is within effective range of the gateway. Confirm that your WiFi network is 2.4Ghz, as 5Ghz is not supported. Reset the device if necessary (refer to product specific reset instructions).
- **No response from device:** Check all power connections to the smart switch. Verify the Zigbee gateway is online and connected to the internet. Ensure the device status in the Tuya/Smart Life app is correct and shows as online.
- **Voice control issues:** Confirm that the smart switch is correctly linked to your Amazon Alexa or Google Home account. Check your internet connection and the functionality of your voice assistant device. Try re-syncing devices through the voice assistant app.
- **Intermittent connection:** Ensure the Zigbee gateway is centrally located and not obstructed by physical barriers. The smart switch can act as a Zigbee router to extend network stability, but optimal placement of the gateway is crucial.

## SPECIFICATIONS

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Model Number	TYZG-002RF
Brand	Generic
Operation Mode	ON-OFF-ON
Current Rating	10 Amps

<b>Operating Voltage</b>	AC 85-250 Volts (also supports USB 5V for device working)
<b>Contact Type</b>	Normally Open
<b>Connector Type</b>	Plug In
<b>Terminal</b>	Through Hole
<b>Item Dimensions (L x W x H)</b>	2.87 x 1.81 x 1.14 inches
<b>Circuit Type</b>	1-way
<b>Actuator Type</b>	Push Button
<b>Contact Material</b>	Metal
<b>International Protection Rating</b>	IP53
<b>Number of Positions</b>	1
<b>Upper Temperature Rating</b>	70 Degrees Celsius
<b>Controller Type</b>	Amazon Alexa, Google Assistant
<b>Control Method</b>	App, RF
<b>Connectivity Protocol</b>	ZigBee
<b>Item Weight</b>	1.6 ounces
<b>Manufacturer</b>	Qianyi Technology.co.ltd

## WARRANTY

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Warranty information for this product is typically provided at the point of purchase or on the manufacturer's official website. Please refer to your retailer or the manufacturer for specific warranty terms and conditions, including coverage duration and claim procedures.

## SUPPORT

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For technical support, troubleshooting assistance, or further inquiries regarding the Generic Zigbee Smart Switch Module, please contact the retailer or manufacturer directly. Contact details can usually be found on the product packaging, the seller's information page, or the manufacturer's official website.