DieseRC RX26

DieseRC 1-Channel Wireless Remote Control Relay Switch (433MHz, 220V-240V)

Model: RX26
Brand: DieseRC

1. Introduction

Thank you for choosing the DieseRC 1-Channel Wireless Remote Control Relay Switch. This device offers a convenient and flexible solution for controlling various electrical appliances remotely. Operating on a 433MHz radio frequency, it provides stable and reliable performance, allowing control through walls, floors, and doors within a range of up to 30 meters in open areas. This manual will guide you through the installation, programming, and operation of your new remote control system.

2. Product Overview

The DieseRC wireless remote control system consists of a receiver module and multiple transmitters (remote controls). The receiver features a high-quality 5A relay, ensuring durability and stable operation for over 100,000 cycles. It supports a wide voltage range of 100V-250V AC, making it compatible with 220V, 230V, and 240V systems. The transmitters use EV1527 learning code technology for secure communication and are powered by 2x CR2016 or 1x CR2032 batteries (included).

Image: Detailed view of the DieseRC receiver module and remote control, highlighting components like ON/OFF buttons, indicator light, silicone button, metal keychain, chrome bezel, learning button, antenna, and terminals (NO, COM, NC, L, N).

3. Specifications

Feature	Detail
Brand	DieseRC
Model Number	RX26 (2201COM)
Operating Frequency	433MHz
Receiver Voltage	AC 100V~250V
Relay Type	Potential-Free Contacts (Dry Contacts)
Relay Current	5A
Transmitter Battery	2x CR2016 or 1x CR2032 (included)

Control Range	Up to 30 meters (open area)
Learning Code	EV1527
Components Included	1 Receiver, 5 Transmitters

4. Safety Information

- Always disconnect power before installing or performing any maintenance on the receiver module.
- Ensure all wiring is done by a qualified professional if you are unsure.
- Do not expose the device to moisture or extreme temperatures.
- Verify correct voltage and current ratings before connecting any appliance.
- Keep remote controls out of reach of children.

5. Setup and Wiring

The receiver module is designed for easy integration into existing electrical systems. It provides potential-free (dry) contacts, meaning it acts as a switch without supplying power itself. You will connect your appliance's control circuit to these contacts.

5.1 Component Identification

Image: Detailed view of the DieseRC receiver module, showing the learning button, indicator light, antenna, and terminals: NO (Normally Open), COM (Common), NC (Normally Closed), L (Live), N (Neutral).

5.2 Wiring Diagram

The receiver has three output terminals: NO (Normally Open), COM (Common), and NC (Normally Closed). These act as a switch. The receiver itself requires AC 100V-250V power connected to the L and N terminals.

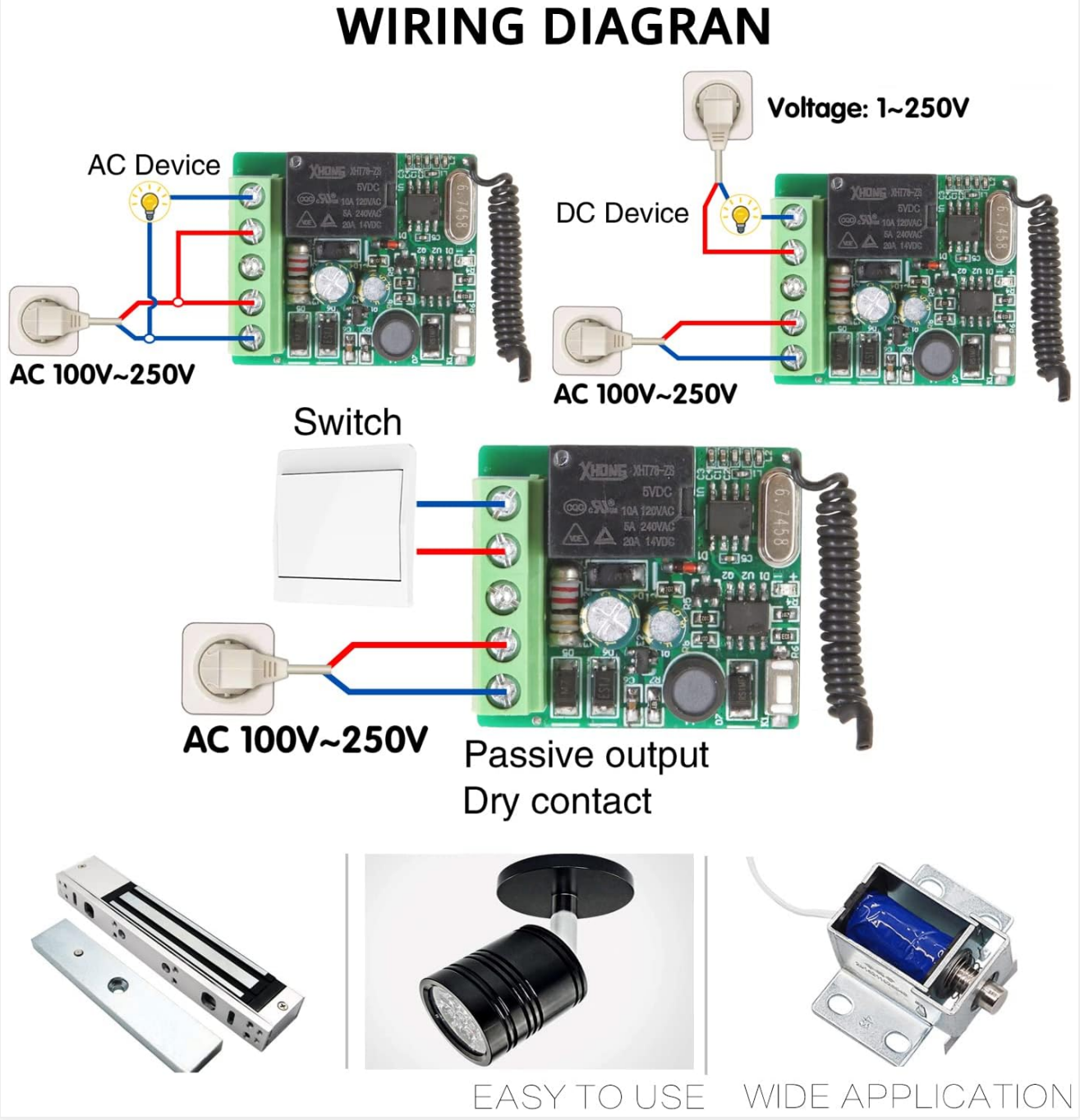

Image: Wiring diagrams for AC and DC devices, and a switch. The receiver is powered by AC 100V-250V. For AC devices, the live wire from the power source connects to the COM terminal, and the NO terminal connects to the device. For DC devices, the positive wire from the DC power source connects to the COM terminal, and the NO terminal connects to the device. For a simple switch, the live wire from the AC 100V-250V source connects to the COM terminal, and the NO terminal connects to the load, effectively creating a dry contact switch.

Example for Garage Door Opener: Connect the NO and COM terminals of the receiver in parallel with the existing wall button/console of your garage door opener. The receiver will then simulate a button press when activated by the remote.

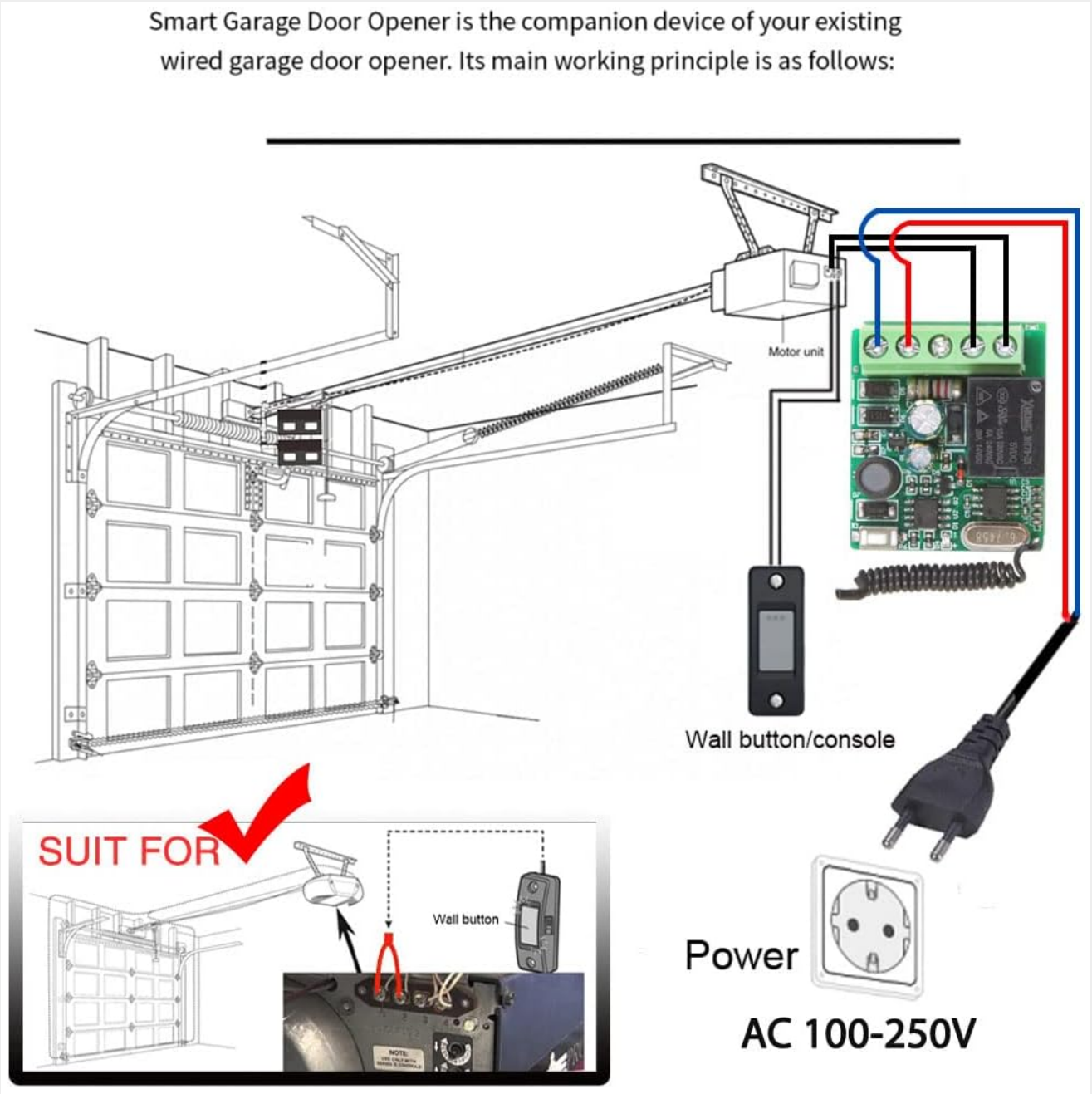

Image: Diagram showing the DieseRC receiver wired to a garage door opener motor unit and a wall button. The receiver's NO and COM terminals are connected in parallel to the wall button's terminals, allowing remote control of the garage door. The receiver is powered by AC 100-250V.

6. Operating Modes

The receiver supports four operating modes: Momentary, Toggle, Latched, and Delay. The default mode is Latched. You can program the receiver to your desired mode.

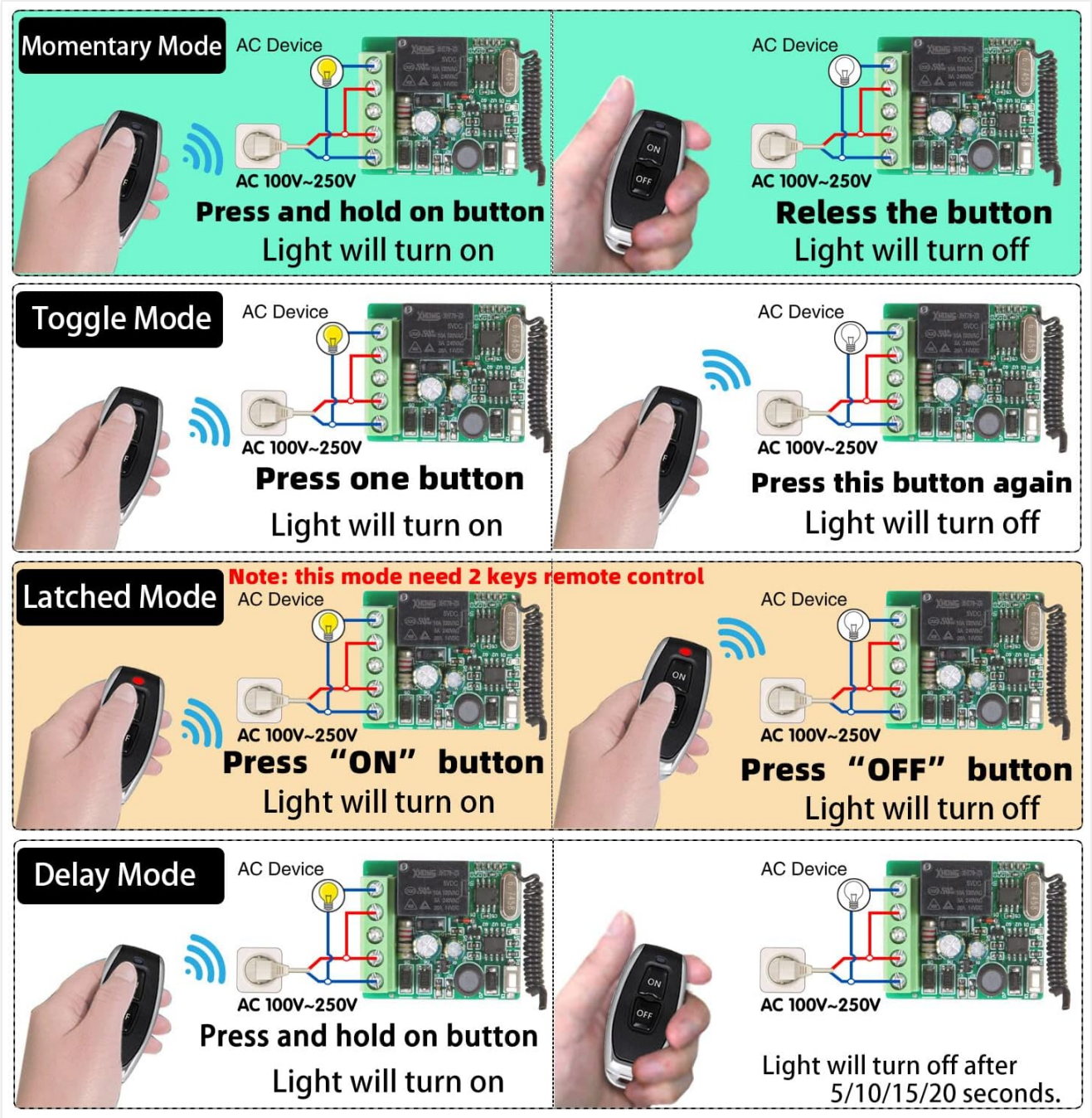

Image: Illustrations of four operating modes: Momentary Mode (press and hold to turn on, release to turn off), Toggle Mode (press once to turn on, press again to turn off), Latched Mode (press 'ON' to turn on, press 'OFF' to turn off, requires two buttons), and Delay Mode (press 'ON' to turn on, light turns off after 5/10/15/20 seconds). Each mode shows the wiring to an AC device and the remote control action.

- **Momentary Mode:** Press and hold the button on the remote to turn on the device; release the button to turn off.
- **Toggle Mode:** Press the button once to turn on the device; press the same button again to turn off.
- **Latched Mode:** Press the 'ON' button to turn on the device; press the 'OFF' button to turn off. This mode requires a remote with two distinct buttons (ON/OFF).
- **Delay Mode:** Press the button to turn on the device; it will automatically turn off after a set delay (5, 10, 15, or 20 seconds).

7. Programming Instructions

To program the receiver with your remote control, follow these steps:

7.1 Resetting the Receiver

Before programming, it is recommended to reset the receiver to clear any previous settings.

1. Press the learning button on the receiver 8 times.
2. The indicator light will flash 8 times, then turn off. This indicates a successful reset.
3. After resetting, the remote control will not be able to operate the receiver until it is reprogrammed.

Your browser does not support the video tag. Please update your browser to view this content.

Video: Demonstration of resetting the receiver and programming different operating modes (Momentary, Toggle, Latched, Delay) using the learning button and remote control. This video is provided by the seller and shows practical steps for setup.

7.2 Programming Operating Modes

Refer to the image below for a visual guide to programming each mode.

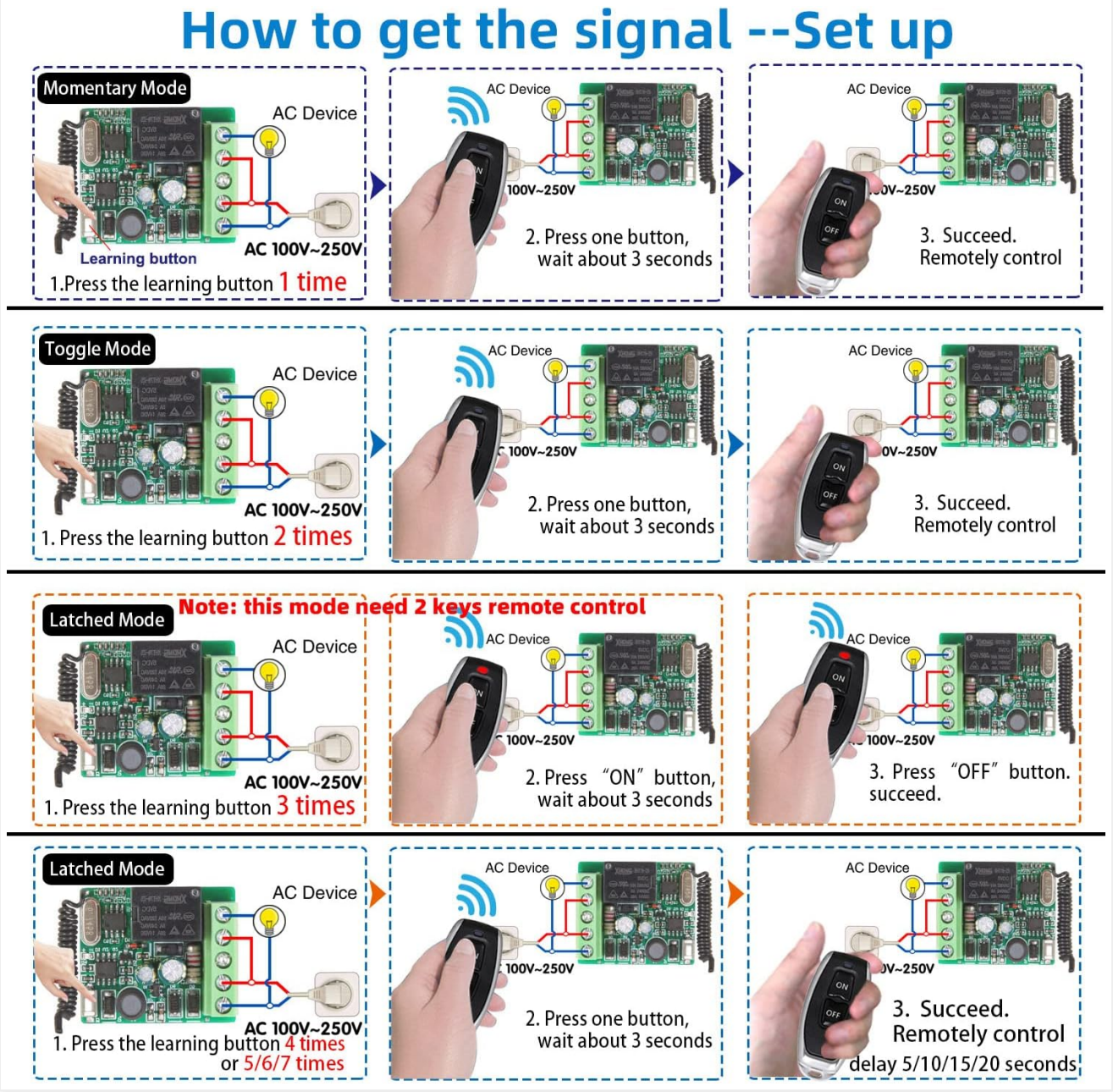

Image: Programming instructions for Momentary, Toggle, Latched, and Delay modes. Each section shows how many times to press the learning button on the receiver and which button(s) to press on the remote control to successfully set the mode.

- **Momentary Mode (Mode 1):**
    a. Press the learning button on the receiver 1 time.

b. Press any button on the remote control. The indicator light will flash, confirming successful programming.

- **Toggle Mode (Mode 2):**
  a. Press the learning button on the receiver 2 times.
  b. Press any button on the remote control. The indicator light will flash, confirming successful programming.
- **Latched Mode (Mode 3):**
  a. Press the learning button on the receiver 3 times.
  b. Press the 'ON' button on the remote control.
  c. Press the 'OFF' button on the remote control. The indicator light will flash, confirming successful programming.
- **Delay Mode (Mode 4/5/6/7):**
  a. Press the learning button on the receiver 4 times for 5-second delay.
  b. Press the learning button on the receiver 5 times for 10-second delay.
  c. Press the learning button on the receiver 6 times for 15-second delay.
  d. Press the learning button on the receiver 7 times for 20-second delay.
  e. After selecting the desired delay by pressing the learning button, press any button on the remote control. The indicator light will flash, confirming successful programming.

8. Troubleshooting

- **Device not responding:**
  - Check power supply to the receiver (AC 100V-250V).
  - Ensure the remote control batteries are not depleted.
  - Verify that the remote control is correctly programmed to the receiver (refer to Section 7).
  - Check for any obstructions or excessive distance between the remote and receiver.
- **Intermittent operation:**
  - Replace remote control batteries.
  - Ensure the receiver's antenna is not obstructed or damaged.
  - Minimize sources of RF interference (e.g., other wireless devices, large metal objects).
- **Incorrect mode operation:**
  - Reset the receiver and reprogram the desired operating mode (refer to Section 7).

9. Applications

This versatile wireless remote control system can be used in a wide range of applications, including:

Image: Collage of various applications for the wireless RF relay module, including garage doors, lamps, door systems, ventilation systems, and electric fans.

- Garage door openers
- Electric locks and electromagnetic doors
- Lighting control (lamps, LED strips)
- Ventilation systems (fans, exhaust fans)
- Water pumps
- DIY remote control projects
- Home automation and security systems

10. Warranty and Support

DieseRC products are designed for reliability and performance. For any questions, technical support, or warranty claims, please contact DieseRC customer service through your purchase platform. Please retain your proof of purchase for warranty purposes.