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 - › DieseRC Wireless Remote Control Switch DC 12V/ 24V 10A RF Relay Receiver with 2 Transmitters User Manual

DieseRC 5301O

DieseRC Wireless Remote Control Switch User Manual

Model: 5301O | Brand: DieseRC

DC 12V/ 24V 10A RF Relay Receiver with 2 Transmitters for Ceiling Lights, Lamps, LED and Industrial Control

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your DieseRC Wireless Remote Control Switch. This device is designed to provide convenient remote control for various electrical appliances such as ceiling lights, lamps, LEDs, and other industrial control applications. Please read this manual thoroughly before use to ensure proper and safe operation.



Figure 1: DieseRC Wireless Remote Control Switch Kit, including the receiver and two remote transmitters.

2. PRODUCT FEATURES

- **High Sensitivity RF Control:** Operates on 433Mhz RF frequency with high reception sensitivity ($> 97\text{dBm}$) for stable and reliable performance.
- **Extended Range:** Strong signal penetration through walls, floors, and doors, allowing control within 50 meters in open areas.
- **Multiple Operating Modes:** Supports Momentary, Toggle, Latched, and Delay modes, easily configurable to suit various application needs.
- **High Load Capacity:** Equipped with a 10A relay, capable of controlling high-power electrical appliances for long-term stability.
- **Safe Voltage Range:** Compatible with DC 6V~36V, including common DC 12V, 24V, and 30V systems.
- **Multi-User Control:** One receiver can store up to 20 transmitters, enabling multiple users to control the same device.

3. SETUP AND INSTALLATION

3.1. Wiring Instructions

Ensure power is disconnected before performing any wiring. The receiver has input and output terminals. Connect your DC power source to the input terminals and your appliance to the output terminals. The terminals are screw buckles for secure connections.

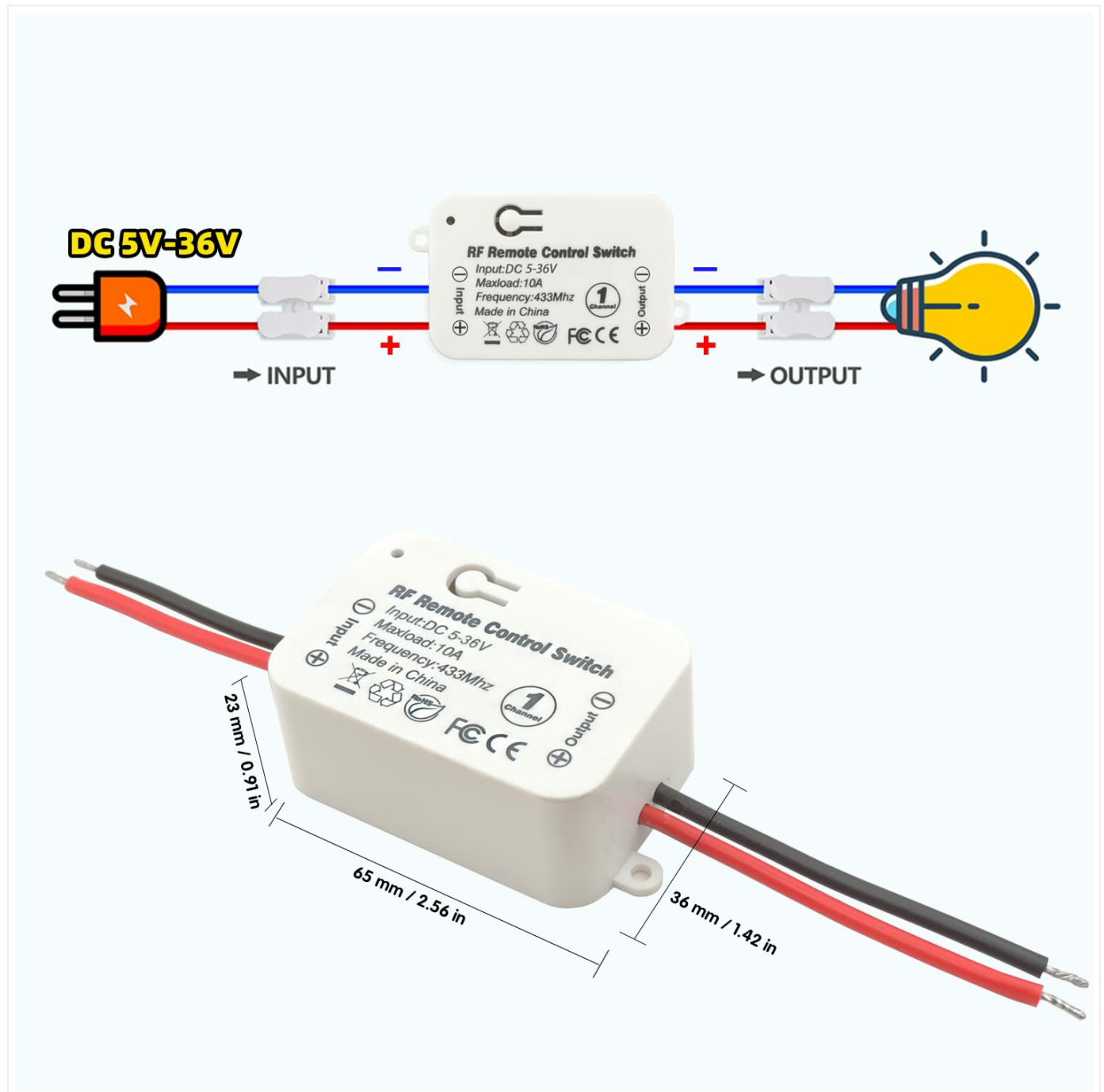


Figure 2: Wiring diagram showing DC power input and appliance output connections to the receiver.

PRODUCT DETAIL



Figure 3: Close-up view of the receiver, highlighting the input/output terminals and the learning button.

3.2. Programming the Remote Control (Learning Mode)

The receiver supports various operating modes. Follow the steps below to program your remote control to the desired mode. The product is typically set to Latched mode by default.

1. **Resetting the Receiver:** To clear all previous programming, press the learning button on the receiver **8 times**. The indicator light will flash to confirm the reset.
2. **Toggle Mode Programming:**
 - a. Press the learning button on the receiver **2 times**.
 - b. The indicator light will flash. Press any button on your remote control (e.g., button 'A' or 'B').
 - c. The indicator light will flash rapidly and then turn off, indicating successful programming. In Toggle mode, one press turns the device ON, and another press turns it OFF.
3. **Latched Mode Programming:**
 - a. Press the learning button on the receiver **3 times**.
 - b. The indicator light will flash. Press button 'A' on your remote control.

c. Then, press button 'B' on your remote control.

d. The indicator light will flash rapidly and then turn off, indicating successful programming. In Latched mode, button 'A' turns the device ON, and button 'B' turns it OFF.

4. Momentary Mode Programming:

a. Press the learning button on the receiver **4 times**.

b. The indicator light will flash. Press any button on your remote control (e.g., button 'A' or 'B').

c. The indicator light will flash rapidly and then turn off, indicating successful programming. In Momentary mode, the device stays ON only while the remote button is pressed and turns OFF upon release.

5. Default Original State Programming:

a. Press the learning button on the receiver **7 times**.

b. The indicator light will flash rapidly and then turn off. This mode allows the device to return to its last known ON/OFF state when power is restored after an outage.

How to get the signal --Set up

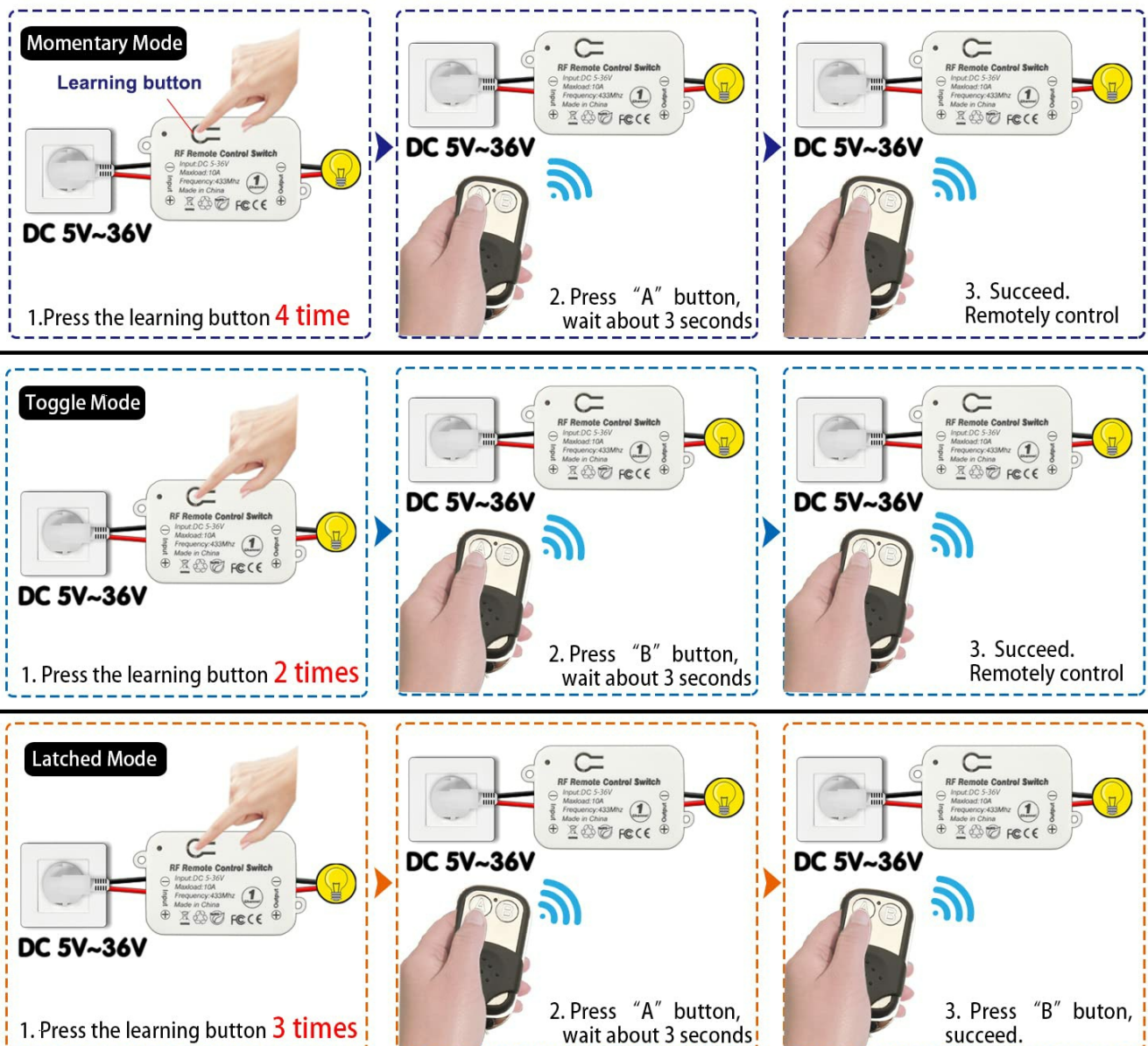


Figure 4: Visual guide for programming the receiver into Momentary, Toggle, and Latched modes.

4. OPERATING MODES EXPLAINED

Understanding the different operating modes is crucial for effective use of your remote control switch.

4.1. Momentary Mode

In Momentary mode, the connected device will remain ON only as long as the remote control button is pressed. Releasing the button will turn the device OFF. This mode is ideal for applications requiring temporary activation, such as garage door openers or electric locks.

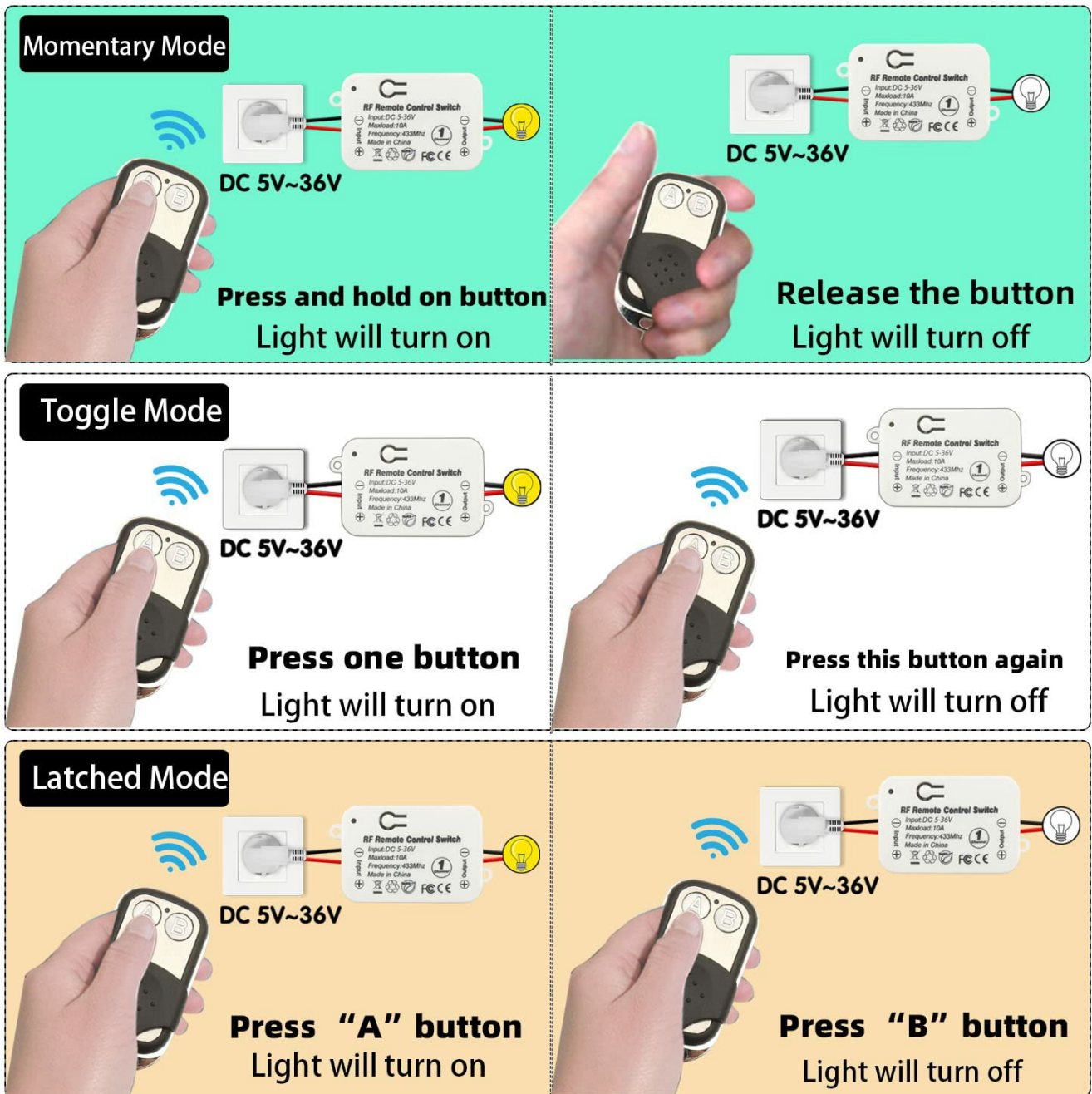


Figure 5: Illustration of Momentary mode: Press and hold button to turn ON, release to turn OFF.

4.2. Toggle Mode

Toggle mode functions like a standard light switch. Pressing the remote button once will turn the connected device ON,

and pressing the same button again will turn it OFF. This mode is suitable for general lighting control.

Figure 6: Illustration of Toggle mode: Press button once to turn ON, press again to turn OFF.

4.3. Latched Mode

Latched mode uses two distinct buttons for ON and OFF functions. Pressing button 'A' (or a designated ON button) will turn the device ON, and it will remain ON until button 'B' (or a designated OFF button) is pressed. This mode is useful for applications where separate ON/OFF controls are preferred.

Figure 7: Illustration of Latched mode: Press 'A' button to turn ON, press 'B' button to turn OFF.

4.4. Default Original State

When configured to Default Original State, the receiver will remember its last ON/OFF status. If power is interrupted and then restored, the device will revert to the state it was in before the power loss. This ensures continuity of operation for critical systems.

5. MAINTENANCE

The DieseRC Wireless Remote Control Switch is designed for durability and requires minimal maintenance. Keep the receiver and transmitters clean and dry. Avoid exposing them to extreme temperatures or humidity. If the remote control range decreases, consider replacing the battery in the transmitter.

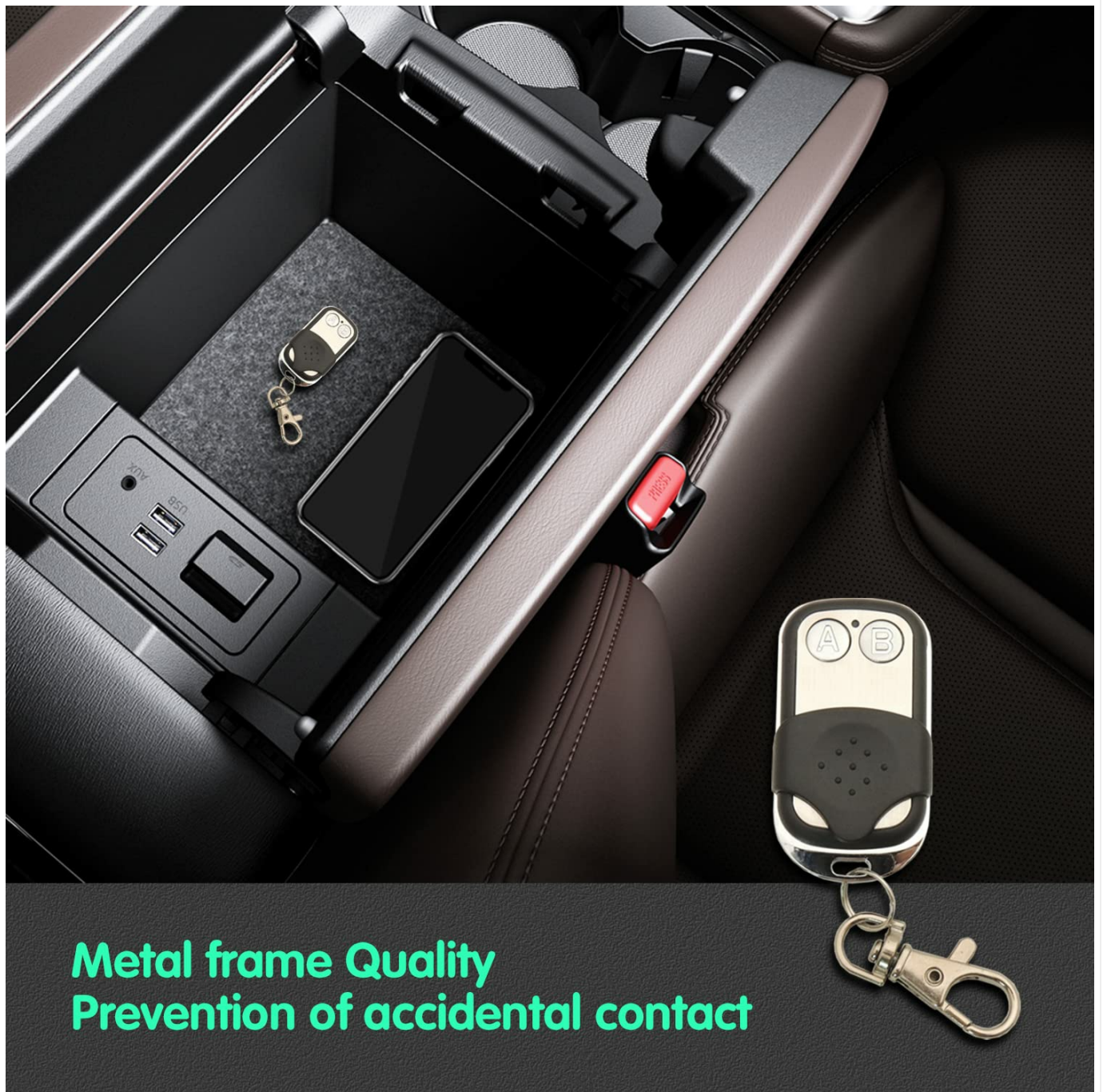


Figure 8: The remote control features a durable metal frame to prevent accidental contact and ensure longevity.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not respond to remote.	1. Incorrect programming. 2. Remote control battery low/dead. 3. Receiver not powered. 4. Obstruction or excessive distance.	1. Reset the receiver and reprogram the remote control (refer to Section 3.2). 2. Replace the battery in the remote transmitter. 3. Verify power supply to the receiver. 4. Reduce distance between remote and receiver, remove obstructions.

Problem	Possible Cause	Solution
Remote control range is poor.	1. Environmental interference. 2. Low remote control battery.	1. Avoid placing the receiver near large metal objects or strong electromagnetic fields. 2. Replace the battery in the remote transmitter.
Device turns ON/OFF unexpectedly.	1. Interference from other RF devices. 2. Incorrect operating mode set.	1. Reset the receiver and reprogram to a different mode if possible, or identify and remove interfering devices. 2. Verify the programmed operating mode (refer to Section 3.2).

7. PRODUCT SPECIFICATIONS

Feature	Detail
Model Number	5301O
Brand	DieseRC
Product Dimensions	2.56 x 1.42 x 0.91 inches; 4.94 ounces
Input Voltage	DC 6V~36V
Max Current	10 Amps
RF Frequency	433Mhz
Control Distance	Up to 50 meters (open area)
Operating Modes	Momentary, Toggle, Latched, Default Original State
Connector Type	Normally Open
Contact Type	Screw

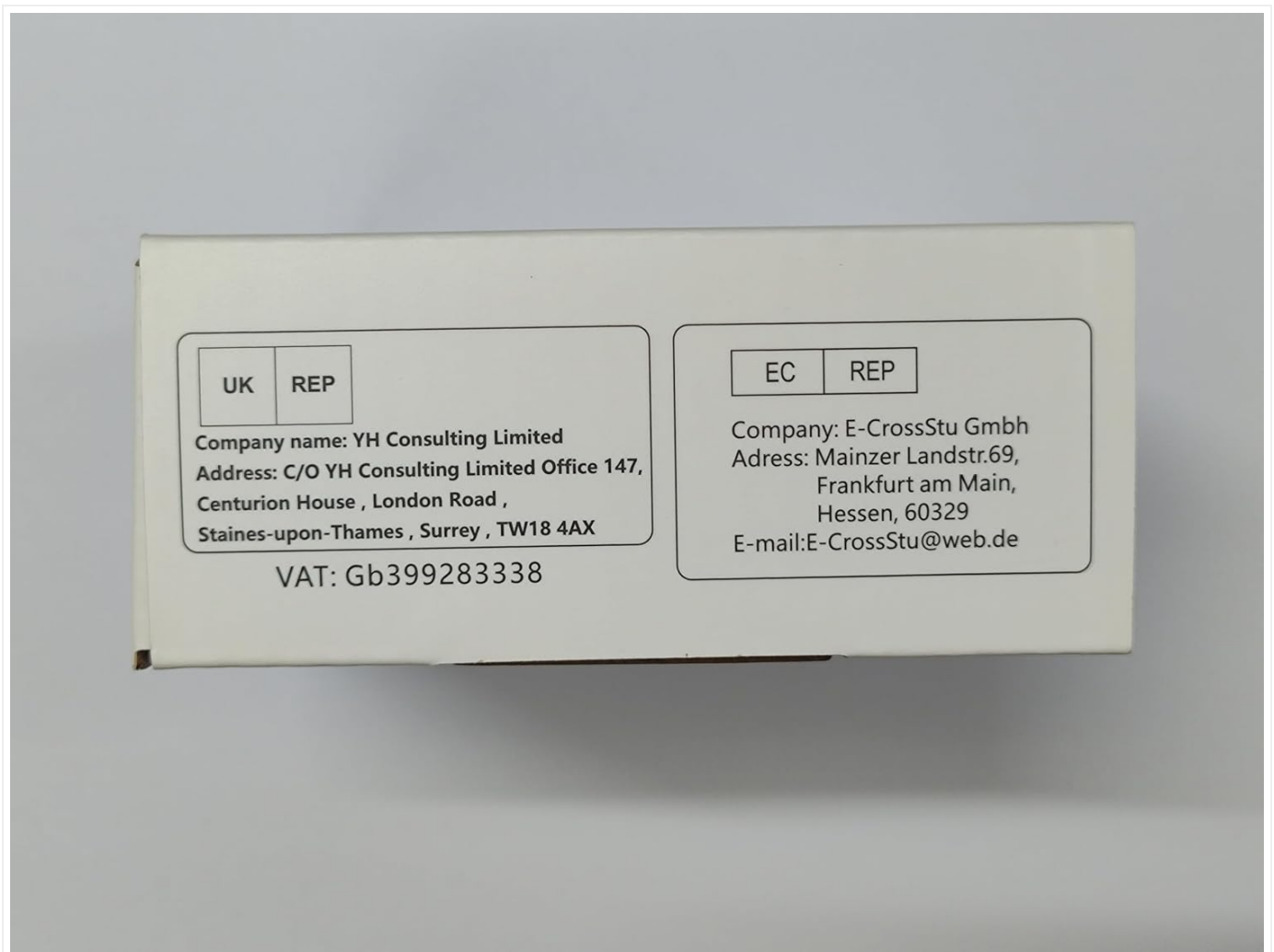


Figure 9: Physical dimensions of the DieseRC Wireless Remote Control Switch receiver.

8. WHAT'S IN THE BOX

- 1 x DieseRC RF Relay Receiver
- 2 x Remote Transmitters

9. WARRANTY AND SUPPORT

For any questions, technical support, or warranty inquiries, please contact DieseRC customer service. The manufacturer is DieseRC (Huizhou Wenqiao Electronic Technology Co., Ltd.).

Service Email: dieseelectronic@163.com



Figure 10: DieseRC Company Logo.

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