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CENTURY AOKE AKTR68-04B

DC 12V 4-Channel Universal 315MHz Remote Control Switch User Manual

Model: AKTR68-04B

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your DC 12V 4-Channel Universal 315MHz Remote Control Switch. This system is designed for wireless control of various electrical appliances, offering flexibility with multiple operating modes. Please read this manual thoroughly before use to ensure safe and correct operation.



Image: The complete remote control switch kit, including two 4-button transmitters and the receiver module.

Package Contents

- 2 x Remote Transmitters (Model: AK-J027)
- 1 x Receiver Module (Model: AKTR68-04B)
- 1 x User Manual

Specifications

Receiver Specifications (Model: AKTR68-04B)

- **Operating Voltage:** DC12V
- **Quiescent Current:** <6mA
- **Receiver Sensitivity:** >-105dBm
- **Operating Frequency:** 315MHz

- **Output Voltage:** DC and AC (Optional)
- **Output Current:** <8A
- **Maximum Load Current:** 10A
- **Dimensions:** 72 x 52 x 26mm

Transmitter Specifications (Model: AK-J027)

- **Buttons:** 4 Buttons (A, B, C, D)
- **Operating Voltage:** DC6V
- **Operating Frequency:** 315MHz
- **Remote Distance:** 20-50 meters (open area)
- **Operating Current:** 13 mAh
- **Encoding:** Fixed Code / EV1527 Code
- **Dimensions:** 57 x 32 x 11mm

Setup

Learning Method (Pairing Transmitter with Receiver)

1. Connect a DC12V power supply to the receiver module.
2. Press the **LEARN** button on the receiver. The indicator light will turn OFF.
3. Release the **LEARN** button.
4. Press any button (A, B, C, or D) on the remote transmitter.
5. The indicator light on the receiver will flash 3 times, indicating successful learning.

Clearing Method (Resetting Receiver Codes)

1. Connect a DC12V power supply to the receiver module.
2. Press and hold the **LEARN** button on the receiver for approximately 5 seconds.
3. The indicator light will turn ON from OFF.
4. Press any button on the remote transmitter. The relay will not respond. This confirms that all previously learned codes have been successfully cleared.

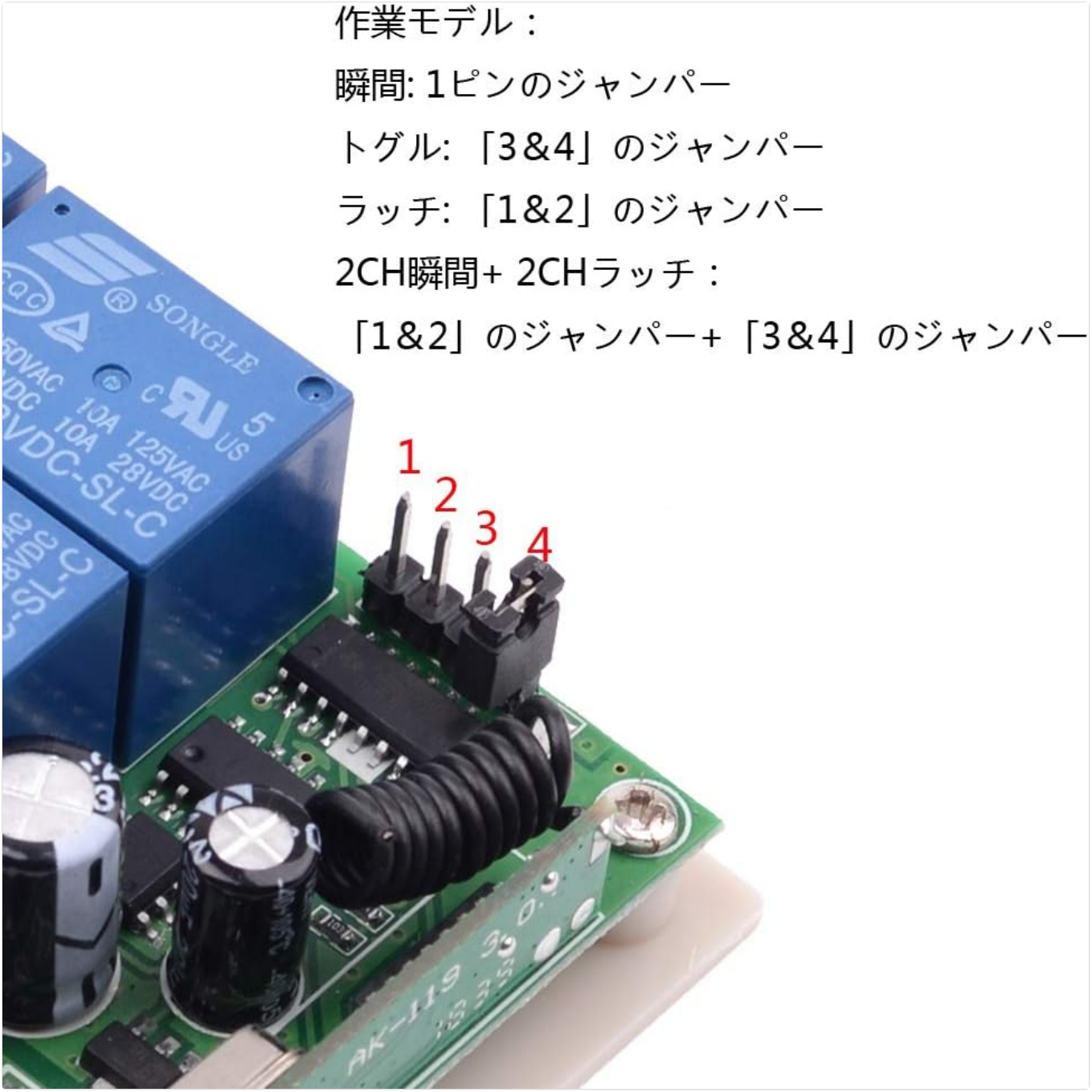


Image: A close-up view of the receiver board, highlighting the 'LEARN' button used for pairing and clearing codes.

Operating Modes

The operating mode of the receiver can be changed by adjusting the jumper pins on the board. Refer to the diagram below for jumper pin locations.

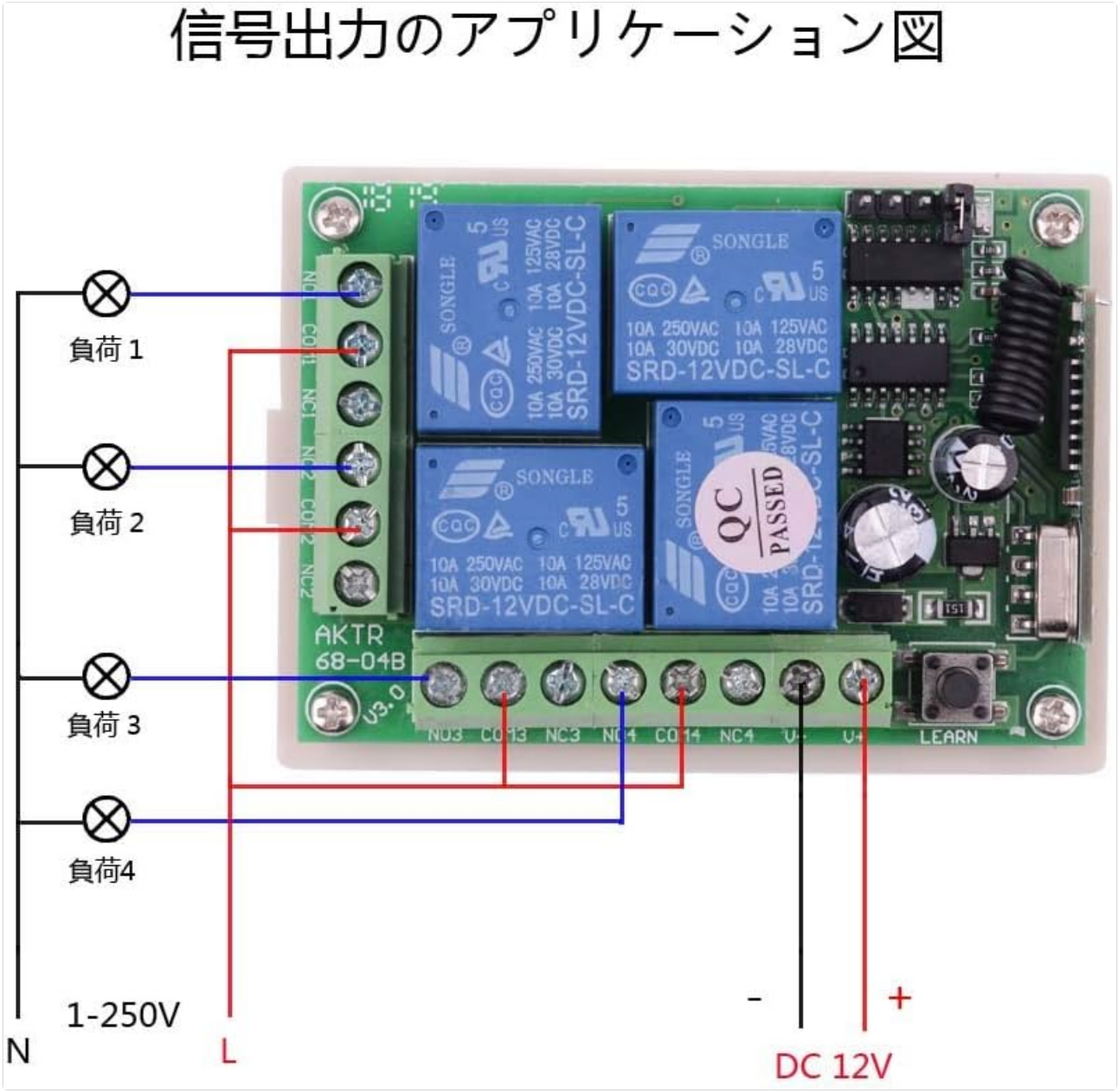


Image: Jumper pin configuration on the receiver board. Pins are numbered 1, 2, 3, 4 from left to right.

1. Momentary Mode

- **Jumper Setting:** No jumper connected to any pins.
- **Operation:** Press and hold a button on the transmitter to turn the relay ON. Release the button to turn the relay OFF.

2. Toggle Mode

- **Jumper Setting:** Connect jumper to pins **3** and **4**.
- **Operation:** Press a button on the transmitter once to turn the relay ON. Press the *same* button again to turn the relay OFF.

3. Latched Mode

- **Jumper Setting:** Connect jumper to pins **1** and **2**.
- **Operation:** Press a button on the transmitter to turn the relay ON. Press *another* button on the transmitter to turn the relay OFF.

4. 2CH Momentary + 2CH Latched Mode

- **Jumper Setting:** Connect jumpers to pins **1 & 2** AND **3 & 4**.
- **Operation:** This mode combines momentary and latched functionality across different channels. Specific channel behavior depends on the internal wiring of the receiver for this combined mode.

Wiring Diagrams

Proper wiring is crucial for the safe and effective operation of the remote control switch. Refer to the diagrams below for typical application scenarios.

DC 12V Appliance Control Diagram

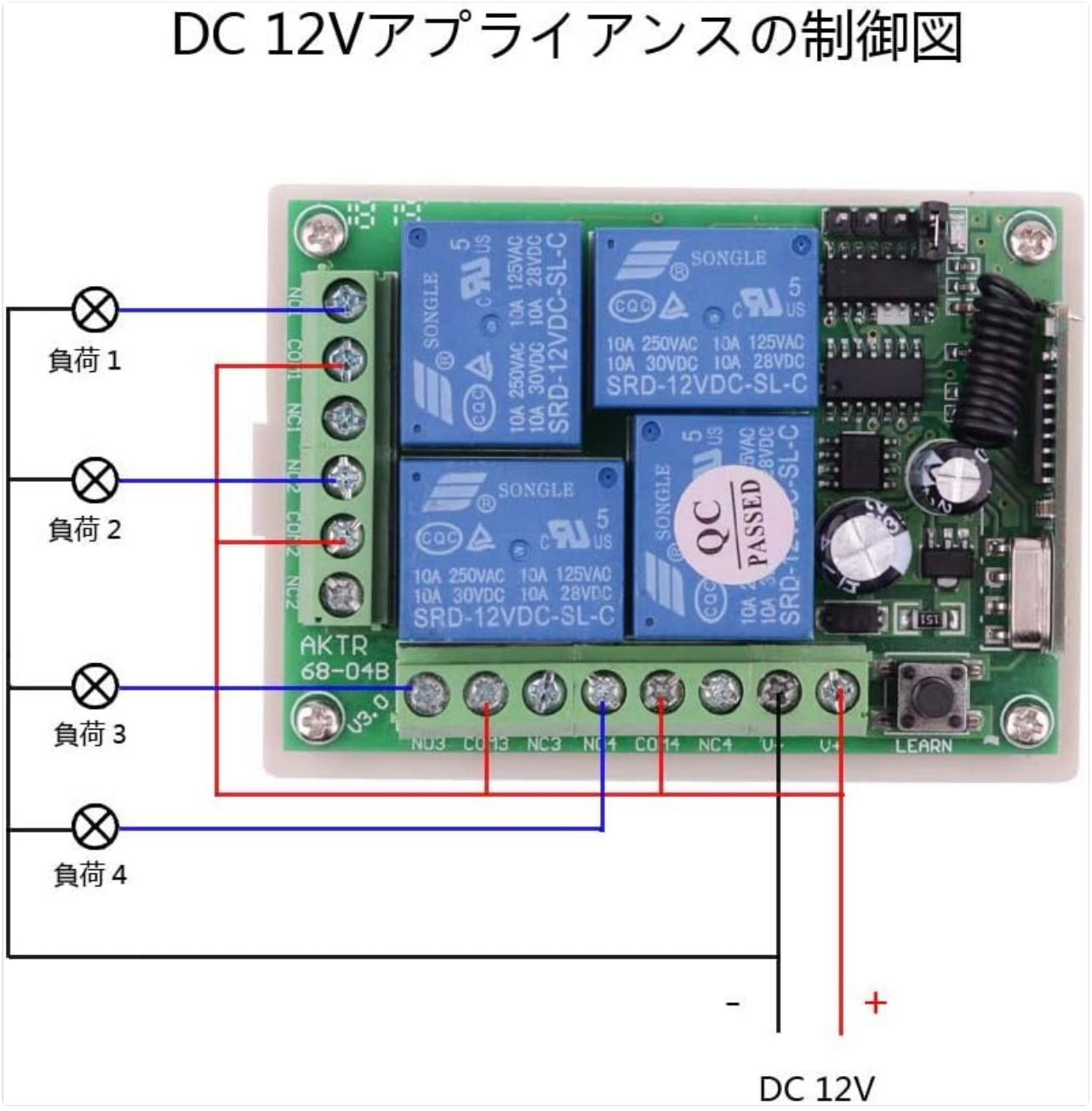


Image: This diagram illustrates how to connect the receiver to control up to four independent DC 12V loads. The positive and negative terminals of the DC 12V power supply are connected to the receiver's input, and each load is connected to its respective relay output (NO, COM, NC terminals).

Signal Output Application Diagram (1-250V)

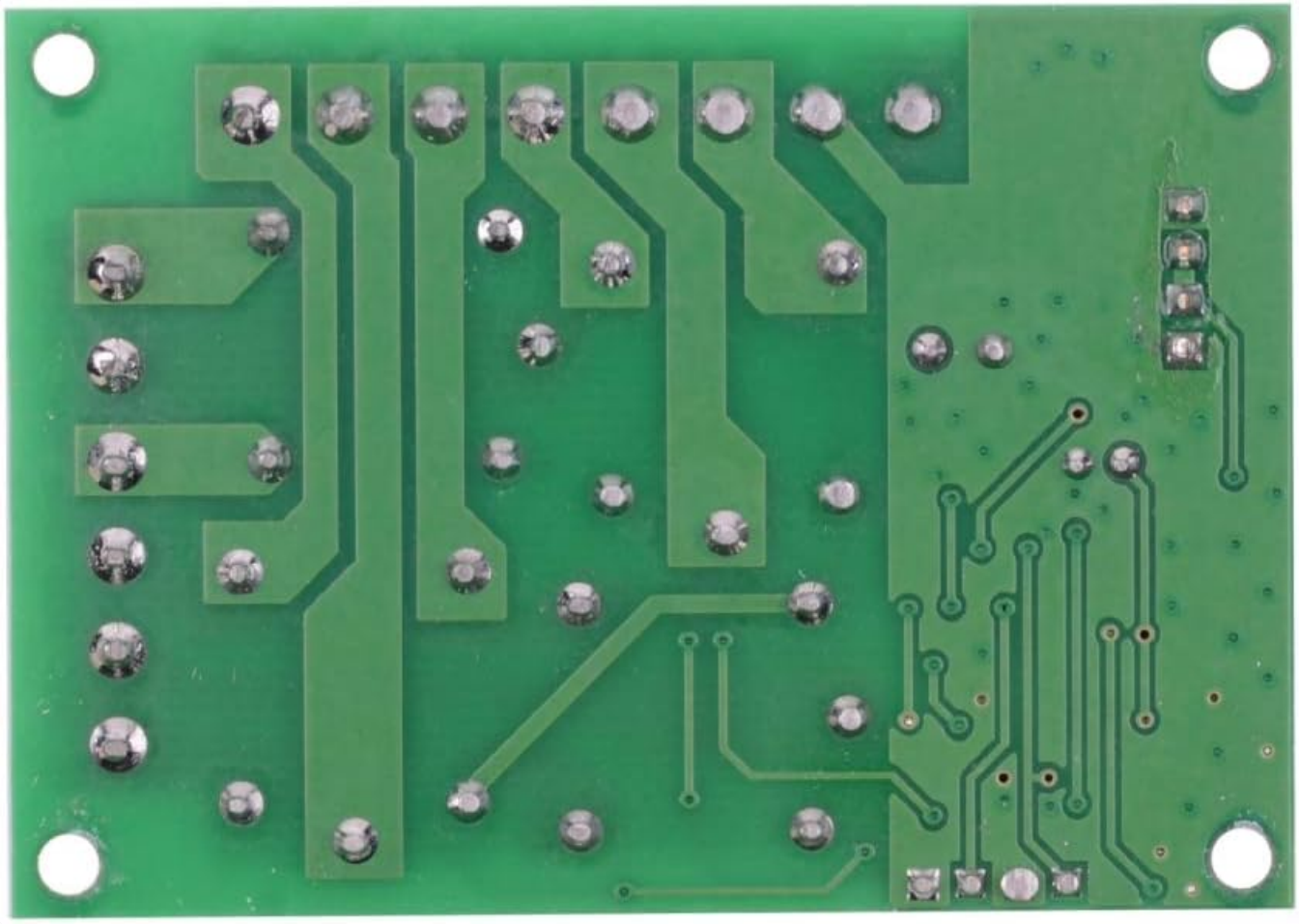


Image: This diagram shows how the receiver can be used to switch higher voltage AC or DC loads (1-250V) by utilizing the relay's dry contact outputs. The receiver itself is powered by DC 12V, while the loads are connected to the relay contacts, allowing for isolation between the control circuit and the load circuit.

Troubleshooting

- **No Response from Receiver:**
  - Ensure the receiver is properly powered (DC12V).
  - Check if the transmitter battery is functional (DC6V).
  - Verify that the transmitter and receiver are paired correctly using the learning method.
  - Ensure the remote distance is within the specified range (20-50m) and there are no significant obstacles.
- **Incorrect Operating Mode:**
  - Review the jumper settings on the receiver board and adjust them according to the desired operating mode (Momentary, Toggle, Latched).
- **Interference:**
  - If experiencing erratic behavior, try clearing all codes and re-pairing the transmitter.
  - Minimize other 315MHz wireless devices in the vicinity if possible.

Maintenance

- **Cleaning:** Use a dry, soft cloth to clean the devices. Do not use harsh chemicals or abrasive cleaners.

- **Battery Replacement:** Replace the transmitter battery (CR2016, 1 piece) when the signal strength weakens or the LED indicator on the transmitter does not light up consistently.
- **Storage:** Store the devices in a cool, dry place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically check wiring connections for any signs of wear or damage.

Warranty and Support

This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the product packaging or contact your point of purchase. For technical support or further assistance, please reach out to the manufacturer or seller through the platform where the product was purchased.
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Details

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