

[Manuals.plus](#) /

› [DieseRC](#) /

› DieseRC AC 110V-240V Wireless Remote Control Light Switch Instruction Manual

DieseRC 2201O

DieseRC AC 110V-240V Wireless Remote Control Light Switch Instruction Manual

MODEL: 2201O

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your DieseRC AC 110V-240V Wireless Remote Control Light Switch. This device is designed to remotely control lighting or other electrical appliances using a 433Mhz RF relay receiver and two included keyfob transmitters. It offers stable and reliable performance with high reception sensitivity, allowing control within approximately 50 meters in open areas. Please read this manual carefully before use to ensure proper function and safety.

2. Safety Information

- **Electrical Safety:** Always disconnect power before installing or servicing the device to prevent electric shock. Installation should be performed by a qualified electrician if you are unsure.
- **Voltage Compatibility:** Ensure the input voltage (AC 90V-250V) matches your electrical system.
- **Load Capacity:** Do not exceed the maximum load capacity of 10 Amps or 1500 Watts to prevent damage to the device or connected appliances.
- **Indoor Use:** This device is primarily designed for indoor use. Avoid exposure to moisture, extreme temperatures, or corrosive environments.
- **Interference:** While designed for stable performance, strong electromagnetic interference may affect signal reception.

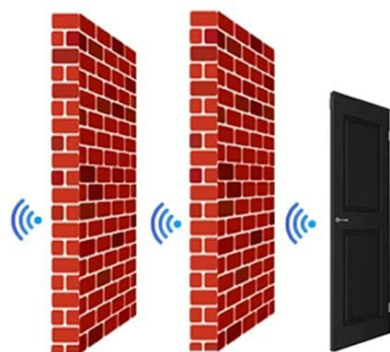
3. Product Overview

The DieseRC Wireless Remote Control Light Switch system consists of a compact RF relay receiver and two portable keyfob transmitters.



Figure 3.1: The complete DieseRC wireless remote control kit, showing the compact receiver module and two keyfob transmitters.

PRODUCT DETAIL



Input volts : AC 90V~250V
Output volts : AC 90V~250V



Figure 3.2: Detailed view highlighting the learning button and indicator light on the receiver, and the metal buttons, indicator light, chrome bezel, and sliding closure on the keyfob transmitter.

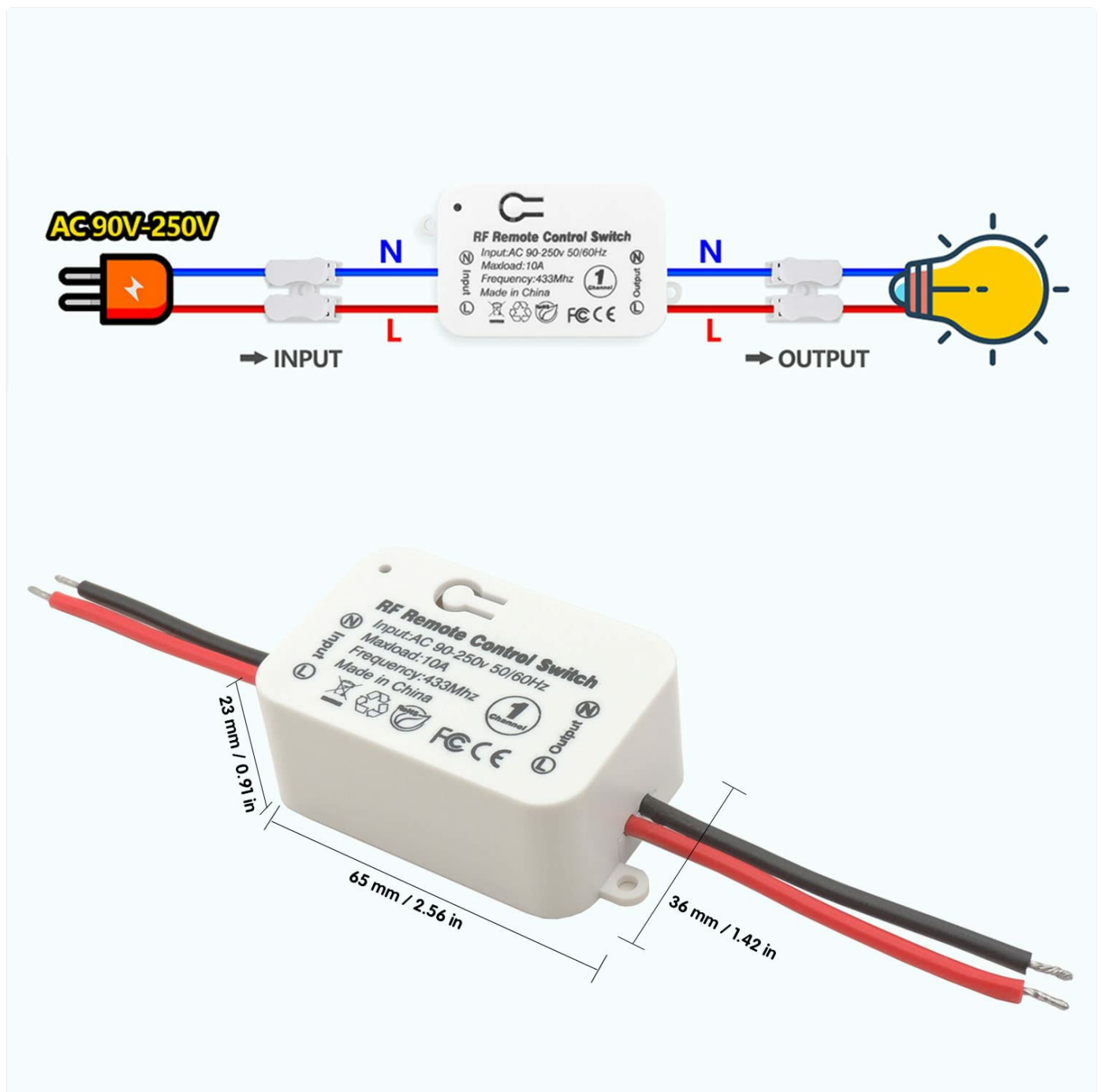


Figure 3.3: Dimensions of the receiver module: approximately 65mm (2.56 inches) in length, 36mm (1.42 inches) in width, and 23mm (0.91 inches) in height.

4. Technical Specifications

Feature	Specification
Model Number	2201O
Input Voltage	AC 90V-250V
Max Load Current	10 Amps
Max Load Wattage	1500 Watts
RF Frequency	433Mhz

Feature	Specification
Control Distance	Up to 50 meters (open area)
Operating Modes	Momentary, Toggle, Latched
Receiver Dimensions	2.56 x 1.42 x 0.91 inches (65 x 36 x 23 mm)
Transmitter Battery	1 x 27A 12V (included)
Receiver Memory	Stores up to 20 transmitters

5. Setup and Wiring

The receiver is designed for easy installation between your power supply and the device you wish to control. No complex wiring is required beyond connecting the input and output wires.



Figure 5.1: Basic wiring diagram showing the receiver connected between an AC 90V-250V power source and a light fixture.

5.1. Wiring Instructions:

1. **Disconnect Power:** Before any wiring, ensure the main power supply to the circuit is turned off.
2. **Identify Wires:** The receiver has input (L/N) and output (L/N) terminals. Typically, red is Live (L) and black is Neutral (N).
3. **Connect Input:** Connect the AC 90V-250V power supply's Live wire to the receiver's 'Input L' terminal and the Neutral wire to the 'Input N' terminal.
4. **Connect Output:** Connect the Live wire of your appliance (e.g., lamp) to the receiver's 'Output L' terminal and the Neutral wire to the 'Output N' terminal.
5. **Secure Connections:** Ensure all wire connections are secure. The receiver is packaged in a box for safer use.

5.2. Programming the Transmitters:

The receiver supports three operating modes: Momentary, Toggle, and Latched. The product is typically pre-set to Latched mode. You can program the receiver to your desired mode by following the steps below. Refer to the video for a visual guide.

Your browser does not support the video tag.

Video 5.2: A detailed demonstration on how to program the DieseRC 2201O receiver for different operating modes (Momentary, Toggle, Latched) and how to reset it.

Resetting the Receiver:

To clear all programmed transmitters, press the learning button on the receiver **8 times**. The indicator light will flash to confirm the reset.

Programming Toggle Mode:

Press the learning button on the receiver **2 times**. The indicator light will flash. Then, press the desired button on your transmitter (e.g., button 'A'). The indicator light will flash again, confirming successful programming. In Toggle mode, one press turns the light ON, and another press turns it OFF.

Programming Latched Mode:

Press the learning button on the receiver **3 times**. The indicator light will flash. Then, press button 'A' on your transmitter, followed by button 'B'. The indicator light will flash again, confirming successful programming. In Latched mode, pressing button 'A' turns the light ON, and pressing button 'B' turns it OFF.

Programming Momentary Mode:

Press the learning button on the receiver **4 times**. The indicator light will flash. Then, press the desired button on your transmitter (e.g., button 'A'). The indicator light will flash again, confirming successful programming. In Momentary mode, the light stays ON only while the button is pressed and turns OFF when released.

Default Original State (Power-on State):

To set the receiver to switch its state (turn on/off) when power returns after an outage, press the learning button on the receiver **7 times**. The indicator light will flash to confirm this setting.

6. Operating the Device

Once the receiver is wired and programmed, you can operate your connected appliance using the remote control transmitters according to the programmed mode.

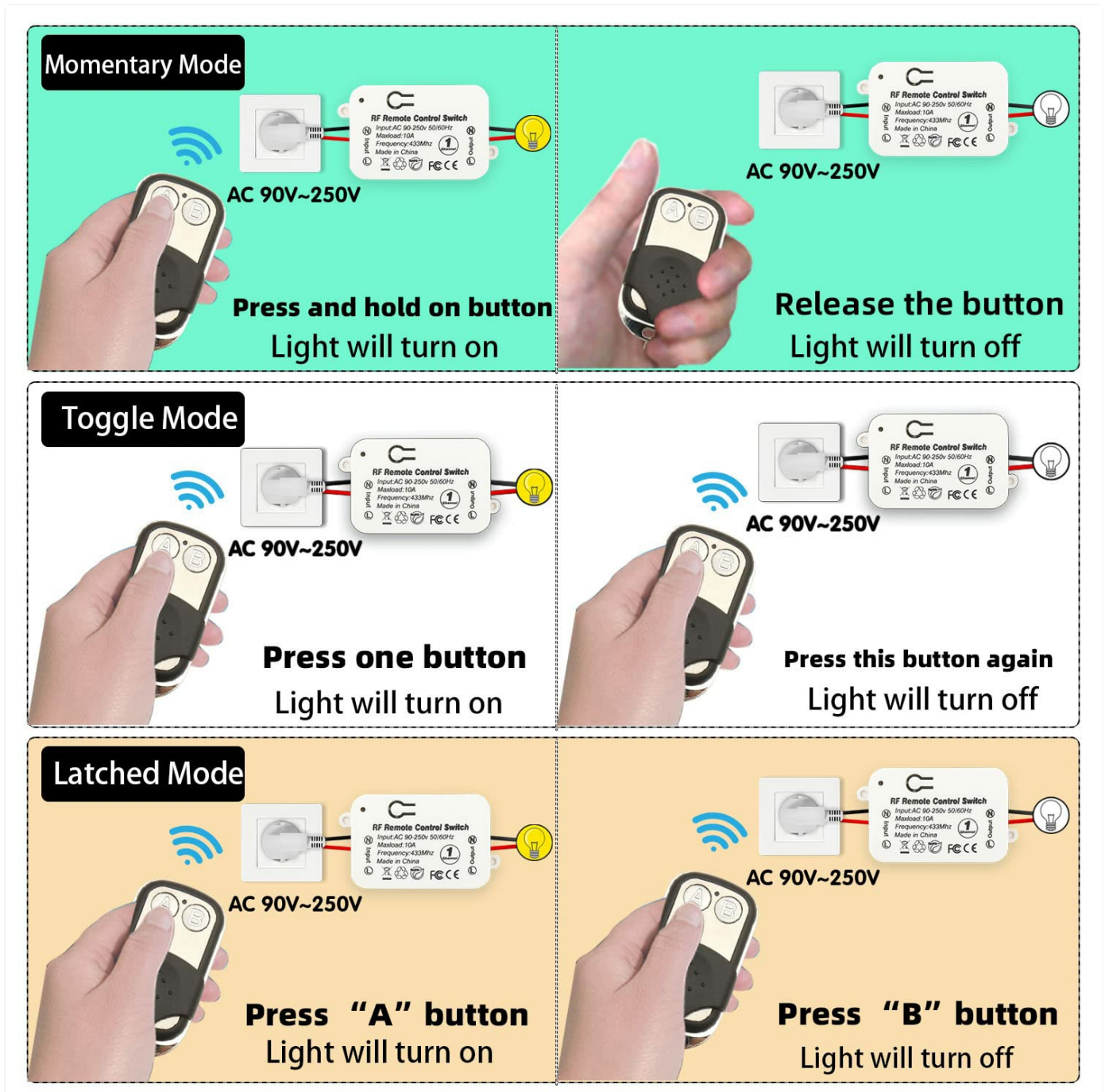


Figure 6.1: Visual representation of the three programmable operating modes: Momentary, Toggle, and Latched, showing how the light responds to button presses.

- **Momentary Mode:** Press and hold the programmed button on the remote to turn the light ON. Release the button to turn the light OFF.
- **Toggle Mode:** Press the programmed button once to turn the light ON. Press the same button again to turn the light OFF.
- **Latched Mode:** Press button 'A' on the remote to turn the light ON. Press button 'B' on the remote to turn the light OFF.

7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the receiver and transmitters. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** The keyfob transmitters use a 27A 12V battery. If the remote's range decreases or the indicator light on the remote does not illuminate, replace the battery. The battery can be replaced after disassembling the keyfob.

- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.

8. Troubleshooting Common Issues

- **Light does not respond to remote:**
 - Check if the receiver has power.
 - Ensure the transmitter battery is not depleted. Replace if necessary.
 - Verify that the transmitter is correctly programmed to the receiver for the desired mode. Try re-programming.
 - Check for strong electromagnetic interference in the area.
 - Ensure the remote is within the effective range (50 meters in open area). Walls and obstacles can reduce range.
- **Light turns on/off unexpectedly:**
 - This may indicate interference from other RF devices.
 - Ensure no other remote is accidentally triggering the receiver.
 - Consider resetting the receiver and re-programming only the desired transmitters.
- **Receiver indicator light not on:**
 - Check the power supply to the receiver.
 - Verify wiring connections are secure and correct.

9. Warranty and Support

DieseRC is committed to providing high-quality products and excellent after-sales service. Our products are manufactured by DieseRC and undergo rigorous quality control.

For any questions, technical support, or warranty inquiries, please contact us directly:

- **Manufacturer:** DieseRC
- **Service Email:** diseelectronic@163.com

We will do our best to resolve any issues you may encounter with your product.

© 2023 DieseRC. All rights reserved.

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

Open the live page

<https://manuals.plus/asin/B0B5XJ17P8>

More documents and user manuals: <https://manuals.plus/>