DieseRC 2201NB+WP40

DieseRC Kinetic Wireless Light Switch and 10A Relay Receiver Kit User Manual

Model: 2201NB+WP40

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your DieseRC Kinetic Wireless Light Switch and 10A Relay Receiver Kit. Please read this manual thoroughly before installation and use to ensure safe and efficient operation.
The DieseRC Kinetic Wireless Light Switch system offers a convenient and energy-efficient solution for controlling lighting and other electrical appliances. It features a self-generating switch that requires no batteries and an RF 433 MHz relay receiver with a 10A fuse for protection.

Safety Information

- Always disconnect power at the circuit breaker before installing or servicing the receiver.
- Installation should be performed by a qualified electrician or a person with sufficient electrical knowledge.
- Ensure the receiver's load does not exceed 1500W (10A at 110V-240V AC).
- The wireless switch is IPX4 waterproof, suitable for damp environments, but avoid submerging it in water.
- Do not attempt to repair or modify the device. Contact customer support for assistance.

Setup and Installation

1. Package Contents

- 1 x DieseRC Kinetic Wireless Switch
- 1 x DieseRC 10A Relay Receiver
- Mounting accessories (screws, double-sided tape)
- User Manual

2. Component Overview

Image: Overview of the DieseRC Kinetic Wireless Light Switch and the 10A Relay Receiver.

Image: Detailed view of the wireless switch (86x86x11mm) and receiver (60x43x27mm), highlighting the learning button, indicator light, and fuse compartment.

The wireless switch is self-powered and measures approximately 86mm x 86mm x 11mm. The compact relay receiver measures 60mm x 43mm x 27mm and includes a learning button, indicator light, and a replaceable 10A fuse.

3. Receiver Wiring

The receiver must be wired between the power supply (AC 110V-240V) and the appliance you wish to control. Ensure power is disconnected before wiring.

1. Identify the Live (L) and Neutral (N) wires from your power supply.
2. Connect the Live (L) wire from the power supply to the 'L INPUT' terminal on the receiver.

3. Connect the Neutral (N) wire from the power supply to the 'N INPUT' terminal on the receiver.
4. Connect the Live (L) wire of your appliance (e.g., light fixture) to the 'L OUTPUT' terminal on the receiver.
5. Connect the Neutral (N) wire of your appliance to the 'N OUTPUT' terminal on the receiver.
6. Ensure all connections are secure.

Image: Wiring diagram showing connections for Live (L) and Neutral (N) input and output to the receiver and a light fixture.

The receiver is designed to handle a maximum load of 1500W and operates on AC 110V-240V. It includes a 10A fuse for overload protection.

4. Switch Placement

The kinetic wireless switch requires no wiring or batteries, offering flexible placement options:

- **Wall Mount:** Use the provided screws or double-sided tape to fix the switch to any wall surface.
- **Glass Surface:** The double-sided tape allows for mounting on glass.
- **Portable Use:** The switch can be placed on a table or carried as a portable remote control.

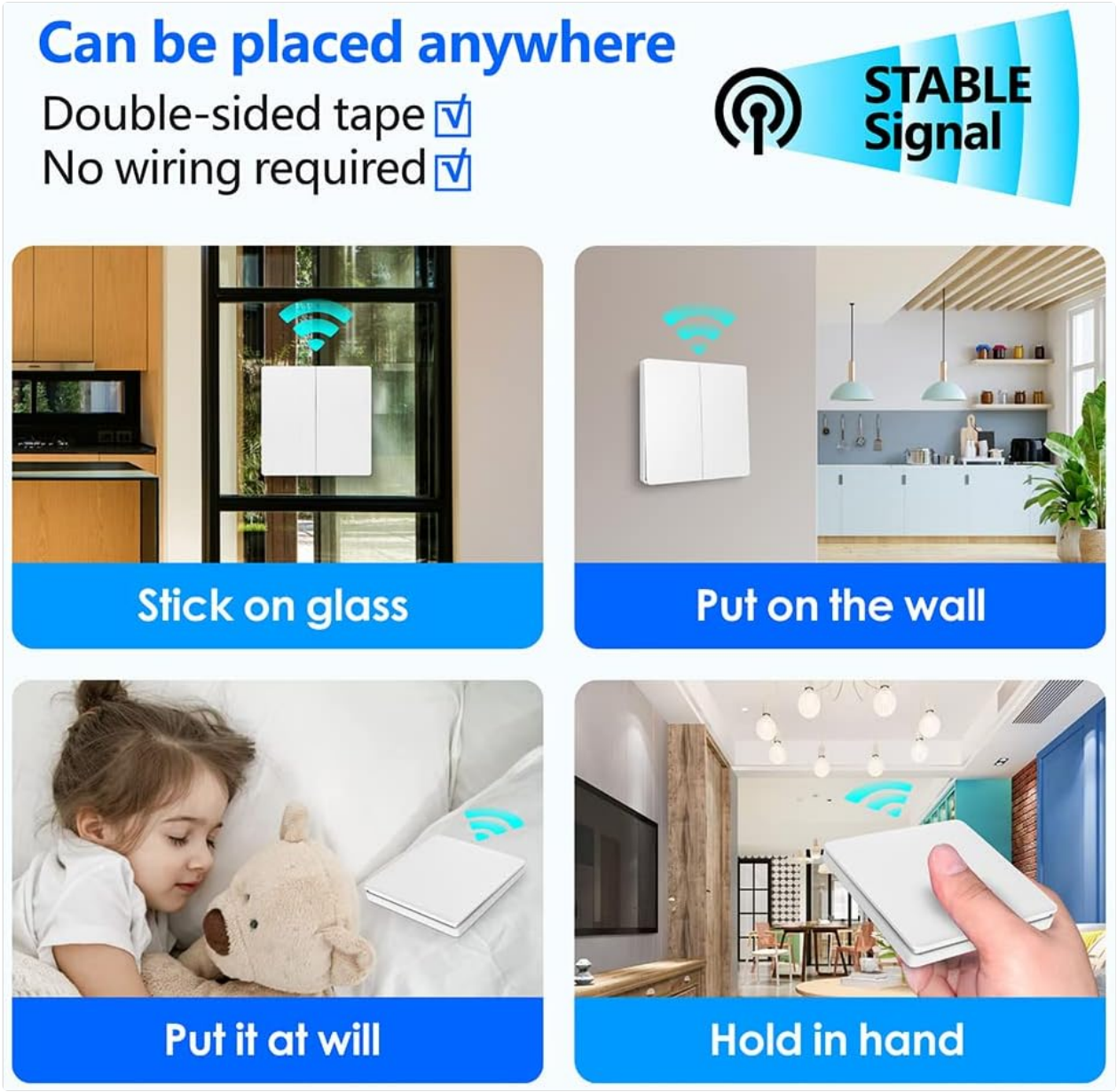

Image: Examples of flexible switch placement: on glass, on a wall, placed on a surface, or held in hand.

Operation

1. Pairing the Wireless Switch with the Receiver

To establish communication between the wireless switch and the receiver, follow these pairing steps:

1. Press and hold the learning button on the receiver for approximately 3-5 seconds. The blue indicator light on the receiver will illuminate. Release the button.
2. Within a few seconds, press one button on the kinetic wireless wall switch once.
3. The indicator light on the receiver will flash, indicating successful pairing.

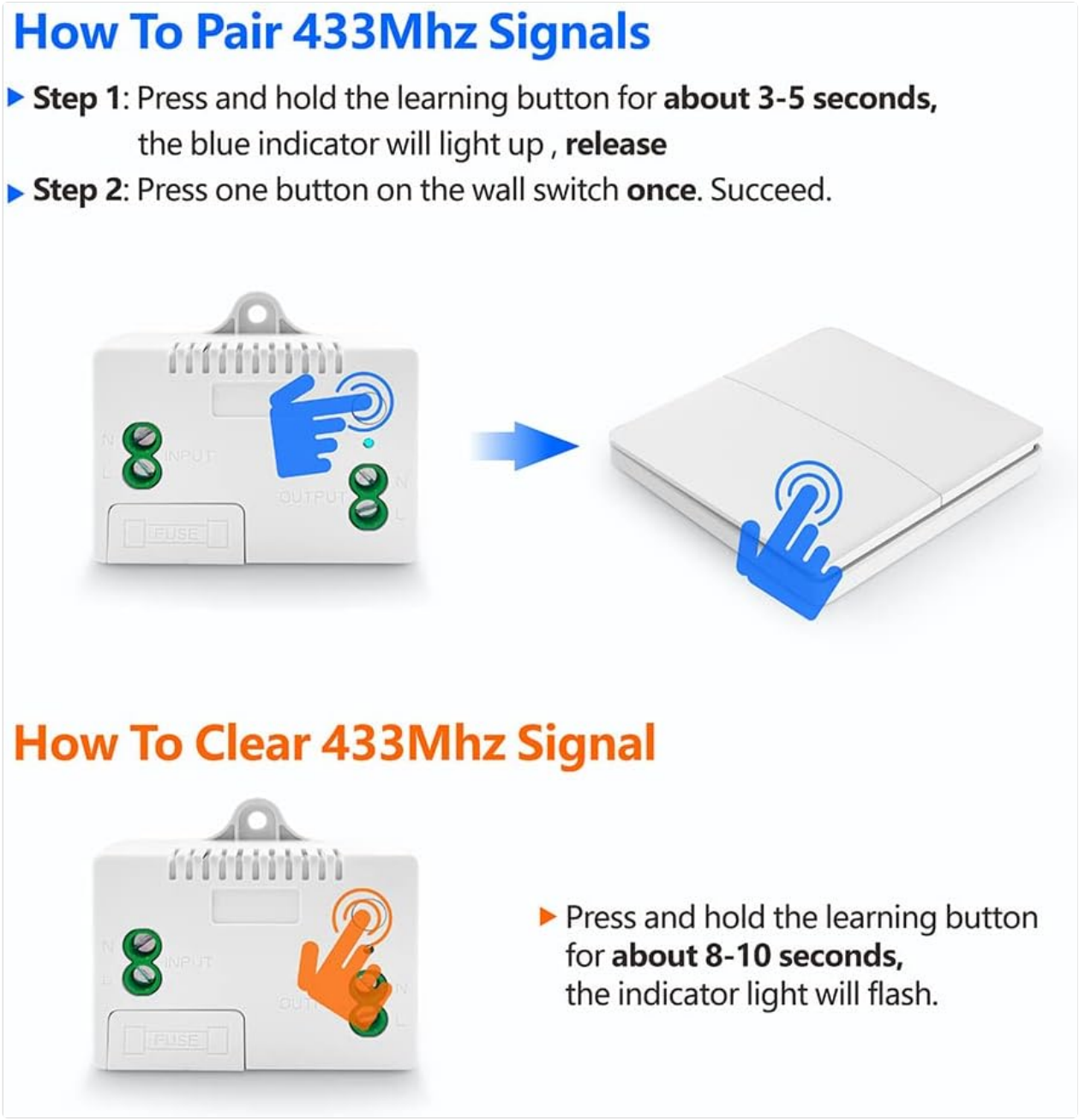

Image: Visual guide for pairing the wireless switch with the receiver, showing the learning button and switch press.

Once paired, pressing the switch will toggle the connected appliance ON or OFF.

2. Clearing the Paired Signal

To clear all paired signals from the receiver (e.g., when replacing a switch or reconfiguring):

- Press and hold the learning button on the receiver for approximately 8-10 seconds.
- The indicator light will flash multiple times, confirming that all stored signals have been cleared.

3. Multi-Control Scenarios

The system supports flexible control configurations:

- **Multiple Switches, One Receiver:** You can pair up to 5 wireless switches with a single receiver, allowing control from various locations (e.g., top and bottom of stairs).
- **One Switch, Multiple Receivers:** A single wireless switch can be paired with multiple receivers to control several appliances simultaneously or in different areas.

Image: Illustrations demonstrating how multiple switches can control one receiver, and one switch can control multiple receivers.

Image: Example of using multiple wireless switches to control staircase lighting, enhancing convenience and energy saving.

4. Control Distance and Signal Penetration

The system utilizes RF 433 MHz radio frequency for signal transmission. A strong signal can pass through walls, floors, and doors. The typical indoor control distance is up to 50 meters. In open outdoor spaces, the control distance can extend up to 100 meters.

Image: Diagram showing the wireless signal penetrating walls within a house, demonstrating the 50-meter indoor control range.

Maintenance

- **Cleaning:** Wipe the switch and receiver with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Fuse Replacement:** The receiver contains a replaceable 10A fuse. If the receiver stops functioning due to an overload, disconnect power, open the fuse compartment, and replace the fuse with one of the same rating (10A).
- **Self-Powered Switch:** The kinetic switch does not require battery replacement. Its self-generating mechanism is designed for long-term use (over 200,000 clicks).
- **Relay Lifespan:** The high-quality relay in the receiver is designed for over 400,000 operations.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Appliance does not turn ON/OFF.	◦ No power to the receiver. ◦ Switch not paired with receiver. ◦ Receiver fuse blown. ◦ Appliance malfunction.	◦ Check power supply to the receiver. ◦ Perform pairing steps (see "Pairing the Wireless Switch with the Receiver"). ◦ Check and replace the 10A fuse in the receiver. ◦ Test the appliance directly to ensure it is functional.
Reduced control distance or intermittent operation.	◦ Excessive interference from other RF devices. ◦ Obstructions (thick walls, metal objects) between switch and receiver. ◦ Distance exceeds maximum range.	◦ Relocate the receiver or switch to minimize interference. ◦ Ensure there are no major metallic obstructions. ◦ Operate within the specified 50m indoor range.
Switch feels stiff or unresponsive.	◦ Mechanical issue with the kinetic mechanism.	◦ Ensure the switch is clean and free from debris. If the issue persists, contact customer support.

SPECIFICATIONS

Feature	Detail
Brand	DieseRC
Model Number	2201NB+WP40
Switch Type	Kinetic Wireless Self-Generating Switch
Receiver Type	RF 433 MHz Relay Receiver
Operating Voltage (Receiver)	AC 110V-240V
Max Load (Receiver)	10A / 1500W
Fuse	10A (Replaceable)
Wireless Frequency	433 MHz
Indoor Control Distance	Up to 50 meters
Outdoor Control Distance	Up to 100 meters (open space)
Switch Lifespan	> 200,000 clicks
Relay Lifespan	> 400,000 operations
Waterproof Rating (Switch)	IPX4
Material	Plastic

Feature	Detail
Switch Dimensions (L x W x H)	86mm x 86mm x 11mm
Receiver Dimensions (L x W x H)	60mm x 43mm x 27mm
Operating Mode	ON-OFF
Connector Type	Screw Terminals

Warranty Information

DieseRC products are manufactured to high-quality standards. Specific warranty details may vary by region and retailer. Please retain your proof of purchase for any warranty claims. For detailed warranty terms, refer to the documentation provided with your purchase or contact DieseRC customer support.

Customer Support

If you encounter any issues or have questions regarding your DieseRC Kinetic Wireless Light Switch and 10A Relay Receiver Kit, please contact DieseRC customer support through your retailer or the official DieseRC website. Our team is dedicated to providing assistance and resolving any concerns you may have.

Related Documents - 2201NB+WP40

	DieseRC 2202G Relay Remote Control Switch Product Manual Comprehensive product manual for the DieseRC 2202G Relay Remote Control Switch. Details technical specifications, operating modes (momentary, toggle, latched), programming instructions, wiring diagrams, troubleshooting, and customer support information for this 433MHz RF wireless relay.
	DieseRC 2402 Relay Remote Control Switch User Manual User manual for the DieseRC 2402 Relay Remote Control Switch. This document provides detailed product information, technical specifications, wiring diagrams, operating modes (Momentary, Toggle, Latched), programming instructions, reset procedures, and troubleshooting guidance.
	DieseRC Relay Remote Control Switch Type 2201 - User Manual Comprehensive user manual for the DieseRC Type 2201 Relay Remote Control Switch, detailing technical specifications, wiring diagrams, operating modes (Momentary, Toggle, Latched), programming instructions, troubleshooting, and contact information.
	DieseRC 2202 Relay Remote Control Switch - Product Manual This product manual provides detailed information for the DieseRC 2202 Relay Remote Control Switch. It covers technical specifications, operating modes (Momentary, Toggle, Latched), programming instructions, troubleshooting tips, and customer support contact details from Huizhou Wenqiao Electronic Technology Co., Ltd.

	DieseRC 5301 Wireless Remote Control Switch Manual User manual for the DieseRC 5301 Wireless Remote Control Switch, detailing technical specifications, wiring diagrams, operating modes (Momentary, Toggle, Latched, Delay), programming instructions, and troubleshooting.
	DieseRC 5302G Relay Remote Control Switch Product Manual Product manual for the DieseRC 5302G Relay Remote Control Switch. Includes technical data, wiring diagrams, operating modes (Momentary, Toggle, Latched), programming instructions, and troubleshooting for this 433MHz RF receiver.