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› User Manual for fashionsea Wireless Remote Switch (AK-RK02E)

fashionsea AK-RK02E

Wireless Remote Switch User Manual

Model: AK-RK02E | Brand: fashionsea

INTRODUCTION

This user manual provides detailed instructions for the fashionsea AK-RK02E Wireless Remote Switch. This 2-channel multi-function remote control system operates at 433Mhz and includes both a transmitter and a receiver. It is designed for versatile applications, including electric doors, cars, lights, and more, offering reliable control within a significant range. The system is pre-configured for immediate use, simplifying installation. Its robust signal can penetrate walls, floors, and doors, ensuring stable control up to 50 meters without obstacles. The receiver supports DC12-48V input and features a maximum load current of 10A.

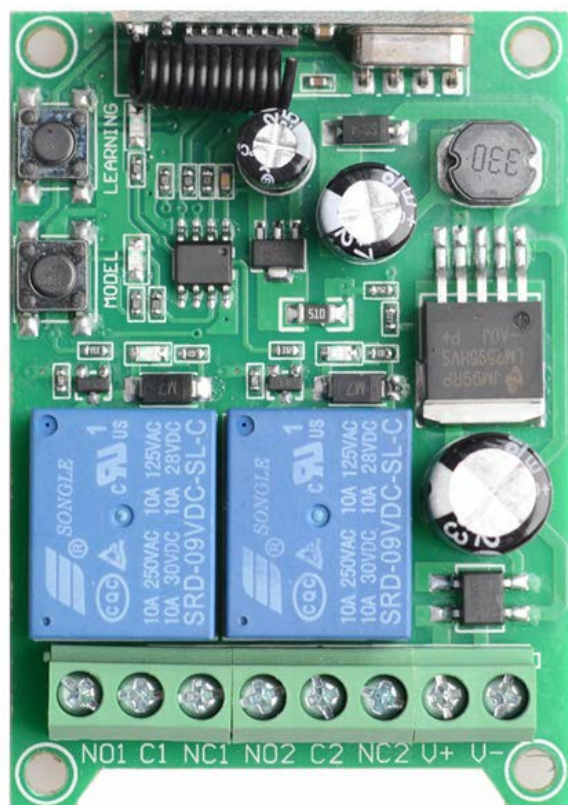


Image: The fushionsea AK-RK02E Wireless Remote Switch system, showing the receiver board and two remote control transmitters.

SETUP

The fushionsea Wireless Remote Switch is designed for ease of use, with the transmitter and receiver pre-paired and tested before shipment. Upon receiving the product, no initial programming is required. Simply proceed with the wiring and installation according to your specific application.

Receiver Wiring

The receiver unit (Model No.: AK-RK02E) operates with a working voltage of DC12-48V. It provides both DC and Switch Signal output options. Ensure proper power supply and load connections as per the diagrams below.

Output 12-48V Wiring Diagram

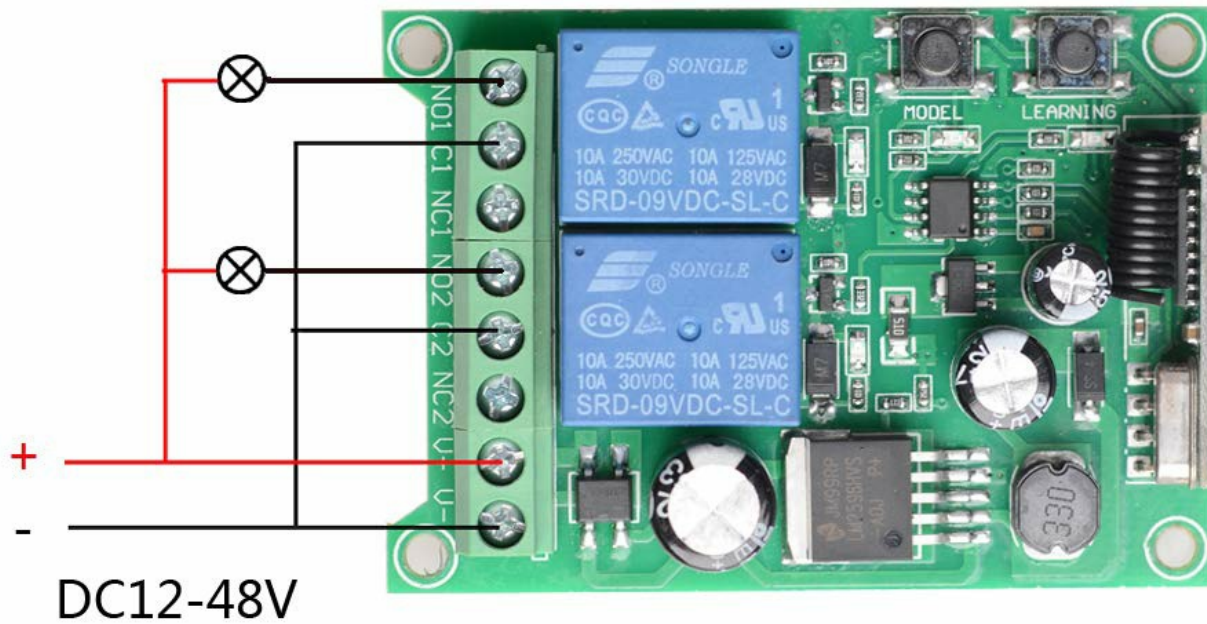


Image: Wiring diagram for connecting a DC 12-48V load (e.g., lights) to the receiver's output terminals (NO1, C1, NC1, NO2, C2, NC2) and power input (U+, U-).

Wiring Diagram For DC 12-48V Motor

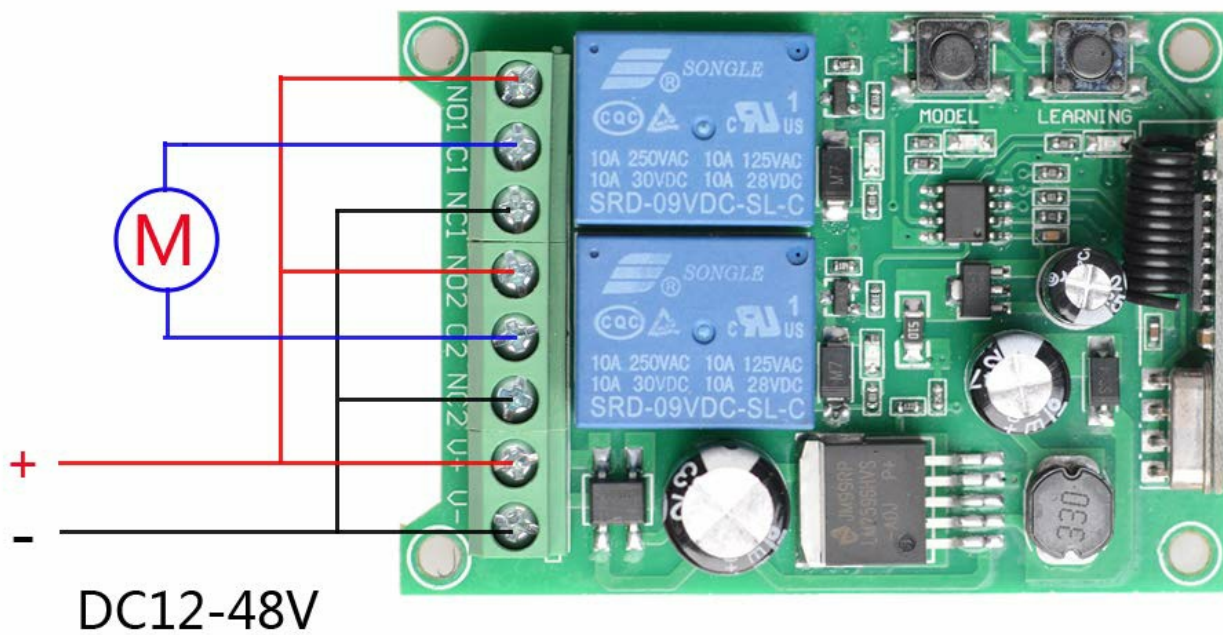


Image: Wiring diagram specifically for controlling a DC 12-48V motor, showing connections to the receiver's output terminals and power input.

Output Switch Signal Wiring Diagram

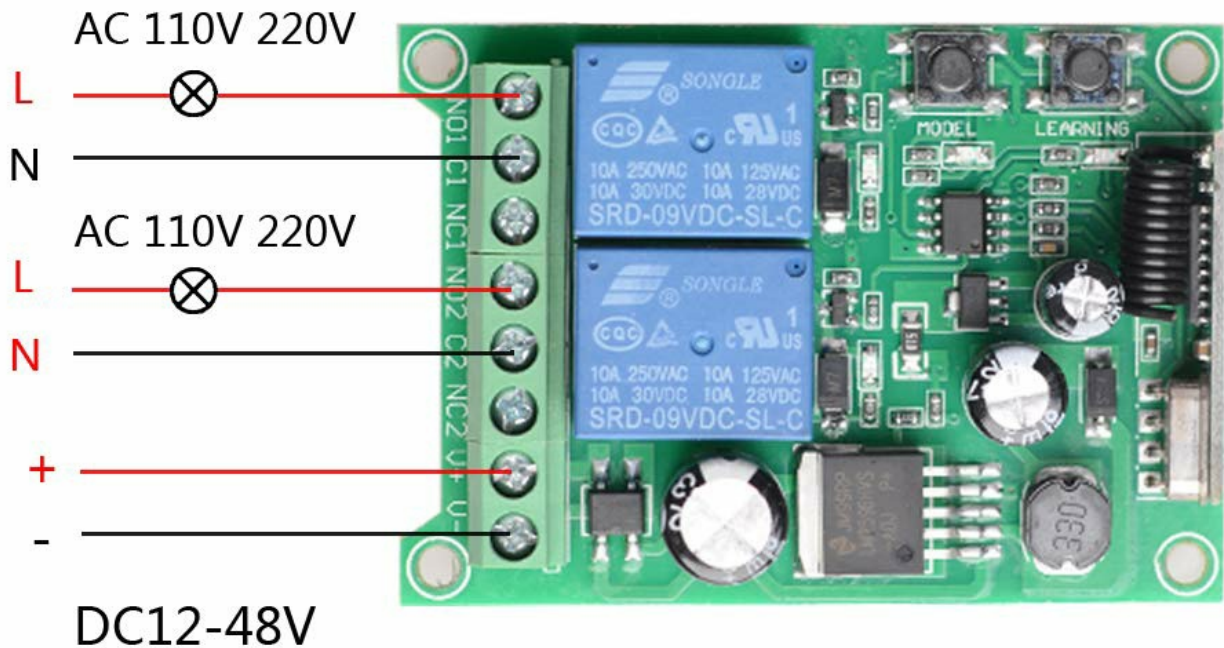


Image: Wiring diagram for outputting a switch signal (AC 110V/220V) using the receiver's relay contacts, with separate power input for the receiver.

OPERATING MODES

The receiver supports four distinct working modes, which can be easily switched using the "Model" button on the receiver board. No soldering or jumper caps are required for mode selection.

- **Momentary Mode:** Press the "Model" button 1 time.

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

- **Latched Mode:** Press the "Model" button 2 times.

Operation: Press a transmitter button to turn the relay ON; press another button (or the corresponding OFF button if available) to turn the relay OFF.

- **Toggle Mode:** Press the "Model" button 3 times.

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

- **Delay 5 Seconds Mode:** Press the "Model" button 4 times.

Operation: Press transmitter button A, and relay A will actuate and remain ON for 5 seconds. The same applies to relay B with transmitter button B.

LEARNING AND CLEARING METHOD

This section details how to pair new transmitters or clear existing pairings from the receiver.

1. Learning (Pairing) Button A:

Press the "Learning" button on the receiver board 1 time. The LED indicator will flash. Then, press transmitter button A. The LED indicator will flash 3 times and turn off, indicating successful learning for button A.

2. Learning (Pairing) Button B:

Press the "Learning" button on the receiver board 2 times. The LED indicator will flash. Then, press transmitter button B. The LED indicator will flash 3 times and turn off, indicating successful learning for button B.

3. Clearing Codes:

Press and hold the "Learning" button on the receiver board for approximately 8 seconds. The indicator light will change from ON to OFF. After this, if you press a remote button, the relay will not respond, signifying that all stored codes have been successfully cleared.

MAINTENANCE

To ensure the longevity and optimal performance of your Wireless Remote Switch, follow these maintenance guidelines:

- **Keep Dry:** Protect the receiver unit from moisture and water exposure. Water can damage internal electronic components.
- **Clean Gently:** Use a soft, dry cloth to clean the exterior of the receiver and transmitters. Avoid using harsh chemicals or abrasive cleaners.
- **Temperature Control:** Operate and store the device within its specified temperature range (-40°C to +80°C). Extreme temperatures can affect performance and lifespan.
- **Battery Replacement:** If the remote control's range decreases or it becomes unresponsive, replace the DC6V battery in the transmitter.
- **Secure Connections:** Periodically check all wired connections to the receiver to ensure they are secure and free from corrosion.

TROUBLESHOOTING

If you encounter issues with your Wireless Remote Switch, refer to the following common problems and solutions:

- **Remote Not Responding:**
 - Check the battery in the transmitter. Replace if necessary.
 - Ensure the receiver is properly powered (DC12-48V).
 - Verify that the transmitter and receiver are paired. If not, follow the "Learning Method" instructions.
 - Confirm that the selected operating mode (Momentary, Latched, Toggle, Delay) matches your intended use.
- **Limited Range:**
 - Obstacles such as thick walls, metal structures, or other electronic devices can interfere with the signal. Try operating the remote closer to the receiver or repositioning the receiver.
 - Ensure the receiver's antenna is not obstructed or damaged.

- Low transmitter battery can reduce range.

- **Relay Not Actuating (No Click Sound):**

- Check the power supply to the receiver.
- Verify the wiring connections to the load. Ensure they are secure and correct according to the wiring diagrams.
- Confirm the remote is paired and the correct button is being pressed for the selected mode.

- **Unexpected Relay Behavior:**

- This may indicate incorrect operating mode selection. Re-select the desired mode using the "Model" button.
- If multiple remotes are in use, ensure there is no signal interference from other devices operating on the same frequency.
- Consider clearing all codes and re-pairing only the desired transmitters.

SPECIFICATIONS

Detailed technical specifications for the fushionsea Wireless Remote Switch (Model AK-RK02E):

Feature	Specification
Receiver Model No.	AK-RK02E
Receiver Working Voltage	DC12-48V
Receiver Quiescent Condition	Less than 6mA
Receiver Working Temperature	-40°C to +80°C
Receiver Sensitivity	More than -105dBm
Working Frequency	433Mhz
Output Voltage	DC and Switch Signal (optional)
Max Load Current	Less than 10A
Receiver Dimensions (L x W x H)	8.5 x 5.7 x 2.6 cm (3.35 x 2.24 x 1.02 inches)
Transmitter Buttons	2 Buttons
Transmitter Working Voltage	DC6V
Remote Distance	20-50M (without obstacle)



Image: Diagram showing the dimensions of the receiver unit: 8.5cm length, 5.7cm width, and 2.6cm height.

APPLICATION SCENARIOS

The fushionsea Wireless Remote Switch is highly versatile and can be integrated into a wide range of control applications. Its multi-functionality makes it suitable for various intelligent control and security fields, including but not limited to:

- Controlling electric doors and access control systems.
- Operating garage doors and gates.
- Managing LED lamps and courtyard lights.
- Controlling electric curtains.
- Integration into car and motorcycle systems.
- General equipment control in industrial and home settings.

Application scenarios



Image: Visual representation of various applications for the remote switch, including electric vehicles, cranes, garage doors, motors, sliding doors, and household switches.

WARRANTY INFORMATION

Specific warranty details for this product are not provided in the available information. Please refer to the product packaging or contact the manufacturer, fushionsea, directly for warranty terms and conditions.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your fushionsea Wireless Remote Switch, please contact the manufacturer directly. Contact information may be found on the product packaging or the official fushionsea website.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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