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ZABLL DC 12V 4CH 10A

ZABLL DC 12V 4CH 433Mhz Wireless Remote Control Switch User Manual

Model: DC 12V 4CH 10A

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your ZABLL DC 12V 4CH 433Mhz Wireless Remote Control Switch. This system is designed for wireless control of various household and industrial appliances, offering flexibility and convenience.
Please read this manual thoroughly before installation and operation to ensure proper use and to prevent damage to the device or connected equipment.

Product Overview

The ZABLL DC 12V 4CH 433Mhz Wireless Remote Control Switch system consists of a receiver module and two remote transmitters. It features four channels, allowing for control of up to four separate devices or functions. The receiver supports multiple working modes: Momentary, Toggle, and Latched, as well as a combined 2CH Momentary + 2CH Latched mode.



Image: Top view of the ZABLL DC 12V 4CH 433Mhz Wireless Remote Control Receiver board, showing four blue relays, terminal blocks for connections, and the learning button.

Specifications

Receiver Module:

- **Working Voltage:** DC12V
- **Quiescent Current:** Less than 6mA
- **Working Temperature:** -40°C to +80°C
- **Receiver Sensitivity:** More than -105dBm
- **Working Frequency:** 433MHz
- **Output Voltage:** DC and AC (optional)
- **Output Current:** Less than 8A
- **Max Load Current:** 10A
- **Dimensions:** 7.2 x 5.2 x 2.6 cm (2.83 x 2.05 x 1.02 inches)

Transmitter (Remote Control):

- **Buttons:** 4 Buttons (A, B, C, D)
- **Operating Frequency:** 433MHz
- **Remote Distance:** 20-50 meters (65-164 feet) without obstacle
- **Operating Current:** 13 mAh
- **Encode:** Fixed code / EV1527 code
- **Dimensions:** 5.7 x 3.2 x 1.1 cm (2.24 x 1.26 x 0.43 inches)
- **Battery Type:** CR2016 (Alkaline)

Setup and Wiring

The receiver module is pre-tested and paired with the transmitters before shipping. No initial pairing is required upon receipt. Ensure all power is disconnected before wiring.

Wiring Diagram:

Connect the DC12V power supply to the V+ and V- terminals on the receiver board. Connect your loads (appliances) to the corresponding relay output terminals (NO, COM, NC).

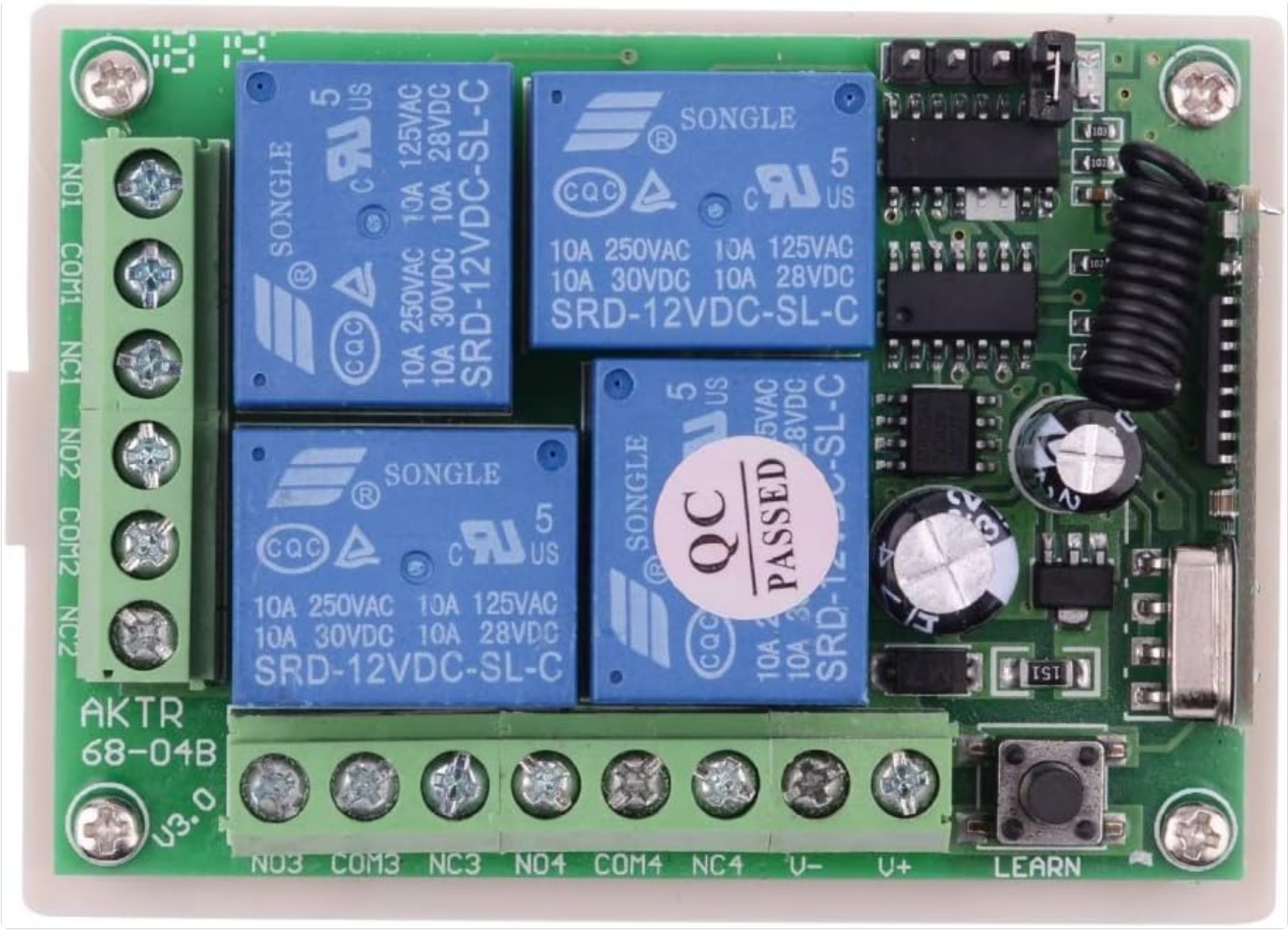


Image: A detailed wiring diagram showing how to connect four loads (lights) to the receiver board's output terminals (NO1, COM1, NC1, NO2, COM2, NC2, NO3, COM3, NC3, NO4, COM4, NC4) and the DC 12V power input (V+, V-).

Each relay has three terminals: Normally Open (NO), Common (COM), and Normally Closed (NC). Choose the appropriate connection based on your application's requirements.

- **NO (Normally Open):** The circuit is open when the relay is off and closes when the relay is activated.
- **COM (Common):** The common terminal for the relay.
- **NC (Normally Closed):** The circuit is closed when the relay is off and opens when the relay is activated.

Operating Modes

The working mode of the receiver can be changed using jumpers on the pins. Ensure power is off before adjusting jumpers.

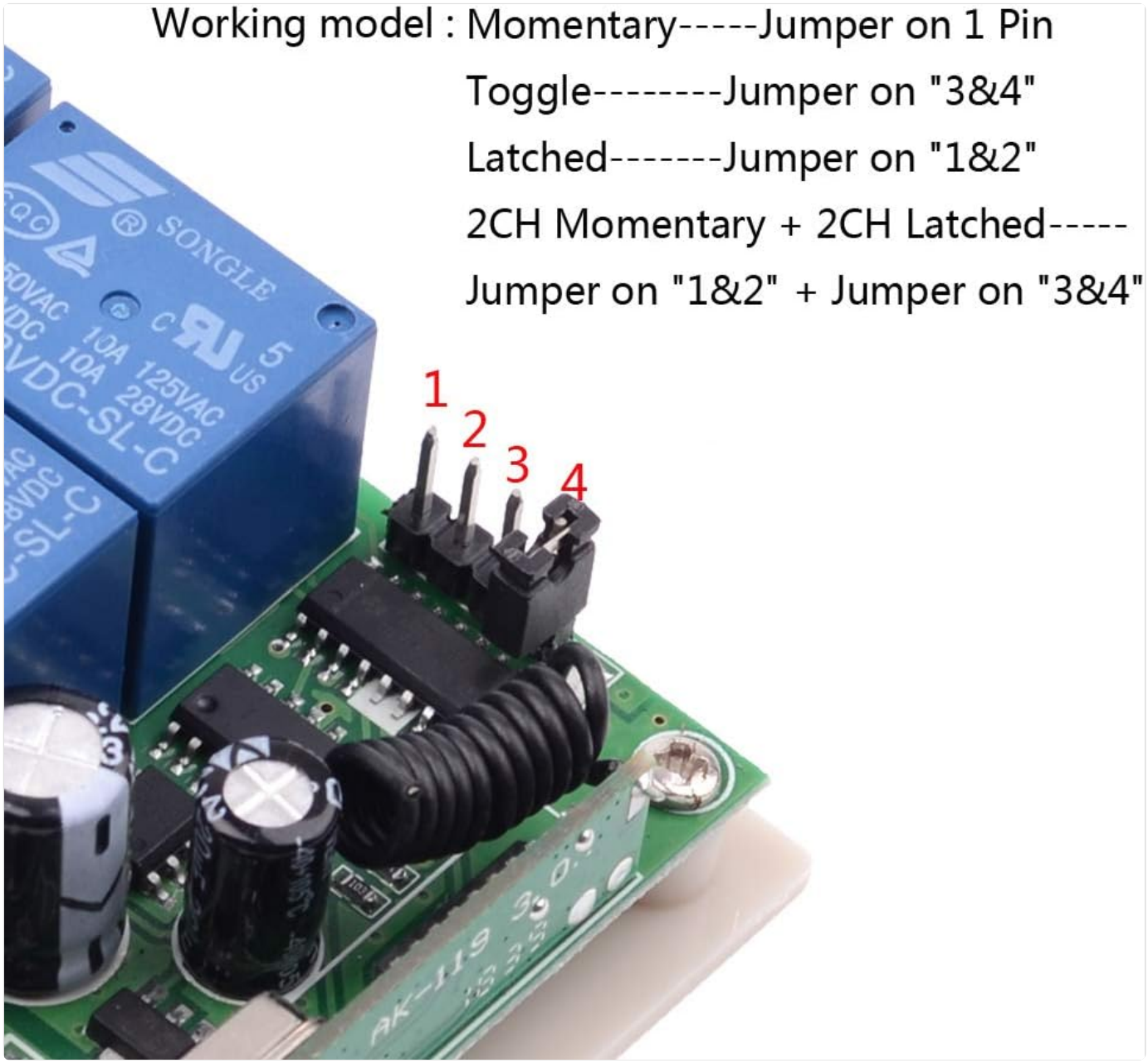


Image: Close-up of the jumper pins on the receiver board, labeled 1, 2, 3, and 4, indicating how to set different operating modes.

1. **Momentary Mode:**

   Jumper Setting: No jumper connects any two pins.

   Operation: Press and hold a remote button to turn the relay ON; release the button to turn the relay OFF.

2. **Toggle Mode:**

Jumper Setting: Jumper connects pin "3" and pin "4".

Operation: Press a remote button once to turn the relay ON; press the same button again to turn the relay OFF.

3. **Latched Mode:**

   Jumper Setting: Jumper connects pin "1" and pin "2".

   Operation: Press one remote button to turn a specific relay ON; press another remote button to turn that relay OFF and activate another (if configured).

4. **2CH Momentary + 2CH Latched Mode:**

   Jumper Setting: Jumper connects "1&2" AND Jumper connects "3&4".

   Operation: Channels 1 and 2 operate in Momentary mode, while Channels 3 and 4 operate in Latched mode.

Learning and Clearing Method

Learning a New Transmitter:

1. Input DC12V power to the receiver module.
2. Press the learning button on the receiver board. The indicator light will turn OFF.
3. Release the learning button.
4. Press any button on the remote transmitter you wish to pair. The indicator light on the receiver will flash three times, indicating successful learning.

Clearing Paired Transmitters:

1. Hold down the learning button on the receiver board for approximately 5 seconds.
2. The indicator light will change from OFF to ON.
3. After clearing, pressing any remote button will not activate the relays, confirming that the codes have been successfully cleared.

Maintenance

- **Cleaning:** Use a dry, soft cloth to clean the receiver and transmitters. Do not use liquid cleaners or solvents.
- **Battery Replacement:** Replace the CR2016 battery in the remote transmitter when the operating range decreases or the indicator light on the remote becomes dim.
- **Environmental Conditions:** Avoid exposing the devices to extreme temperatures, high humidity, or direct water contact.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Receiver does not respond to remote.	◦ No power to receiver. ◦ Remote battery is low or dead. ◦ Remote not paired with receiver. ◦ Out of range.	◦ Check DC12V power connection to receiver. ◦ Replace remote battery (CR2016). ◦ Perform the learning procedure (see "Learning and Clearing Method"). ◦ Move closer to the receiver.
Relay activates but connected device does not work.	◦ Incorrect wiring of the load. ◦ Faulty connected device.	◦ Verify load wiring against the diagram (NO, COM, NC). ◦ Test the connected device independently.
Remote range is shorter than expected.	◦ Obstacles between remote and receiver. ◦ Low remote battery. ◦ Interference from other 433Mhz devices.	◦ Ensure clear line of sight or minimize obstructions. ◦ Replace remote battery. ◦ Relocate receiver or identify/reduce interference sources.

Warranty and Support

ZABLL products are designed for reliability and performance. For warranty information or technical support, please contact your retailer or visit the official ZABLL website. Please have your product model number (DC 12V 4CH 10A) available when seeking support.
For further assistance, please refer to the contact information provided with your purchase or on the product packaging.

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