

DieseRC 4 Buttons (B098T1BPKP)

DieseRC AC 110V 120V 240V Radio Control Switch User Manual

Model: 4 Buttons (B098T1BPKP) | Brand: DieseRC

PRODUCT OVERVIEW

The DieseRC AC 110V 120V 240V Radio Control Switch is a versatile 2-channel 433MHz RF wireless relay receiver board designed for remote control applications. It offers stable and reliable performance with high reception sensitivity, allowing control within 50 meters without obstacles. This system is ideal for remotely operating various devices such as garage doors, electric awnings, motors, and lighting systems in homes, farms, factories, and offices.

SAFETY INFORMATION

- **Electrical Safety:** Ensure all power is disconnected before installation or wiring to prevent electric shock.
- **Professional Installation:** If you are not familiar with electrical wiring, seek assistance from a qualified electrician.
- **Voltage Compatibility:** Verify that the receiver's voltage rating (85V-240V AC) matches your power supply.
- **Load Capacity:** Do not exceed the maximum current rating of 30A for the relays.
- **Environmental Conditions:** Avoid exposing the device to moisture, extreme temperatures, or corrosive environments.

PACKAGE CONTENTS

The package includes the following components:

- 1 x 433MHz RF Wireless Relay Receiver Board
- 2 x 4-Button Transmitters (Remote Controls)



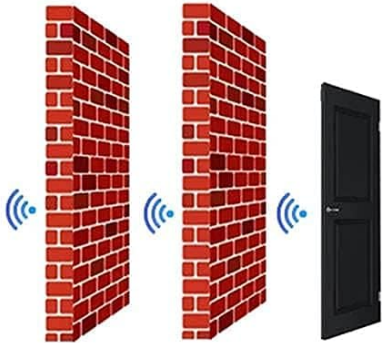
Image: The DieseRC wireless relay receiver board, its protective housing, and two 4-button remote controls with keychains.

TECHNICAL SPECIFICATIONS

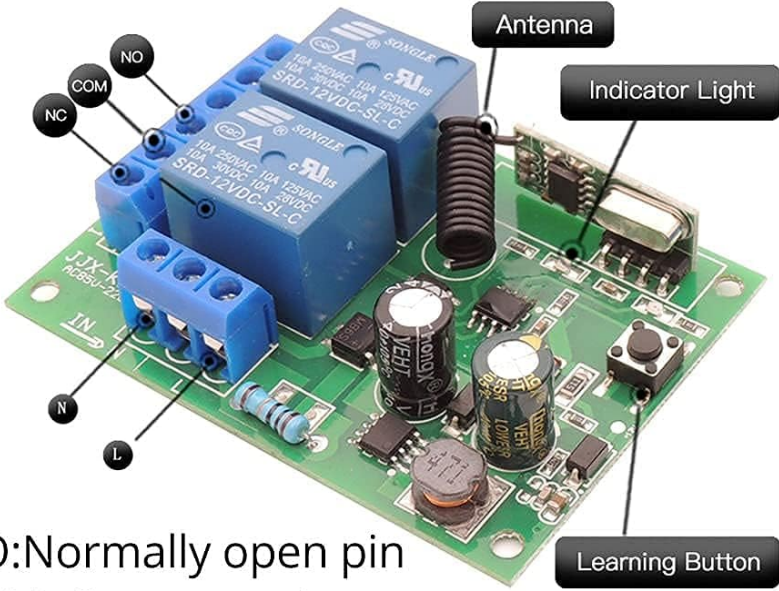
Feature	Specification
Brand	DieseRC
Model	4 Buttons (B098T1BPKP)
Operating Voltage	AC 85V ~ 240V
Frequency	433MHz
Reception Sensitivity	> -105dBm
Control Distance	Up to 50 meters (open area)

Feature	Specification
Relay Current Rating	30A (High Power Blue Terminal)
Number of Relays	2 Independent Relays
Relay Terminals	Normally Open (NO), Common (COM), Normally Closed (NC)
Transmitter Storage	Up to 20 transmitters per receiver
Battery Type (Transmitter)	2 x CR2 batteries (included)

PRODUCT DETAIL



Relay Receiver Board
Work Volts: AC 85V~250V



NO: Normally open pin
COM: Common pin
NC: Normally closed pin

Image: Detailed view of the relay receiver board showing terminals (NO, COM, NC), antenna, indicator light, and learning button. Also shows the remote control with its buttons (A, B, C, D), indicator light, silicone buttons, chrome bezel, and metal keychain.

SETUP AND INSTALLATION

Wiring Diagrams

The receiver board features 2 independent relays, each with Normally Open (NO), Common (COM), and Normally Closed (NC) terminals. Ensure correct wiring based on your application and device type (AC or DC). Always disconnect power before wiring.

4 Wiring modes

AC Device

AC 85V~250V

DC Device

DC 1V~250V

AC 85V~250V

AC Motor

AC 85V~250V

DC Motor

DC 12V 24V 36V...

AC 85V~250V

Lamp

Curtain motor

Garage motor

Image: Illustrates four common wiring configurations: AC device (e.g., lamp), DC device, AC motor, and DC motor. Each diagram shows connections to the receiver board's input (N, L) and relay terminals (1-6).

- AC Device Wiring:** Connect the AC power input to the N and L terminals. Connect the device to the COM and NO terminals of the desired relay for normally open operation, or COM and NC for normally closed operation.
- DC Device Wiring:** Connect the DC power input to the N and L terminals (receiver power). Connect the DC device to the COM and NO/NC terminals of the relay, ensuring correct polarity for the device.
- AC Motor Wiring:** For controlling AC motors (e.g., tubular motors for curtains), specific wiring is required to manage direction. Refer to the diagram for connecting the motor's up/down/common wires to the relays.
- DC Motor Wiring:** For controlling DC motors (e.g., linear actuators), the relays can be configured to reverse polarity for bidirectional control. Follow the diagram for connecting the DC motor and its power supply.

Pairing Transmitters (Learning Mode)

The receiver can store up to 20 transmitters. Follow these steps to pair a new transmitter or re-pair an existing one:

1. **Select Operating Mode:** The receiver supports Momentary, Toggle, and Latched modes. The pairing process differs slightly for each mode.
2. **Enter Learning Mode:**
 - For **Momentary Mode:** Press the learning button on the receiver board **1 time**. The indicator light on the receiver will turn on.
 - For **Toggle Mode:** Press the learning button on the receiver board **2 times**. The indicator light on the receiver will turn on.
 - For **Latched Mode:** Press the learning button on the receiver board **3 times**. The indicator light on the receiver will turn on.
3. **Pair Transmitter:** While the receiver's indicator light is on (within approximately 3 seconds), press the desired button on your transmitter (e.g., button "A" for Momentary, or "A" and "B" for Latched). The receiver's indicator light will flash and then turn off, indicating successful pairing.



Image: A close-up view of the DieseRC receiver board, highlighting the learning button used for pairing remote controls.

How to get the signal --Set up

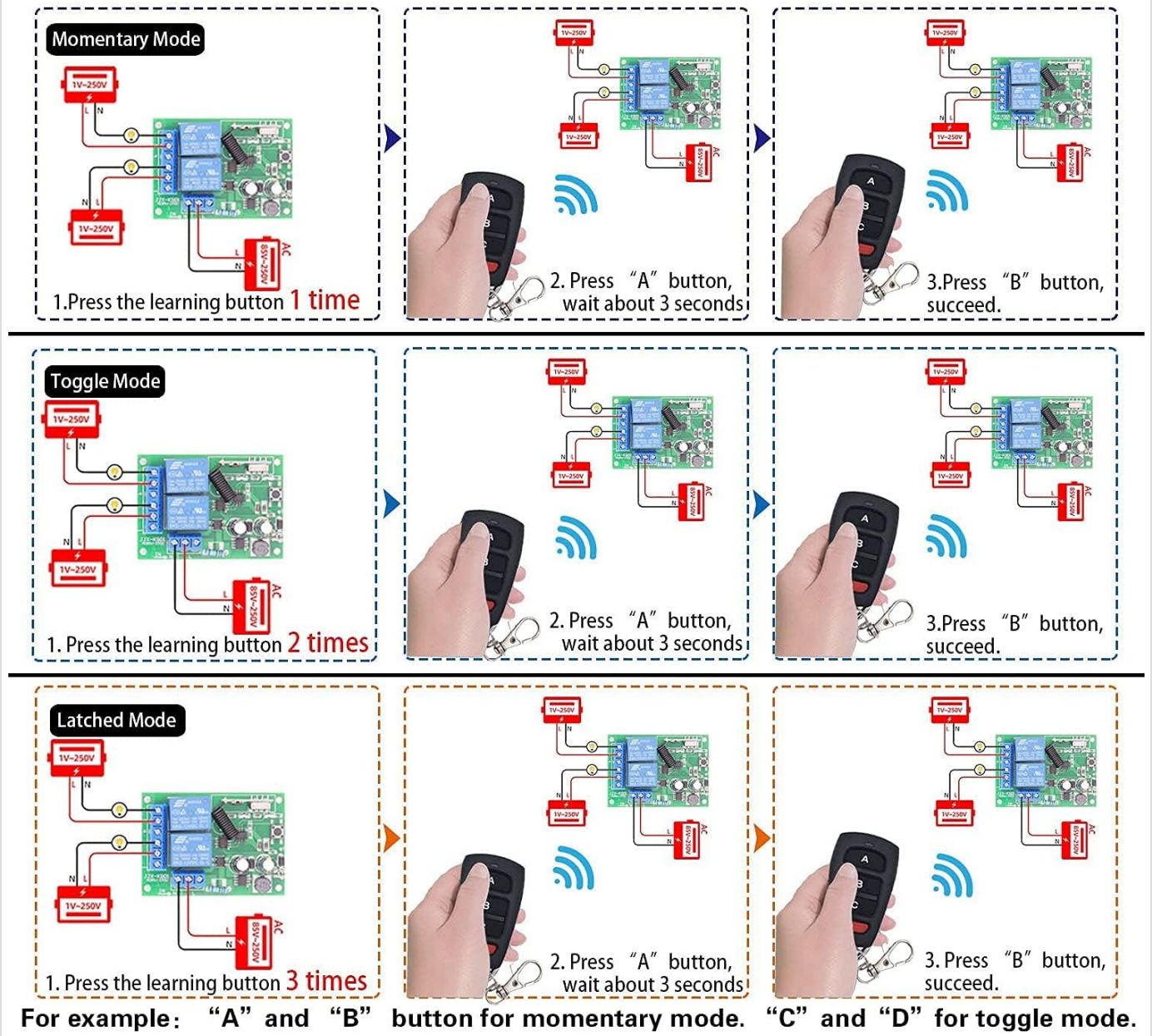


Image: Step-by-step diagrams illustrating how to set up the receiver for Momentary, Toggle, and Latched modes by pressing the learning button 1, 2, or 3 times respectively, and then pressing a remote button to complete the pairing.

Resetting the Receiver

To clear all paired transmitters from the receiver's memory:

1. Press the learning button on the receiver board **8 times**.
2. The indicator light will flash rapidly and then turn off, indicating that all paired transmitters have been cleared. The remote control will no longer work until re-paired.

OPERATING INSTRUCTIONS

Operation Modes

The DieseRC receiver supports three distinct operation modes:

- **Momentary Mode:** The relay remains activated only while the transmitter button is pressed. Releasing the button deactivates the relay. This is suitable for applications requiring temporary activation, like a momentary push-button

switch.

- **Toggle Mode:** Pressing the transmitter button once activates the relay, and it remains active. Pressing the same button again deactivates the relay. This acts like a standard ON/OFF switch.
- **Latched Mode:** Pressing one button (e.g., 'A') activates a specific relay (e.g., Relay 1). Pressing another button (e.g., 'B') activates a different relay (e.g., Relay 2) and simultaneously deactivates the first relay. Pressing a third button (e.g., 'C') can deactivate both relays. This mode is useful for controlling two-way devices or selecting between two states.

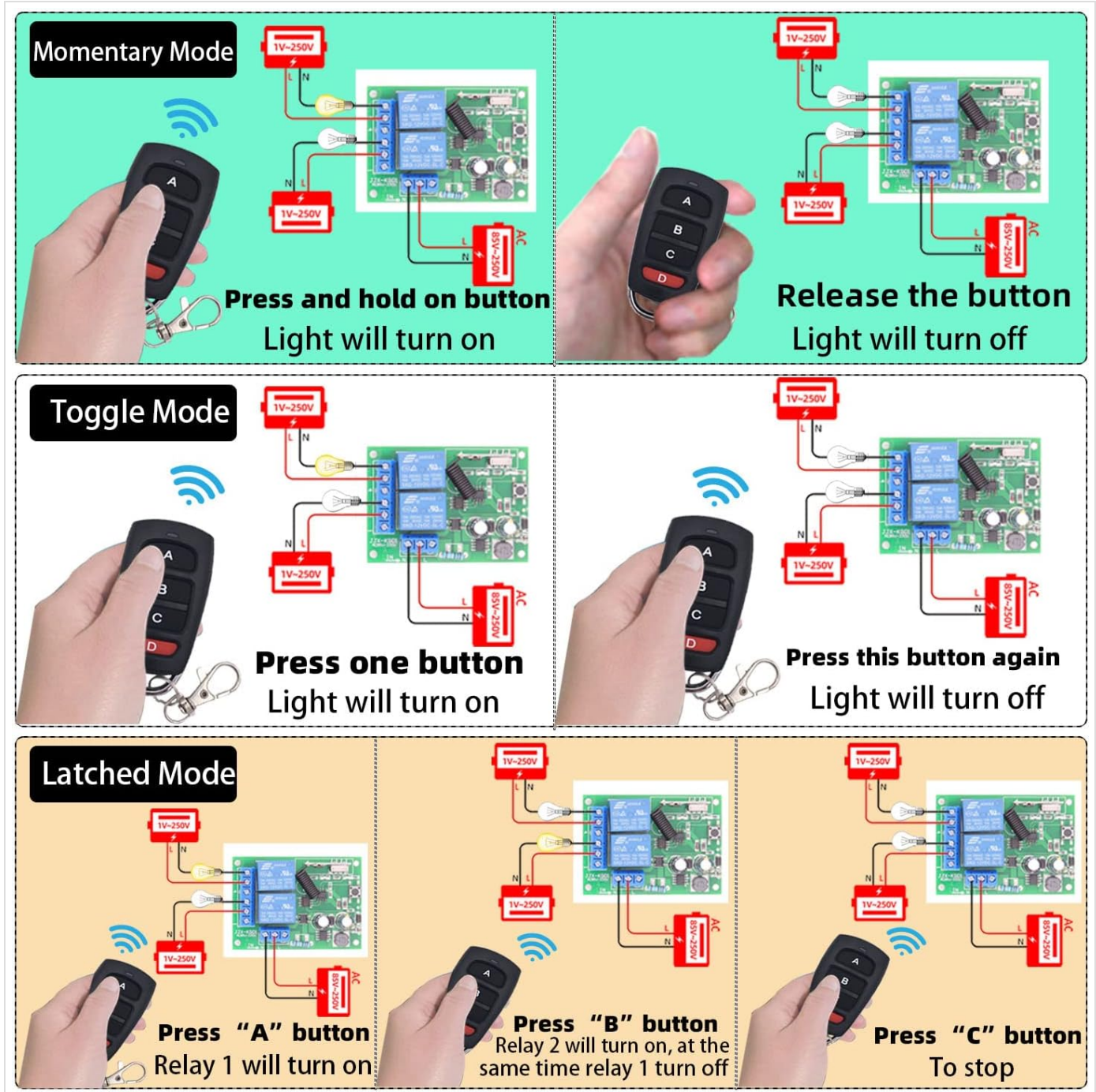


Image: Visual representation of the three operation modes: Momentary (relay active while button is held), Toggle (press once for ON, press again for OFF), and Latched (different buttons control ON/OFF states of multiple relays).

Typical Applications

This wireless relay system can be used in a wide range of applications:

- **Garage Doors & Electric Gates:** Remotely open and close garage doors or electric gates.
- **Lighting Control:** Turn lights on/off remotely in homes, gardens, or commercial spaces.

- **Electric Curtains & Awnings:** Control the opening and closing of motorized curtains or retractable awnings.
- **Motor Control:** Operate various AC or DC motors for different purposes.
- **Ventilation Systems:** Remotely control fans or ventilation devices.
- **DIY Projects:** Integrate into custom automation projects requiring wireless switching.



Image: A person using the remote control to operate a garage door, demonstrating the effective operation distance of up to 50 meters in an open area.

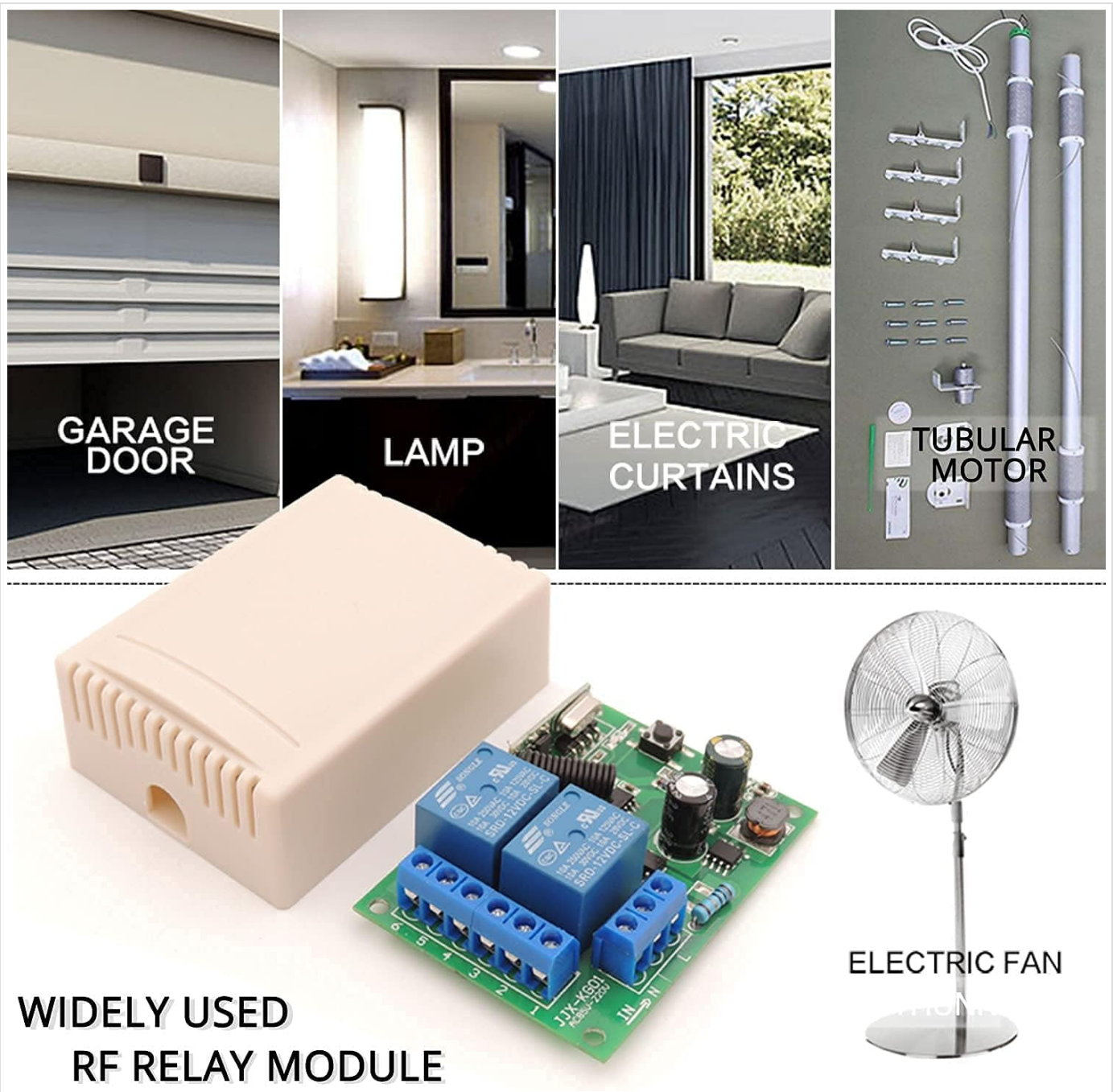


Image: A collage showcasing the wide applicability of the RF relay module for controlling devices such as garage doors, lamps, electric curtains, tubular motors, and electric fans.

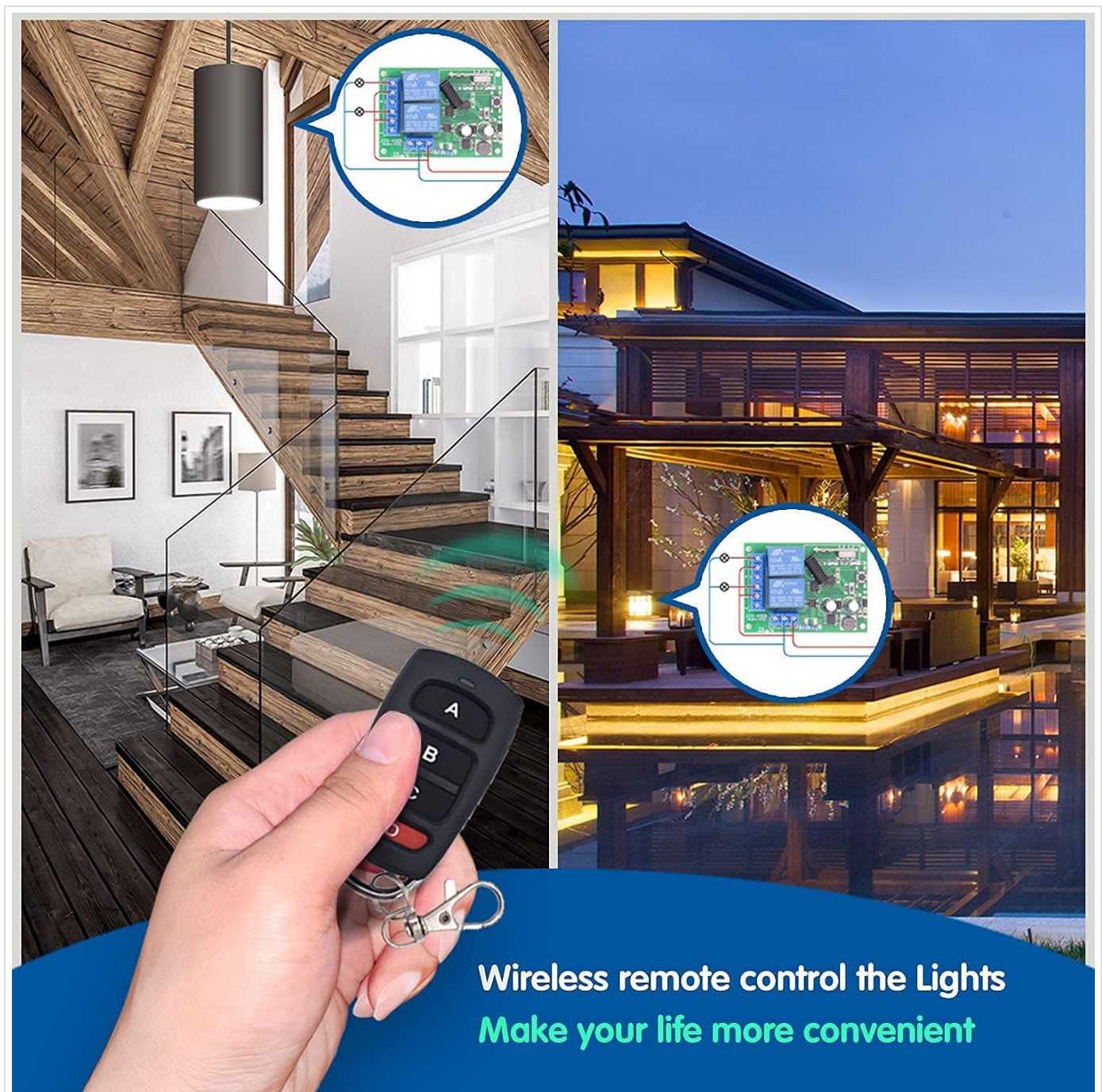


Image: Depicts the convenience of wirelessly controlling lights in both indoor and outdoor home environments using the DieseRC remote system.

MAINTENANCE

The DieseRC wireless relay system is designed for durability and requires minimal maintenance. To ensure optimal performance and longevity:

- **Keep Clean:** Regularly wipe the receiver board and remote controls with a dry, soft cloth to remove dust and debris.
- **Avoid Moisture:** Protect the receiver board from water and high humidity, as this can damage electronic components.
- **Battery Replacement:** Replace the CR2 batteries in the transmitters when the signal range decreases or the indicator light dims. Ensure correct battery polarity.
- **Secure Connections:** Periodically check all wired connections to the receiver board to ensure they are secure and free from corrosion.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Remote control does not work.	Transmitter not paired; low battery; out of range; interference.	Re-pair the transmitter (see Pairing section); replace batteries; move closer to receiver; check for strong interference sources.
Device does not respond to relay activation.	Incorrect wiring; device malfunction; power supply issue.	Verify wiring connections (see Wiring Diagrams); test the device directly; ensure stable power supply to both receiver and device.
Short range or intermittent signal.	Obstacles (walls, metal); electromagnetic interference; low transmitter battery.	Relocate receiver to a less obstructed area; minimize interference from other electronic devices; replace transmitter batteries.
Receiver indicator light does not turn on.	No power to receiver; faulty receiver.	Check power connections and source; if power is confirmed, the receiver may be faulty and require replacement.

WARRANTY AND SUPPORT

DieseRC products are manufactured to high-quality standards and are tested before dispatch. For warranty information, technical support, or any inquiries regarding your product, please refer to the contact details provided with your purchase or visit the official DieseRC store on Amazon. We are committed to providing excellent after-sales service and support to resolve any issues you may encounter.

Note: Please retain your proof of purchase for warranty claims.

PRODUCT VIDEO GUIDE

Watch this official video for a visual guide on the setup and operation of the DieseRC wireless relay control switch, demonstrating its versatility with various applications.

Your browser does not support the video tag.

Video: A comprehensive demonstration of the DieseRC relay remote control switch, showcasing its functionality with AC and DC motors, and various lighting applications. It also illustrates the different operating modes and the pairing process.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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