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› [QIACHIP DC 6V 12V 24V 2 Channel 10A Relay Wireless Remote Control Switch User Manual](#)

QIACHIP KR2402+2KT05

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Model: KR2402+2KT05

1. PRODUCT OVERVIEW

The QIACHIP DC 6V 12V 24V 2 Channel 10A Relay Wireless Remote Control Switch is a versatile RF 433M transmitter and receiver system designed for controlling various electronic devices. It supports Momentary, Toggle, and Latched operating modes, making it suitable for applications such as motor forward and reverse control, garage doors, and curtains. Its wide voltage input (DC 6V~30V) and long-range capability (up to 50 meters in open environments) ensure reliable performance.



Figure 1: QIACHIP 2-Channel Relay Receiver and two 2-button remote controls.

2. PRODUCT FEATURES

- Wide Voltage Input:** The receiver board operates within a DC 6V to 30V range, ensuring broad compatibility.
- Long Range Capability:** Features high receive sensitivity, allowing signals to pass through walls, floors, and doors. The maximum control distance is up to 50 meters in open environments.
- Multiple Working Modes:** Supports Momentary, Toggle, and Latched modes, along with a code clearing function.
- Dual Channel Control:** Two independent relay channels can work together for polarity forward and reverse control (Latched mode) or control different electronic devices separately (Momentary/Toggle modes).
- Memory Capacity:** The receiver can store up to 15 remote controls.
- Broad Application:** Ideal for 12V/24V DC motors, water pumps, LED lamps, telescopic door modifications, electric control locks, access control systems, automotive tail plate modifications, and electric curtain modifications.

3. PACKAGE CONTENTS

The package includes the following components:

- 1 x 2-Channel (2-CH) Receiver Board (KR2402)
- 2 x 2-Button Transmitters (Remote Controls) (2KT05)
- Batteries for transmitters (1 CR2 battery included per transmitter)



Figure 2: Detailed view of the receiver board, remote controls, and included accessories.

4. SETUP AND PAIRING INSTRUCTIONS

This section details how to set up and pair the remote controls with the receiver board for different operating modes. It is crucial to follow these steps carefully for proper functionality.

4.1. Clearing Existing Codes (Reset)

Before setting a new mode or pairing, it is recommended to clear any previously stored codes. This ensures a clean setup.

1. Locate the learning button on the receiver board.
2. Press the learning button 8 times consecutively. The indicator light on the receiver will flash, indicating that all stored codes have been cleared.



Video 1: Demonstrates the setup process for Momentary, Toggle, and Latched modes, including how to reset the receiver. This video shows the physical interaction with the learning button and remote control for each mode.

4.2. Pairing for Momentary Mode

In Momentary mode, the relay remains active only while the remote button is pressed and held. Releasing the button deactivates the relay.

1. Press the learning button on the receiver board 1 time. The indicator light will turn on.
2. Press button "A" on the remote control. Wait approximately 3 seconds.
3. Press button "B" on the remote control. The pairing is successful.

How to get the signal --Set up

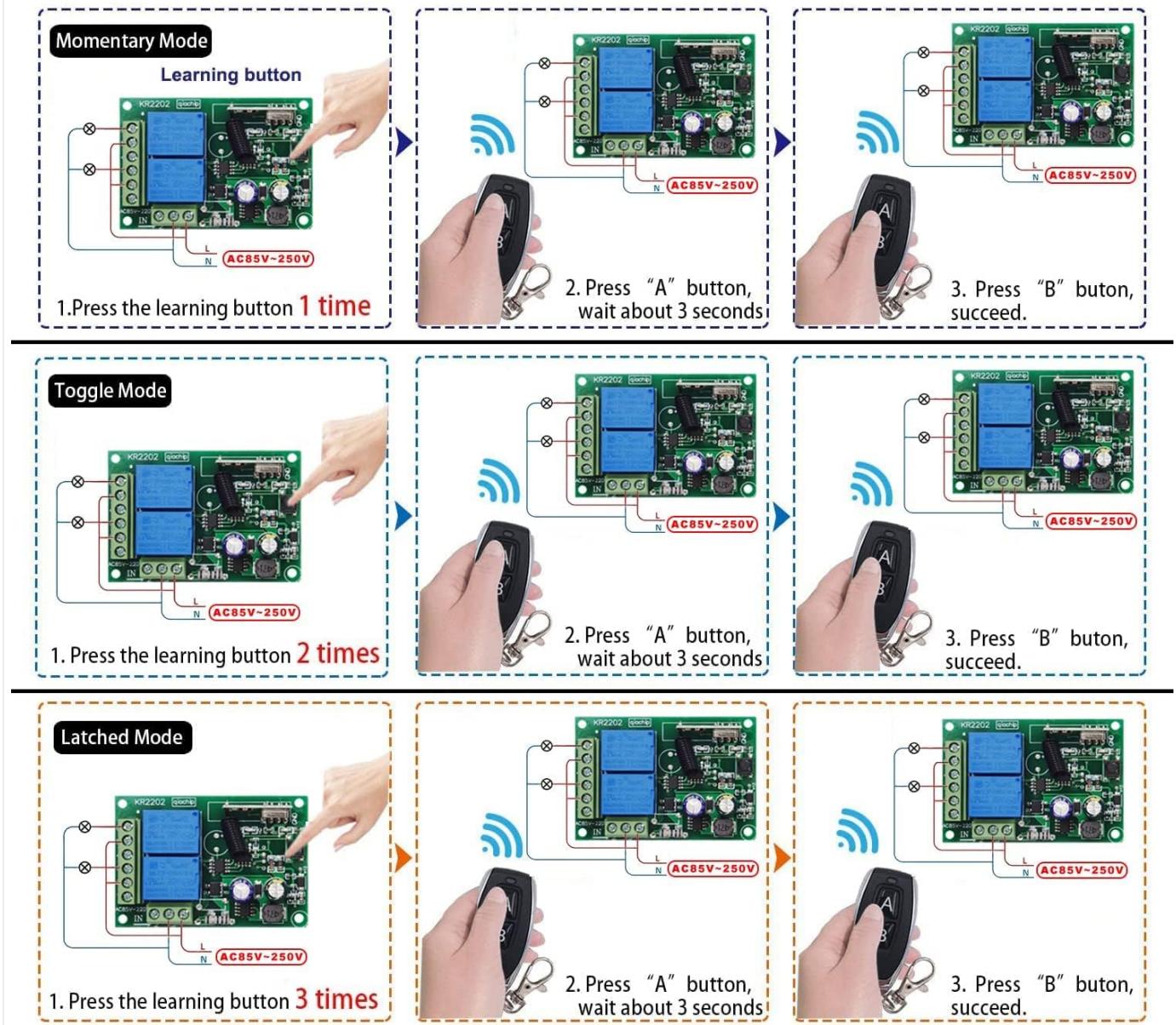


Figure 3: Visual guide for setting up Momentary, Toggle, and Latched modes.

4.3. Pairing for Toggle Mode

In Toggle mode, pressing a button on the remote activates the corresponding relay, and it remains active until the same button is pressed again to deactivate it.

1. Press the learning button on the receiver board 2 times. The indicator light will turn on.
2. Press button "A" on the remote control. Wait approximately 3 seconds.
3. Press button "B" on the remote control. The pairing is successful.

4.4. Pairing for Latched Mode

In Latched mode, pressing button "A" activates Relay 1 and simultaneously deactivates Relay 2 (if active). Pressing button "B" activates Relay 2 and deactivates Relay 1. This mode is commonly used for motor forward/reverse control.

1. Press the learning button on the receiver board 3 times. The indicator light will turn on.
2. Press button "A" on the remote control. Wait approximately 3 seconds.
3. Press button "B" on the remote control. The pairing is successful.

5. OPERATING MODES EXPLAINED

Understanding the different operating modes is key to utilizing the full functionality of the QIACHIP relay switch.

5.1. Momentary Mode

When configured for Momentary mode, the relay will activate only for the duration that its corresponding button on the remote control is pressed. Once the button is released, the relay deactivates. This is suitable for applications requiring temporary activation, such as a momentary door release.

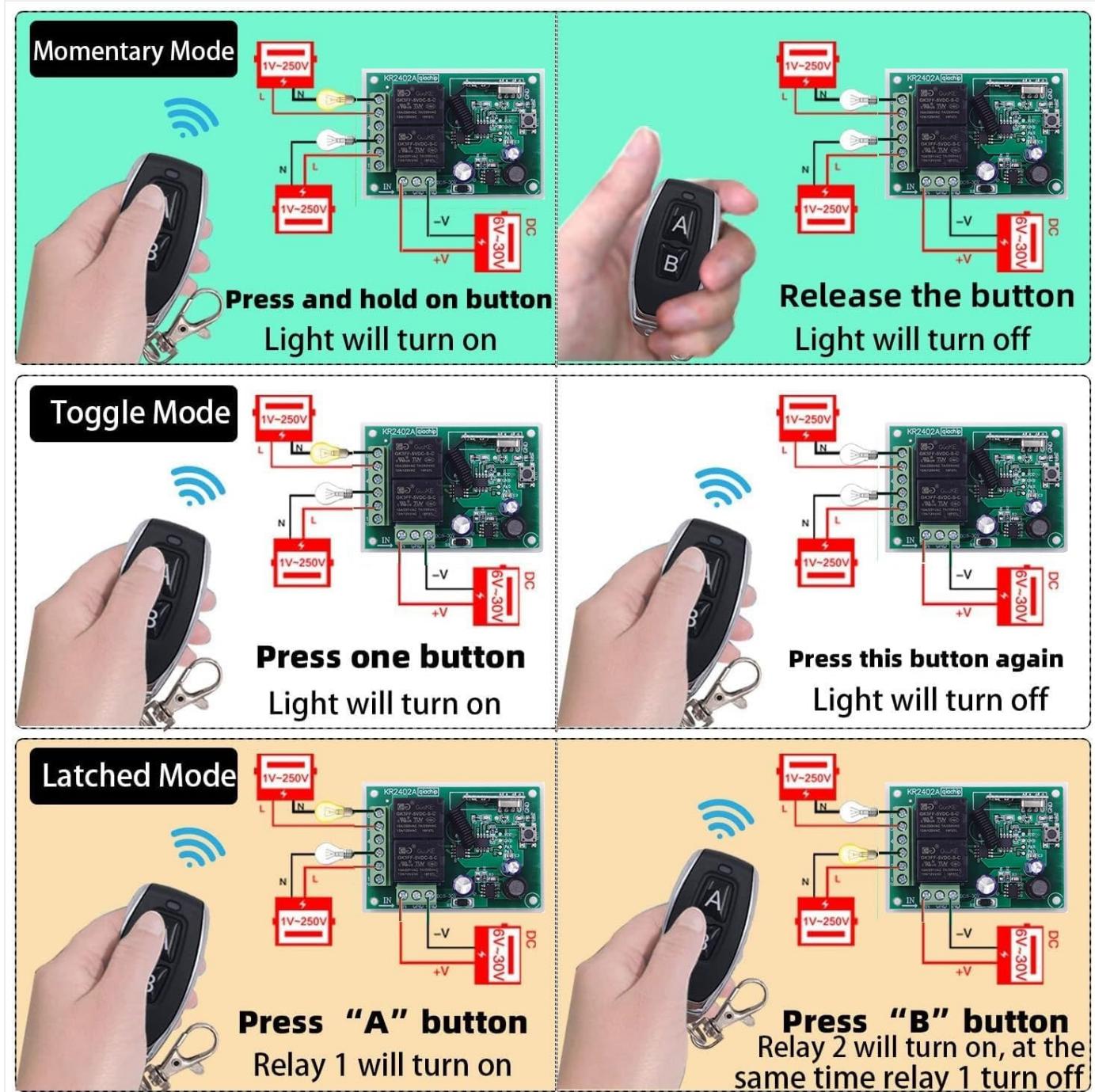


Figure 4: Visual explanation of Momentary, Toggle, and Latched operating modes.

5.2. Toggle Mode

In Toggle mode, a single press of a remote button activates the relay, and it remains active even after the button is released. To deactivate the relay, the same button must be pressed again. This mode is useful for on/off control of lights or other devices.

5.3. Latched Mode

Latched mode provides interlocking control between the two relays. Pressing button "A" activates Relay 1 and simultaneously deactivates Relay 2. Conversely, pressing button "B" activates Relay 2 and deactivates Relay 1. This is ideal for controlling the forward and reverse motion of motors, ensuring only one direction is active at a time.

6. WIRING DIAGRAMS

Correct wiring is essential for safe and proper operation. Always ensure power is disconnected before making any connections.

6.1. Motor Forward and Reverse Wiring

This diagram illustrates how to wire the receiver for controlling a DC motor's forward and reverse movement, typically used in Latched mode.

Motor Forward and Reverse Wiring Diagram

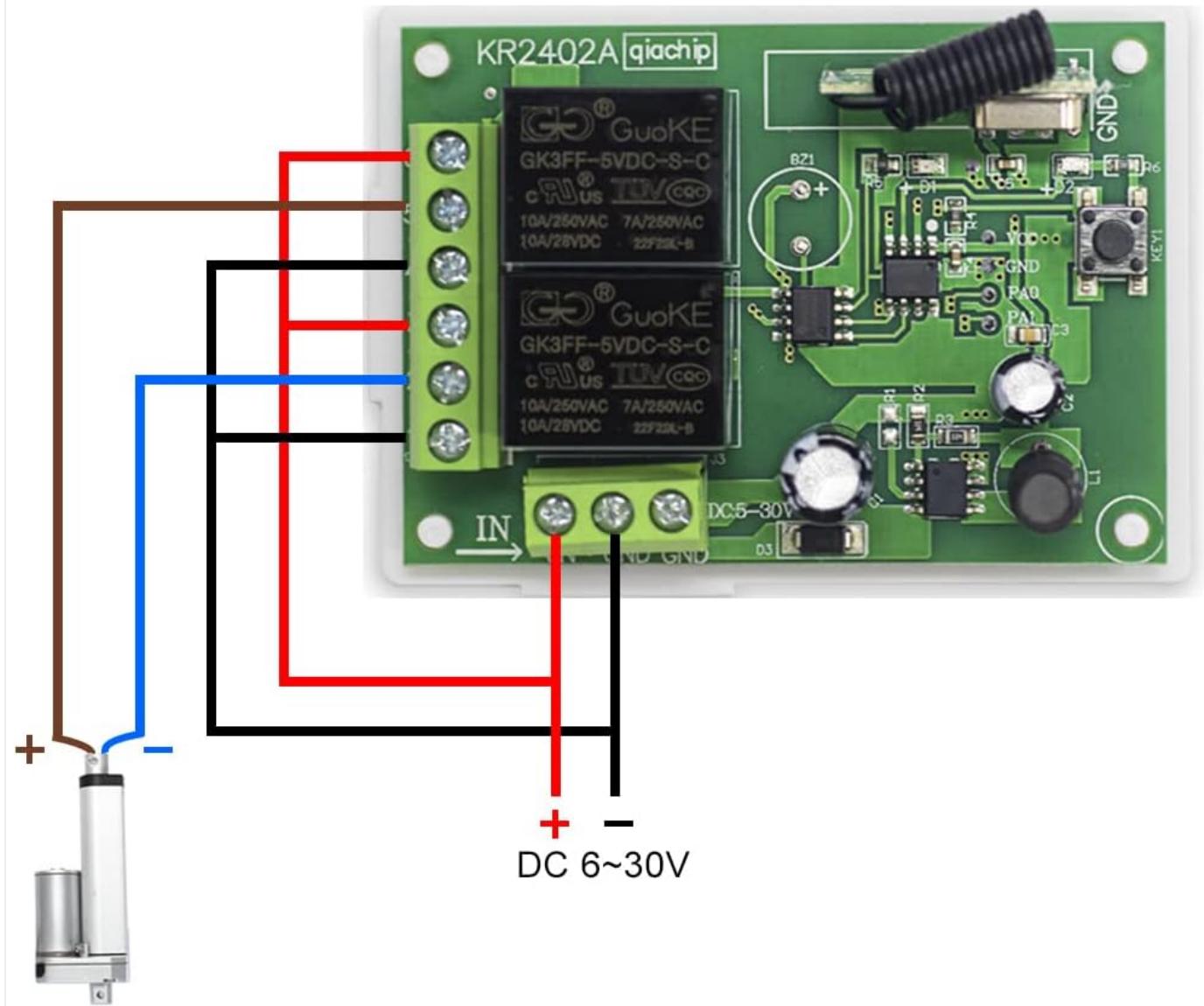


Figure 5: Wiring connections for motor forward and reverse operation. Connect the motor to the NO (Normally Open) and COM (Common) terminals of both relays, and the power supply to the IN and GND terminals.

6.2. External Power Supply Wiring

If an external power supply is required for the motor or other connected device, follow this wiring configuration.

External Power Supply Wiring Diagram

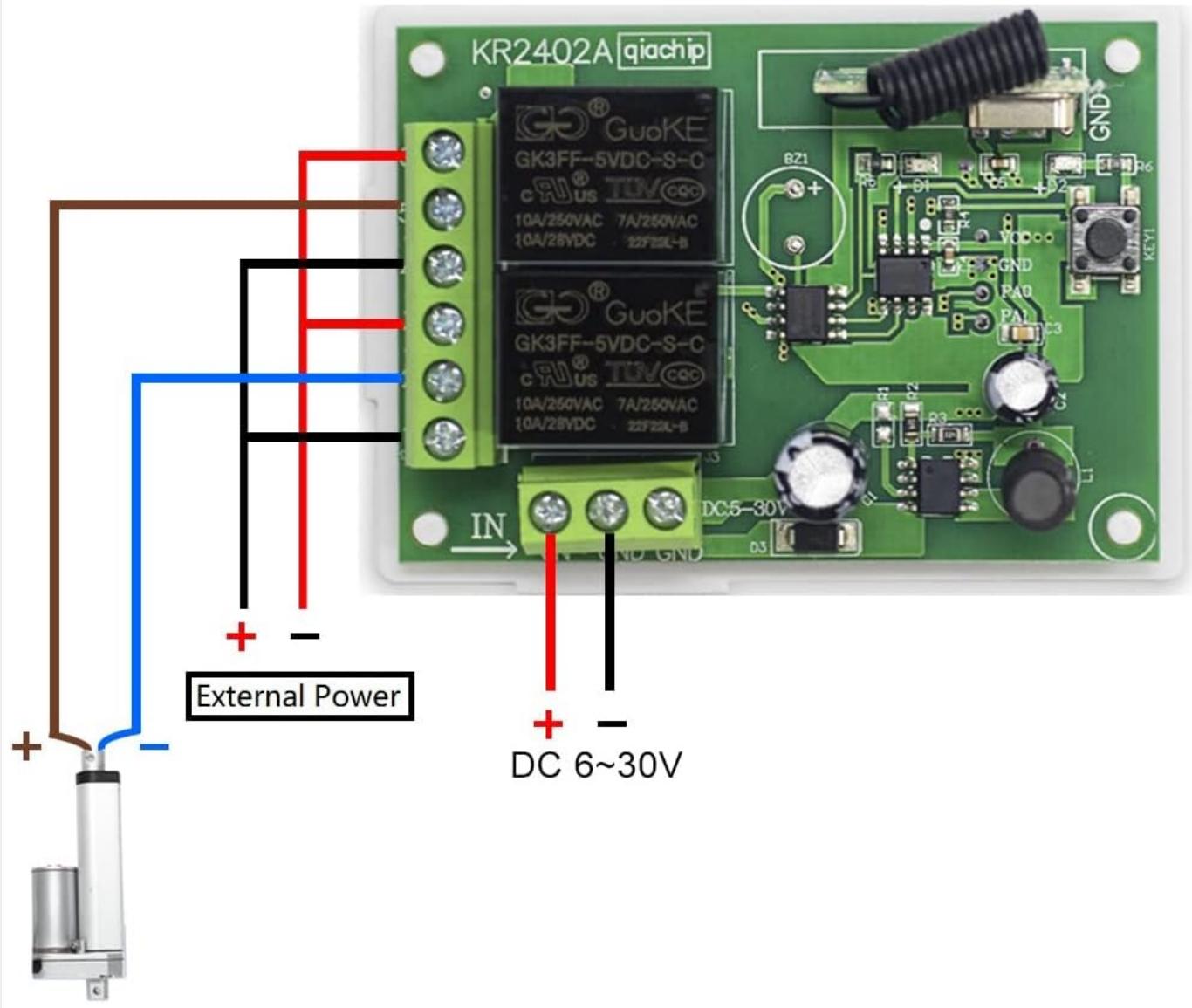


Figure 6: Wiring connections when using an external power supply for the controlled device. The receiver itself is powered by DC 6~30V, and the external power is routed through the relay contacts.

Terminal Definitions:

- **NO:** Normally Open pin
- **COM:** Common pin
- **NC:** Normally Closed pin
- **IN:** Power Input (Positive)
- **GND:** Ground (Negative)

7. TROUBLESHOOTING

If you encounter issues with your QIACHIP wireless remote control switch, consider the following common problems and solutions:

- **Remote Not Responding / Relay Not Activating:**

- Ensure the receiver board is powered correctly within the 6V-30V DC range.
- Verify that the remote control has a working battery.
- The remote and receiver might not be paired correctly. Perform the "Clearing Existing Codes" (Section 4.1) and then re-pair the remote for the desired operating mode (Sections 4.2-4.4). Some users report that initial pairing is necessary even if instructions don't explicitly state it as a first step.
- Check the distance between the remote and receiver. While it has a long range, obstacles can reduce it.

- **Only One Relay Working (in Latched Mode):**

- This often indicates incorrect pairing for Latched mode. Ensure you pressed the learning button 3 times, then pressed button "A", waited, and then pressed button "B" during the pairing process.
- Clear all codes (Section 4.1) and re-pair specifically for Latched mode (Section 4.4).

- **Device Not Turning On/Off:**

- Inspect all wiring connections to ensure they are secure and match the appropriate wiring diagram for your application.
- Confirm that the connected device (motor, light, etc.) is receiving power and is functioning correctly independently of the relay.
- Ensure the current and voltage requirements of your connected device do not exceed the relay's maximum ratings (10 Amps, 30 Volts).

8. SPECIFICATIONS

Specification	Value
Brand	QIACHIP
Model	KR2402+2KT05
Receiver Working Voltage	DC 6V ~ 30V
Current Rating (Relay)	10 Amps
Maximum Switching Voltage	30 Volts
RF Frequency	433M
Control Distance	Up to 50 meters (open environment)
Operating Modes	Momentary, Toggle, Latched
Memory Capacity	Up to 15 remote controls
Connector Type	Screw Terminals
Contact Material	Silver Alloy
Contact Type	Normally Open (NO)
Item Weight	4.2 ounces
Batteries (Transmitter)	1 CR2 battery required (included)

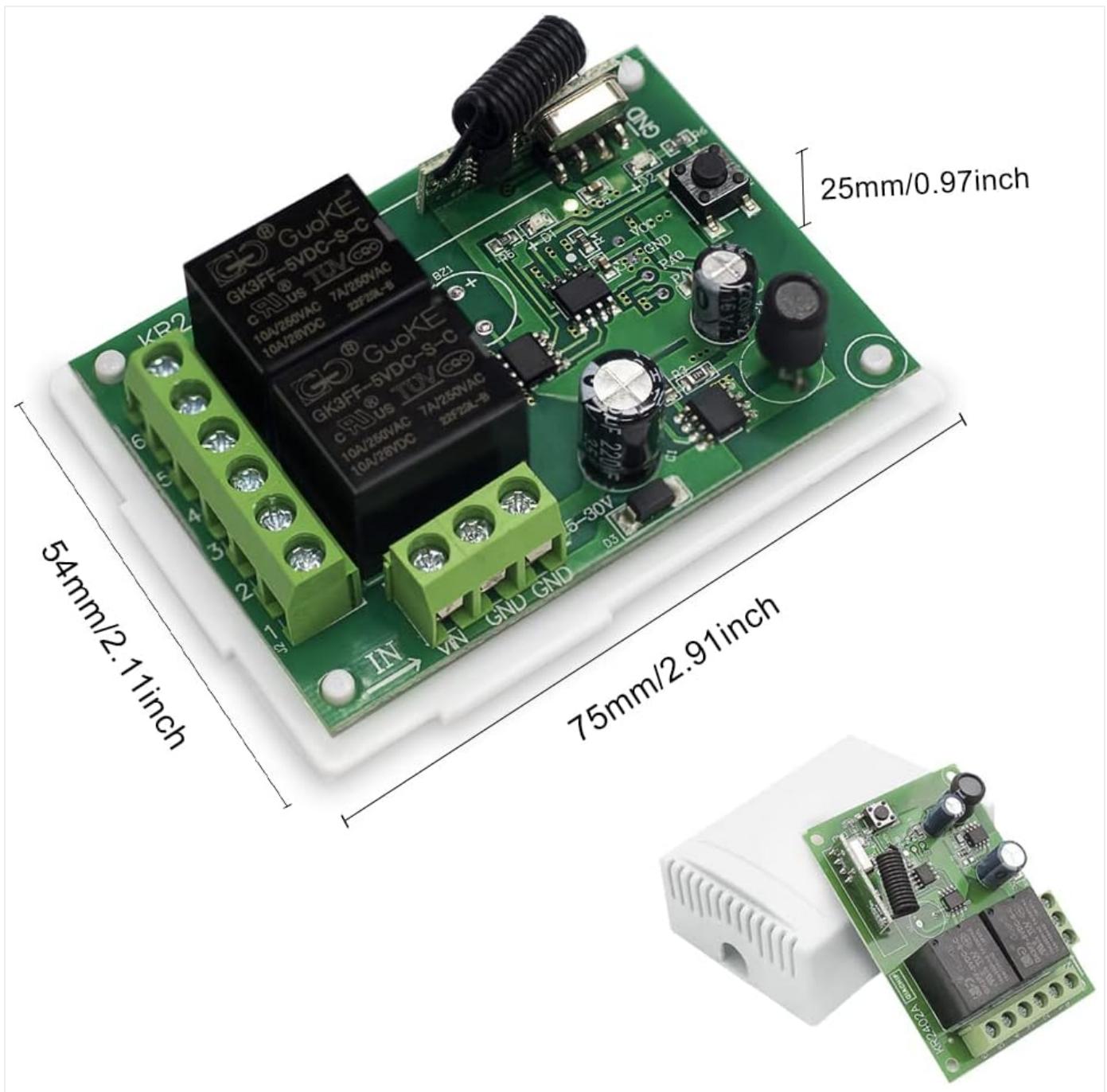
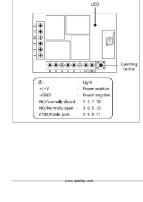
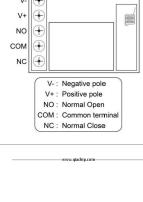
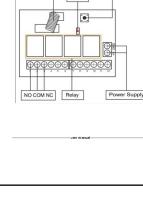
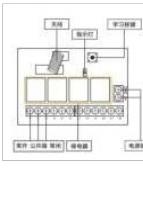


Figure 7: Dimensions of the QIACHIP receiver board.

9. WARRANTY AND SUPPORT

QIACHIP is committed to providing quality products and customer satisfaction. While specific warranty details are not provided in this manual, if you encounter any problems or have questions regarding your product, please contact the seller directly via email. They are available to assist you with troubleshooting and support.

For further assistance, please refer to the contact information provided with your purchase or on the product listing page.

 <p>12V 直流电机正反转控制器 操作说明书</p> <p>M1 : 伸电机 M2 : 缩电机 ◎ : 电机 +12V : 电源正极 GND : 电源负极</p> <p>接线图</p>	<p>QIACHIP 12V DC Motor Forward/Reverse Controller Operation Manual</p> <p>This manual provides instructions for operating the QIACHIP 12V DC Motor Forward/Reverse Controller, including wiring diagrams, function descriptions, setting methods for momentary, toggle, and latching modes, and technical specifications. It details how to pair remote controls and reset the device.</p>
 <p>12V 4CHANNEL RECEIVER INSTRUCTION</p>	<p>QIACHIP 12V 4-Channel Wireless Receiver Instruction Manual and Technical Specifications</p> <p>Detailed instructions and technical specifications for the QIACHIP 12V 4-Channel Wireless Receiver, covering wiring diagrams, operating modes (Momentary, Toggle, Latching), and setup procedures for wireless remote control applications.</p>
 <p>12V 1CHANNEL RECEIVER INSTRUCTION Module: KR1201A/KR1201B</p>	<p>QIACHIP KR1201A/KR1201B 12V 1-Channel Receiver: Installation and Operation Guide</p> <p>Comprehensive guide for the QIACHIP KR1201A and KR1201B 12V 1-channel RF relay receiver module. Learn about wiring diagrams, operating modes (Momentary, Toggle, Latching, Delay), and setup procedures for various applications like controlling lights, door locks, and motors.</p>
 <p>12V 4CHANNEL RECEIVER INSTRUCTION Module: KR1204B</p>	<p>QIACHIP KR1204B 12V 4-Channel Wireless Remote Control Receiver User Manual</p> <p>Comprehensive user manual for the QIACHIP KR1204B 12V 4-Channel Wireless Remote Control Receiver. Includes wiring diagrams, operating modes (Momentary, Toggle, Latching), setup instructions, and technical specifications.</p>
 <p>12V 四路 无线遥控开关 操作说明书 适用型号: KR1204B</p>	<p>QIACHIP KR1204B 12V 4-Channel Wireless Remote Control Switch User Manual</p> <p>User manual for the QIACHIP KR1204B 12V 4-channel wireless remote control receiver module. Includes wiring diagrams, operating modes (Momentary, Toggle, Latching), and technical specifications.</p>
 <p>Qiachip KR2402A DC6-30V 2CHANNEL RECEIVER INSTRUCTION MANUAL Rev 1.0 2019 Model: KR2402A</p> <p>WIRING DIAGRAM</p>	<p>Qiachip KR2402A 2-Channel Receiver Instruction Manual</p> <p>Instruction manual for the Qiachip KR2402A DC6-30V 2-Channel Receiver, detailing wiring diagrams, function descriptions, setting methods, and technical specifications.</p>