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> ZKIWCTXGQ Smart Relay Module DC5V Pro User Manual

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1 Channel Jog Inching Self-Locking WiFi Wireless Smart Home Switch

1. INTRODUCTION

Thank you for choosing the ZKIWCTXGQ Smart Relay Module DC5V Pro. This module is a versatile 1-channel smart switch designed for home automation, allowing you to control devices remotely via WiFi using a compatible mobile application. It supports jog, inching, and self-locking modes, providing flexible control options for various applications.



Figure 1: ZKIWCTXGQ Smart Relay Module DC5V Pro and its accompanying manual.

2. SAFETY INFORMATION

- Always disconnect power before installation or maintenance.
- Ensure proper wiring according to the diagrams provided. Incorrect wiring can cause damage to the module or connected devices.
- Do not expose the module to moisture, extreme temperatures, or corrosive environments.
- This device operates with electrical current. Exercise caution to prevent electric shock.
- Keep out of reach of children.

3. PRODUCT OVERVIEW

The ZKIWCTXGQ Smart Relay Module DC5V Pro features several key components for its operation and connectivity.

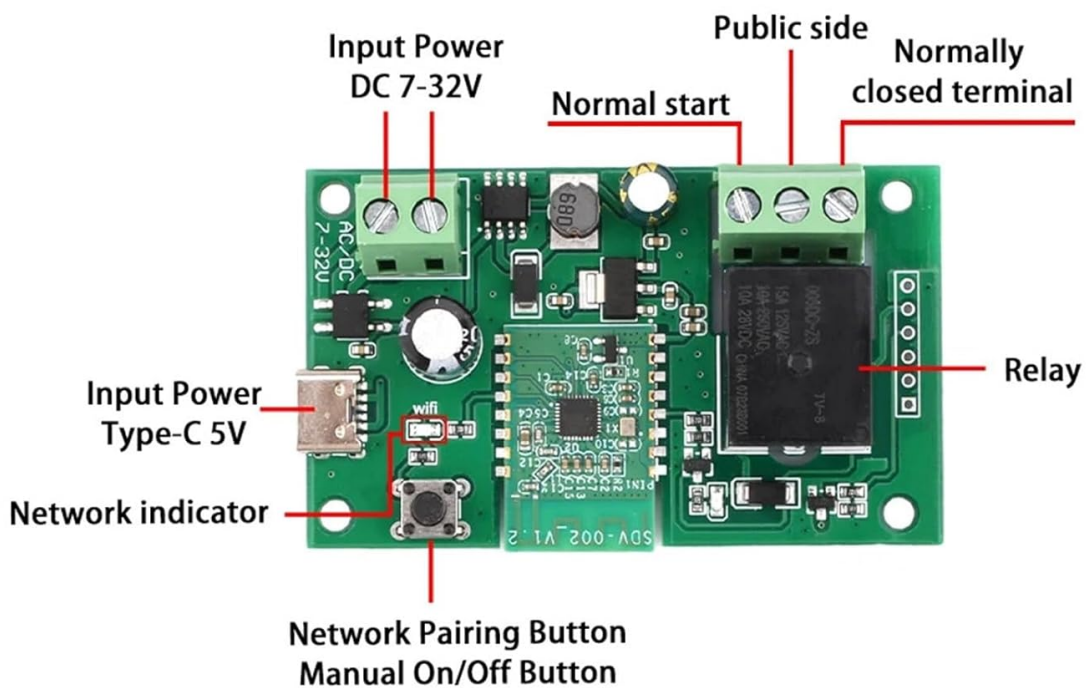


Figure 2: Key components and connection points of the Smart Relay Module.

Component Identification:

- **Input Power DC 7-32V:** Terminal block for primary power input, supporting a wide DC voltage range.
- **Input Power Type-C 5V:** USB Type-C port for alternative 5V DC power input.
- **Network Indicator:** LED light indicating the module's network status (e.g., pairing mode, connected).
- **Network Pairing Button:** Button used to initiate or reset the network pairing process for WiFi connection.
- **Manual On/Off Button:** Button for local, manual control of the relay state.
- **Relay:** The electromechanical switch (005DC-ZS) that controls the connected device.
- **Public Side (COM):** Common terminal for the relay output.
- **Normally Closed Terminal (NC):** Relay output terminal that is connected to COM when the relay is de-energized.
- **Normal Start (NO):** Relay output terminal that is connected to COM when the relay is energized.



Figure 3: Angled view of the Smart Relay Module, showing its compact design.

4. SPECIFICATIONS

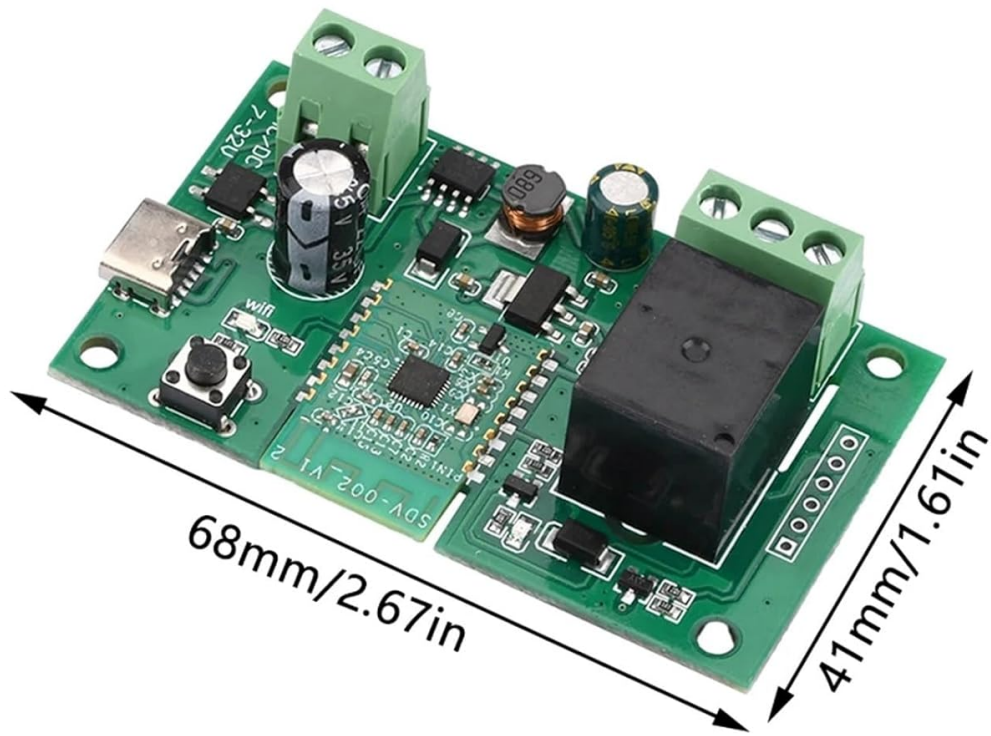


Figure 4: Dimensions of the Smart Relay Module.

Feature	Specification
Model	DC5V Pro
Input Voltage	DC 7-32V or DC 5V (Type-C)
Number of Channels	1
Relay Type	Electromechanical Relay (005DC-ZS)
Relay Contact Rating	15A 125VAC, 10A 250VAC, 10A 28VDC
Wireless Connectivity	WiFi
Control Modes	Jog, Inching, Self-Locking
Dimensions (Approx.)	68mm x 41mm (2.67in x 1.61in)
Manufacturer	ZKIWCTXGQ
ASIN	B0F8YX72TX

5. SETUP AND INSTALLATION

5.1 Powering the Module

The module can be powered by either DC 7-32V via the screw terminals or DC 5V via the Type-C USB port. Choose the appropriate power source for your application.

1. **Using DC 7-32V:** Connect your DC 7-32V power supply to the screw terminals labeled 'Input Power DC 7-32V'. Ensure correct polarity (+ and -).
2. **Using DC 5V (Type-C):** Connect a standard 5V USB power adapter (e.g., phone charger) to the Type-C port.

5.2 Wiring the Load

The relay has three terminals: Common (COM), Normally Closed (NC), and Normally Open (NO). The wiring configuration depends on whether you want the connected device to be ON or OFF when the relay is de-energized.

1. **Normally Open (NO) Configuration:** For devices that should turn ON when the relay is activated. Connect one side of your load (e.g., light bulb) to the power source, and the other side to the NO terminal. Connect the COM terminal to the other side of the power source.
2. **Normally Closed (NC) Configuration:** For devices that should turn OFF when the relay is activated. Connect one side of your load to the power source, and the other side to the NC terminal. Connect the COM terminal to the other side of the power source.

5.3 Network Pairing (WiFi)

To control the module via a mobile application, it must be paired with your WiFi network.

1. **Download App:** Download the compatible smart home application (e.g., Tuya Smart, Smart Life) from your device's app store.
2. **Power On:** Apply power to the module. The Network Indicator LED will start blinking, indicating it's ready for pairing. If not, press and hold the 'Network Pairing Button' for 5-7 seconds until it blinks rapidly.
3. **Add Device:** Open the app, register or log in, and select 'Add Device' or the '+' icon. Follow the in-app instructions to add a 'Switch' or 'Relay' device.
4. **Connect to WiFi:** Enter your WiFi network name (SSID) and password when prompted. Ensure your phone is connected to a 2.4GHz WiFi network.
5. **Confirmation:** Once connected, the Network Indicator LED will stop blinking and remain solid, and the device will appear in your app.

6. OPERATING MODES

The Smart Relay Module supports three primary operating modes, configurable via the mobile application:

- **Jog Mode (Momentary):** In this mode, the relay activates only while the control button (physical or in-app) is pressed. Once released, the relay deactivates. This is suitable for applications requiring a brief pulse of power.
- **Inching Mode (Timed Momentary):** Similar to Jog mode, but the relay activates for a preset duration (e.g., 0.5 seconds to 3600 seconds) after the button is pressed, then automatically deactivates. The duration can be configured in the app.
- **Self-Locking Mode (Toggle):** In this mode, each press of the control button toggles the relay's state. One press turns it ON, the next press turns it OFF. This is suitable for standard ON/OFF control of lights

or appliances.

6.1 Manual Operation

The 'Manual On/Off Button' on the module allows for direct control of the relay without the app or network connection. Each press of this button will toggle the relay's state (ON/OFF).

7. MAINTENANCE

- Keep the module clean and free from dust. Use a dry, soft cloth for cleaning.
- Ensure the module is installed in a well-ventilated area to prevent overheating.
- Avoid exposing the module to direct sunlight or extreme temperatures.
- Regularly check wiring connections to ensure they are secure.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Module not powering on	No power supply; Incorrect voltage; Incorrect polarity	Check power connections; Ensure voltage is within 7-32V DC or 5V DC (Type-C); Verify polarity.
Network Indicator not blinking for pairing	Already paired; Not in pairing mode	Check app for existing device; Press and hold 'Network Pairing Button' for 5-7 seconds to enter pairing mode.
Cannot connect to WiFi	Incorrect WiFi password; 5GHz WiFi network; Weak signal	Verify WiFi password; Ensure your router is broadcasting a 2.4GHz network; Move module closer to router.
Relay not activating/deactivating	Incorrect wiring of load; Faulty relay; Incorrect mode setting	Review load wiring (COM, NO, NC); Test relay manually with 'Manual On/Off Button'; Check mode setting in app.
App control unresponsive	No internet connection; Module offline; App issue	Check your internet connection; Verify module's network status (solid LED); Restart app or phone.

9. WARRANTY AND CUSTOMER SUPPORT

This product is covered by a standard manufacturer's warranty. For specific warranty terms, please refer to the purchase documentation or contact your retailer. If you encounter any issues or have questions regarding the ZKIWCTXGQ Smart Relay Module DC5V Pro, please contact the manufacturer or your point of purchase for technical support.

Please have your product model number (DC5V Pro) and ASIN (B0F8YX72TX) ready when contacting support.

