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fushionsea AK-C211008

fushionsea DC 12V-36V 4CH Wireless Remote Control Switch User Manual

Model: AK-C211008 Receiver, AK-J027-4 Transmitter

1. Introduction

This manual provides detailed instructions for the installation, setup, and operation of the fushionsea DC 12V-36V 4-Channel Wireless Remote Control Switch. This system consists of a receiver (Model: AK-C211008) and a transmitter (Model: AK-J027-4), designed for various control applications.
Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Product Overview and Features

The fushionsea 4-channel wireless remote control switch system offers reliable control for a wide range of equipment. Its key features include:

- **Wide Voltage Compatibility:** Operates with DC 12V, 24V, or 36V power sources.
- **4-Channel Control:** Allows independent control of up to four devices or functions.
- **Multiple Working Modes:** Supports Momentary, Toggle, Latched, and mixed modes for versatile applications.
- **RF Technology:** Utilizes 433MHz RF technology for stable signal transmission, capable of passing through walls, floors, and doors within a range of 10-30 meters (without obstacles).
- **Easy Pairing:** Simple learning method for pairing transmitters with the receiver.
- **High Load Capacity:** Each channel supports a maximum load current of 10A.



Image 2.1: Top view of the fushionsea AK-C211008 4-channel receiver board, showing relays, power input, and antenna connector.

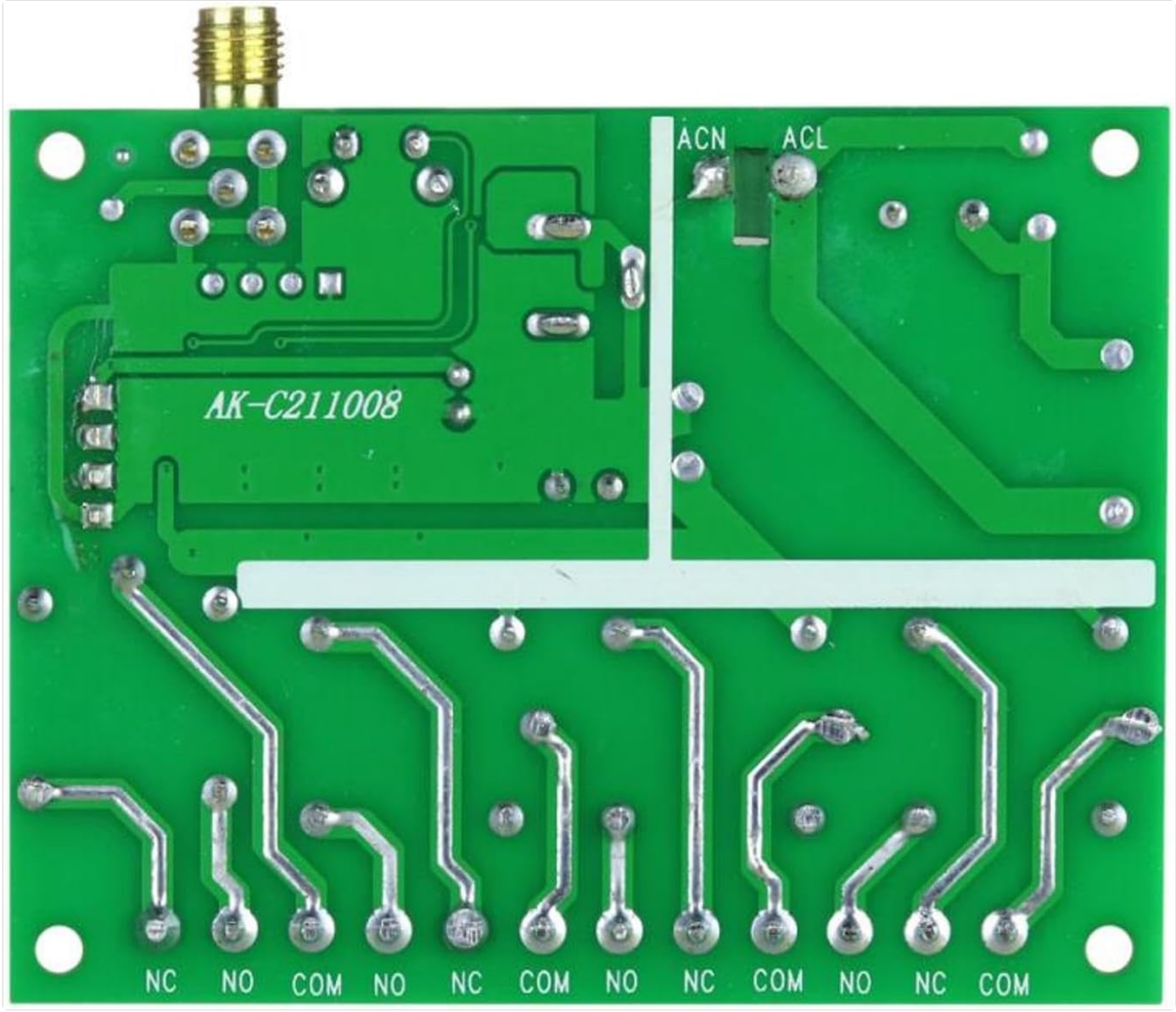


Image 2.2: Bottom view of the fushionsea AK-C211008 receiver board, displaying circuit traces and model number.

3. Specifications

Parameter	Value
Receiver Model No.	AK-C211008
Transmitter Model No.	AK-J027-4
Working Voltage	DC 12V-36V
Quiescent Current	< 6mA
Working Temperature	-40°C to +80°C
Receiver Sensitivity	> -105dBm
Working Frequency	433MHz
Max Load Current	10A per channel
Receiver Dimensions (L*W*H)	3.74 x 2.44 x 1.1 inches (approx. 95 x 62 x 28 mm)

Included Components	1 x Transmitter, 1 x Receiver

4. Setup and Wiring

The receiver and transmitter are pre-paired from the factory. Installation primarily involves wiring the receiver to your power source and the devices you wish to control.

4.1 Wiring Diagrams

Ensure all power is disconnected before performing any wiring. Refer to the diagrams below for common wiring configurations.

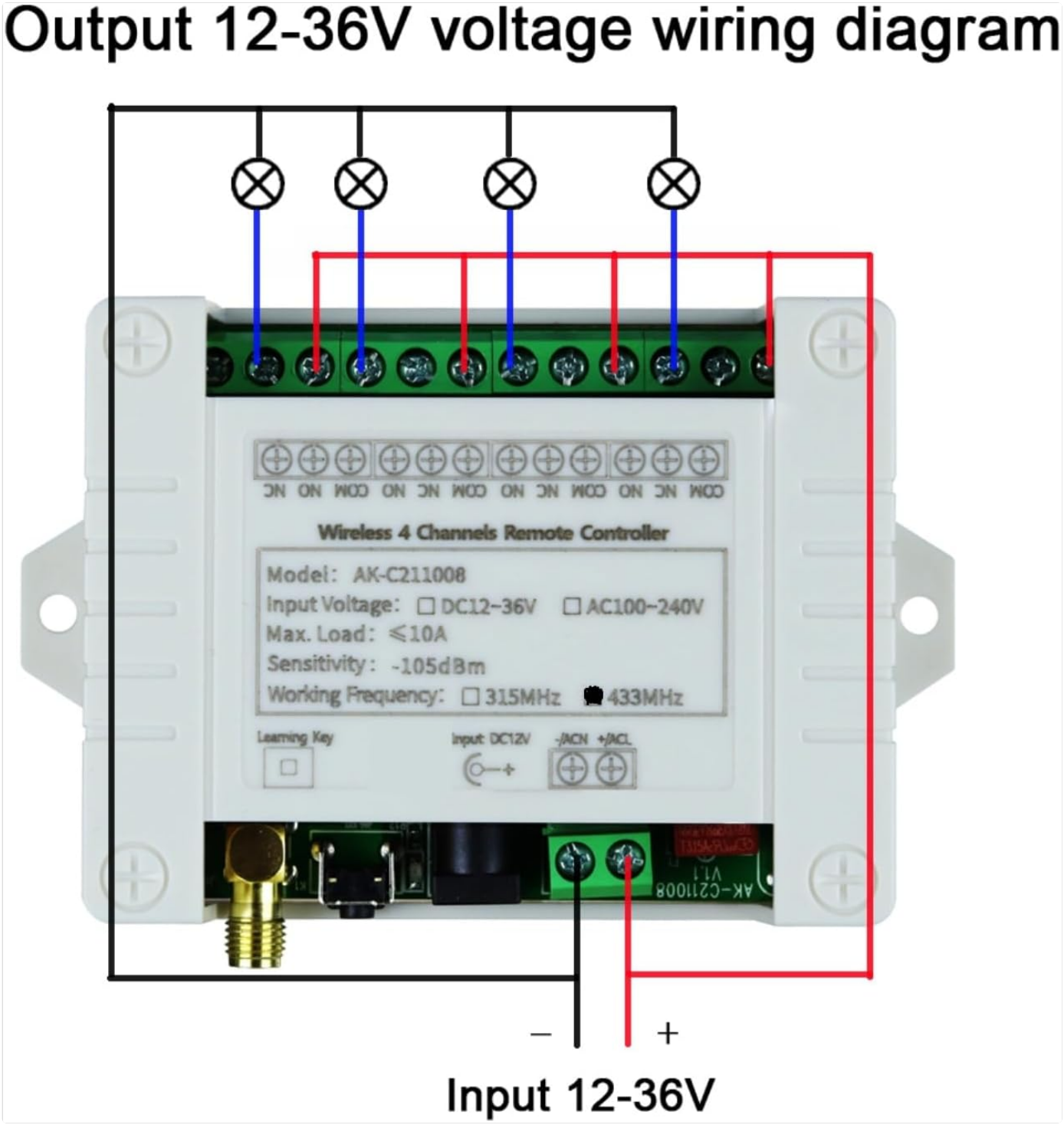


Image 4.1: Wiring diagram for controlling devices with DC 12-36V output voltage. This configuration is suitable for switching DC loads directly.

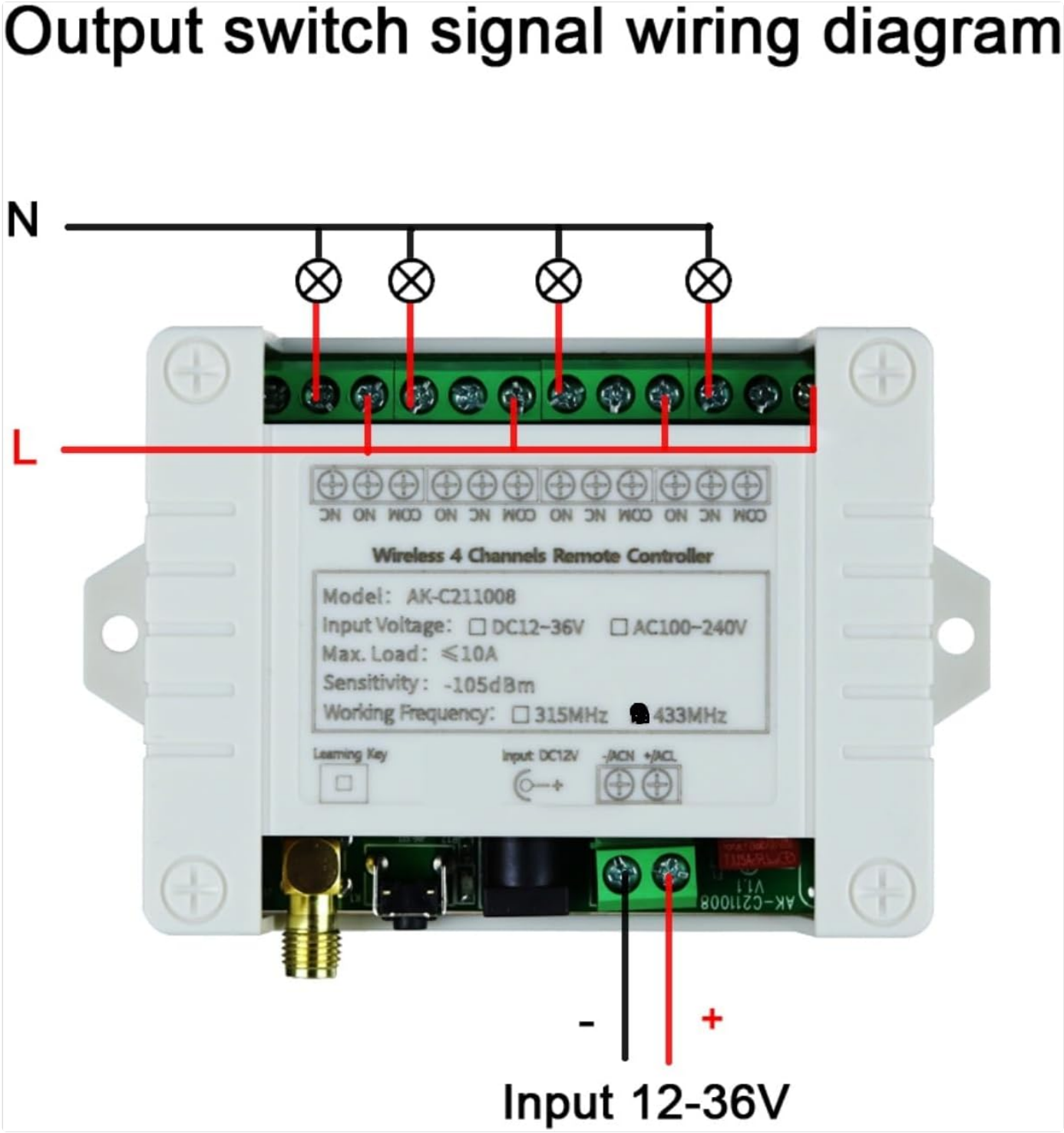


Image 4.2: Wiring diagram for output switch signal. This configuration is used when the receiver acts as a dry contact switch to control external circuits, such as AC loads via a separate power source.

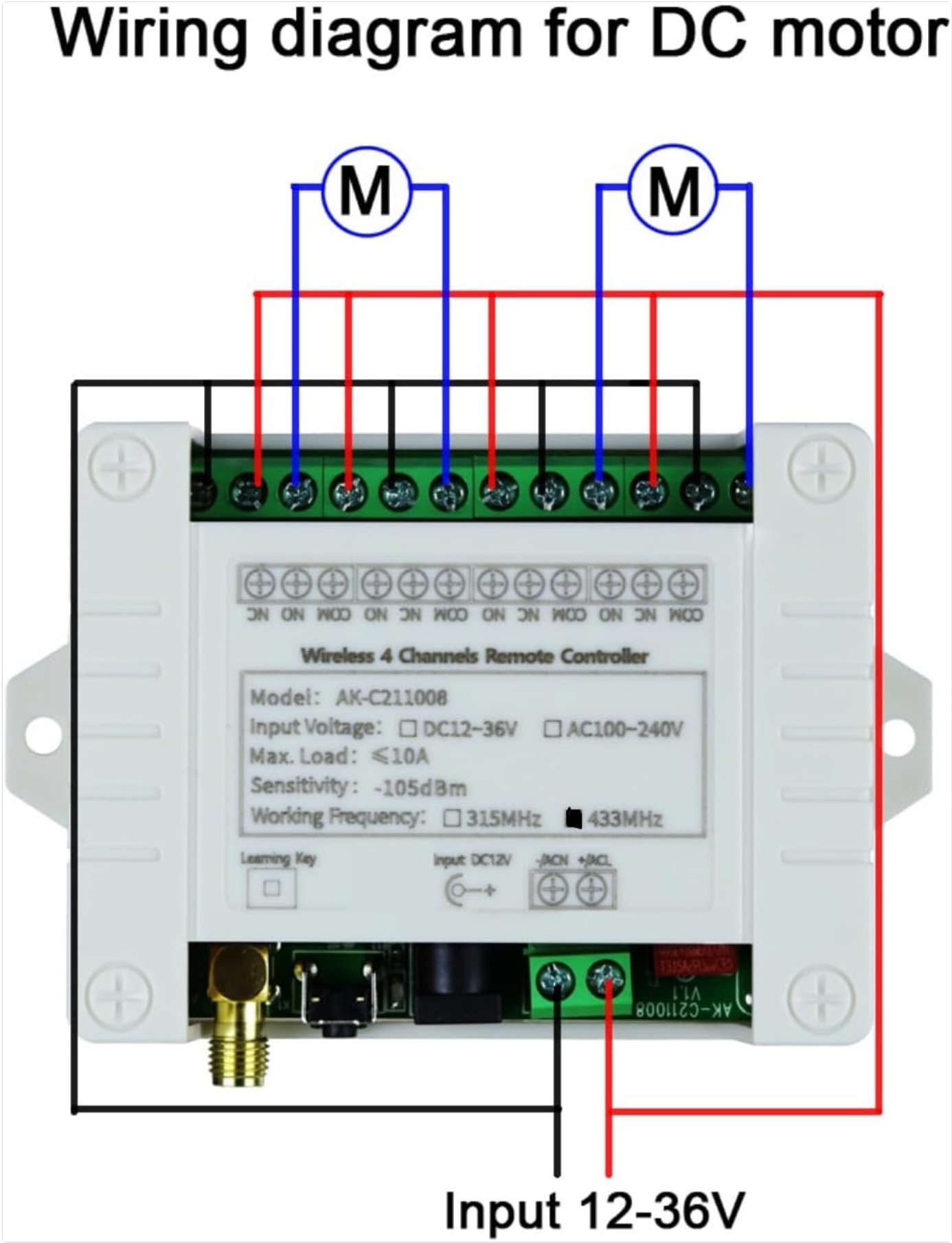


Image 4.3: Wiring diagram for controlling a DC motor. This setup typically uses two channels for forward and reverse control, or for controlling two separate motors.

4.2 Learning and Clearing Method (Pairing Transmitter)

The receiver supports various working modes. The mode is selected by pressing the learning button a specific number of

times. After selecting the mode, you pair the transmitter.

1. **Select Working Mode:** Press the learning button on the receiver board the corresponding number of times for your desired mode (see Section 5.1). The indicator light will flash and then turn OFF.
2. **Pair Transmitter:** While the indicator light is OFF, release your finger from the learning button. Then, press any button on your remote transmitter. The indicator light on the receiver will flash three times, indicating successful pairing.

Clearing Paired Transmitters:

- To clear all paired transmitters from the receiver's memory, press and hold the learning button for approximately 8 seconds. The indicator light will flash several times and then turn OFF. After clearing, the remote will no longer control the relay.

5. Operating Instructions

5.1 Working Modes

The receiver supports six different working modes, selected by pressing the learning button on the receiver board a specific number of times. After selecting the mode, pair the transmitter as described in Section 4.2.

- **Momentary Mode (Press Learning Button 1 time):**

  Relay is ON while the transmitter button is pressed; OFF when released.
- **Toggle Mode (Press Learning Button 2 times):**

  Press the transmitter button once to turn the relay ON; press the same button again to turn it OFF.
- **Latched Mode (Press Learning Button 3 times):**

  Press one transmitter button to turn a relay ON; press another transmitter button to turn that relay OFF and other relays ON (if applicable in a multi-channel setup). For a single channel, pressing one button turns it ON, pressing another button turns it OFF.
- **2-Channel Momentary + 2-Channel Latched (Press Learning Button 4 times):**

  Channels 1 and 2 operate in Momentary mode. Channels 3 and 4 operate in Latched mode.
- **2-Channel Momentary + 2-Channel Toggle (Press Learning Button 5 times):**

  Channels 1 and 2 operate in Momentary mode. Channels 3 and 4 operate in Toggle mode.
- **2-Channel Toggle + 2-Channel Latched (Press Learning Button 6 times):**

  Channels 1 and 2 operate in Toggle mode. Channels 3 and 4 operate in Latched mode.

5.2 General Operation

Once the receiver is wired and paired with the transmitter in the desired mode, simply use the buttons on the remote control to activate or deactivate the connected devices according to the selected working mode.



Image 5.1: Examples of application scenarios including garage doors, motors, gates, cranes, electric vehicles, sliding doors, and household switches.

6. Maintenance

The fushionsea wireless remote control switch system is designed for low maintenance. Follow these guidelines:

- **Cleaning:** Keep the receiver and transmitter clean and free from dust and moisture. Use a dry, soft cloth for cleaning.
- **Battery Replacement:** The transmitter uses an Alkaline battery. Replace the battery when the remote's range decreases or it becomes unresponsive. Ensure correct polarity when replacing.
- **Environmental Conditions:** Avoid exposing the device to extreme temperatures, direct sunlight, or corrosive environments.

7. Troubleshooting

- **Remote not responding:**
  - Check if the receiver is powered correctly (DC 12V-36V).

- Ensure the transmitter battery is not depleted.
- Re-pair the transmitter with the receiver (refer to Section 4.2).
- Verify that the remote is within the effective operating range (10-30 meters without obstacles).
- Check for strong interference sources (e.g., other 433MHz devices, large metal objects).

- **Relay does not activate/deactivate as expected:**
  - Confirm the correct working mode is set (Momentary, Toggle, Latched, etc.) as per Section 5.1.
  - Inspect wiring connections for looseness or incorrect polarity (refer to Section 4.1).
  - Ensure the connected load does not exceed the maximum 10A current rating.

- **Short range:**
  - Replace the transmitter battery.
  - Ensure the receiver's antenna is unobstructed and positioned for optimal reception.
  - Minimize physical obstructions (walls, metal structures) between the transmitter and receiver.

8. Safety Information

- Always disconnect power before installing or servicing the receiver.
- Ensure all wiring is done by a qualified individual and complies with local electrical codes.
- Do not exceed the maximum load current of 10A per channel. Overloading can damage the device and pose a fire hazard.
- This device is not intended for life-support systems or other applications where device failure could result in injury or death.
- Keep the device away from children.

9. Package Contents

The package includes the following items:

- 1 x fushionsea 4-Channel Wireless Remote Control Receiver (Model: AK-C211008)
- 1 x fushionsea Wireless Remote Control Transmitter (Model: AK-J027-4)

10. Warranty and Support

For warranty information or technical support, please refer to the seller's policy on the platform of purchase or contact fushionsea customer service directly. Please have your product model number (AK-C211008) and purchase details ready when contacting support.
For further assistance, you may visit the fushionsea brand store on Amazon.

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