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DieseRC RX26

DieseRC Wireless Remote Control Switch User Manual

Model: RX26 | Brand: DieseRC

1. Product Overview

The DieseRC Wireless Remote Control Switch is a versatile 433Mhz RF relay receiver designed for controlling various electrical devices. It offers stable and reliable performance with high reception sensitivity, allowing control within approximately 30 meters in open areas, even through walls and doors. This product is ideal for home automation, industrial control, and DIY projects.

Figure 1: DieseRC Wireless Remote Control Switch with receiver module and keyfob transmitter.

The system includes a relay receiver and a transmitter keyfob. The receiver features potential-free contacts (dry contacts) and operates on a wide voltage range of 100V to 250V AC. The high-quality 5A relay ensures durability with over 100,000 operations. One receiver can store up to 20 transmitters, and a single transmitter can control multiple receivers simultaneously. The secure EV1527 learning code technology enhances security.

2. Product Details and Components

Familiarize yourself with the main components of the DieseRC relay receiver and remote control.

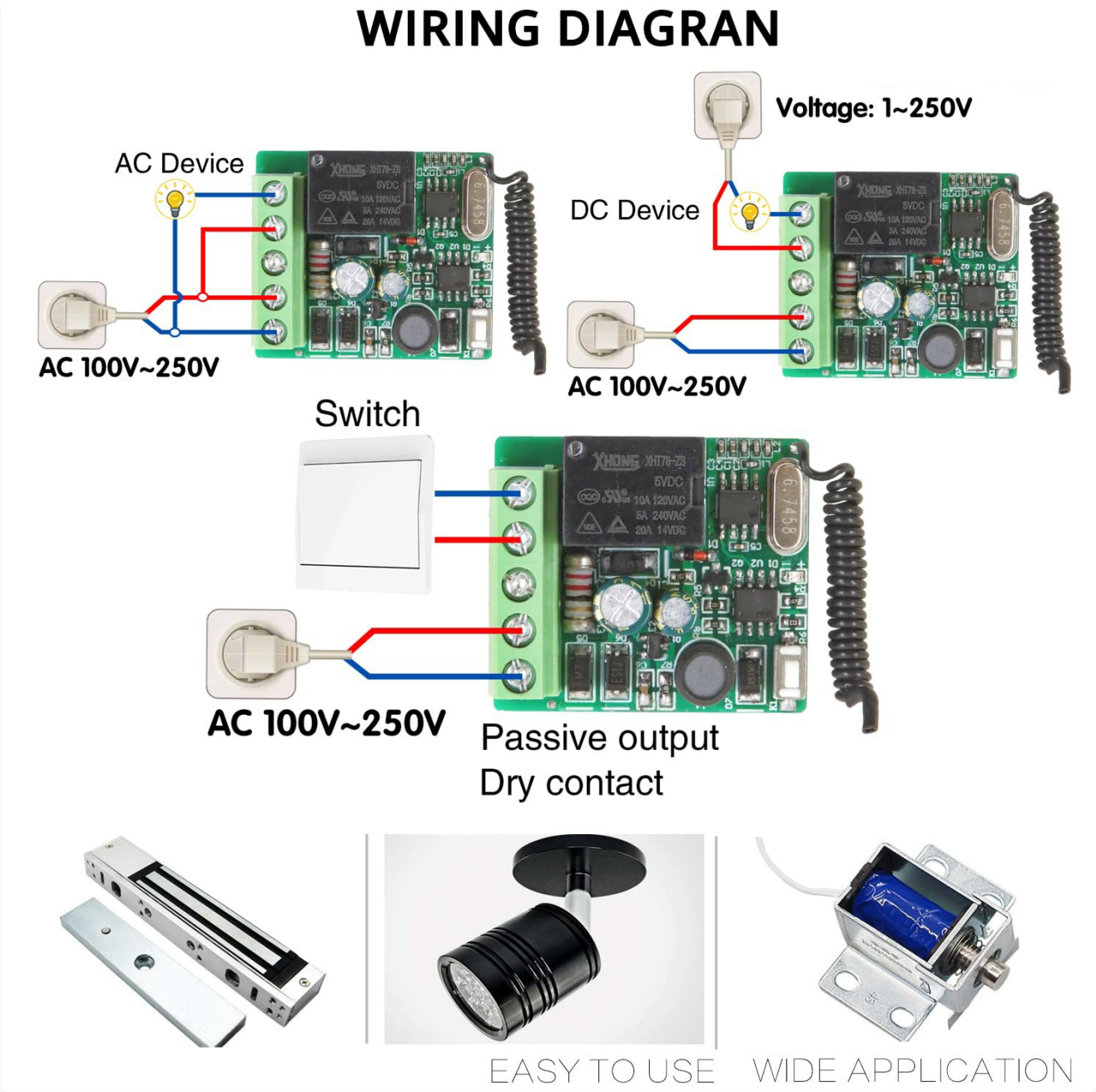

Figure 2: Labeled components of the DieseRC Relay Receiver Board.

- **NO (Normally Open Pin):** Contact is open when the relay is de-energized.
- **COM (Common Pin):** The common terminal for the relay contact.
- **NC (Normally Closed Pin):** Contact is closed when the relay is de-energized.
- **L & N:** Live and Neutral input terminals for power supply (AC 100V~250V).
- **Indicator Light:** Provides visual feedback on the receiver's status.
- **Antenna:** For receiving RF signals from the transmitter.
- **Learning Button:** Used for programming and resetting the receiver.

3. Setup and Wiring

Before connecting, ensure the power supply is disconnected. The receiver supports AC 100V~250V input. The relay provides potential-free (dry) contacts, meaning it acts as a switch without providing power to the connected device.

You will need to supply power to your device separately.

3.1 Wiring Diagrams

Figure 3: Wiring diagrams for AC device, DC device, and passive output (dry contact).

- **AC Device Control:** Connect the AC power source to the L and N terminals of the receiver. Connect your AC device (e.g., lamp) to the NO and COM terminals.
- **DC Device Control:** Connect the AC power source to the L and N terminals of the receiver. Connect your DC device to the NO and COM terminals, ensuring the DC power supply is also connected to the device.
- **Passive Output (Dry Contact):** For applications requiring a simple switch closure, connect the device's control circuit to the NO and COM terminals. The receiver itself does not supply power through these contacts.

Figure 4: Wiring for a Smart Garage Door Opener.

For garage door openers, the relay acts as a momentary switch. Connect the NO and COM terminals to the wall button/console terminals of your existing wired garage door opener. The receiver's L and N terminals should be connected to an AC 100-250V power source.

3.2 Initial Pairing and Reset

Before programming new modes, it is recommended to reset the receiver to clear any previous pairings.

1. **Reset:** Press the learning button on the receiver 8 times. The indicator light will flash rapidly, then turn off, indicating successful reset. All previously paired remote controls will no longer work.

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Video 1: How to program the remote control switch. This video demonstrates the reset and programming procedures for various modes.

4. Operating Modes and Programming

The DieseRC receiver supports four operating modes: Momentary, Toggle, Latched, and Delay. You can program the receiver to your desired mode by following the steps below.

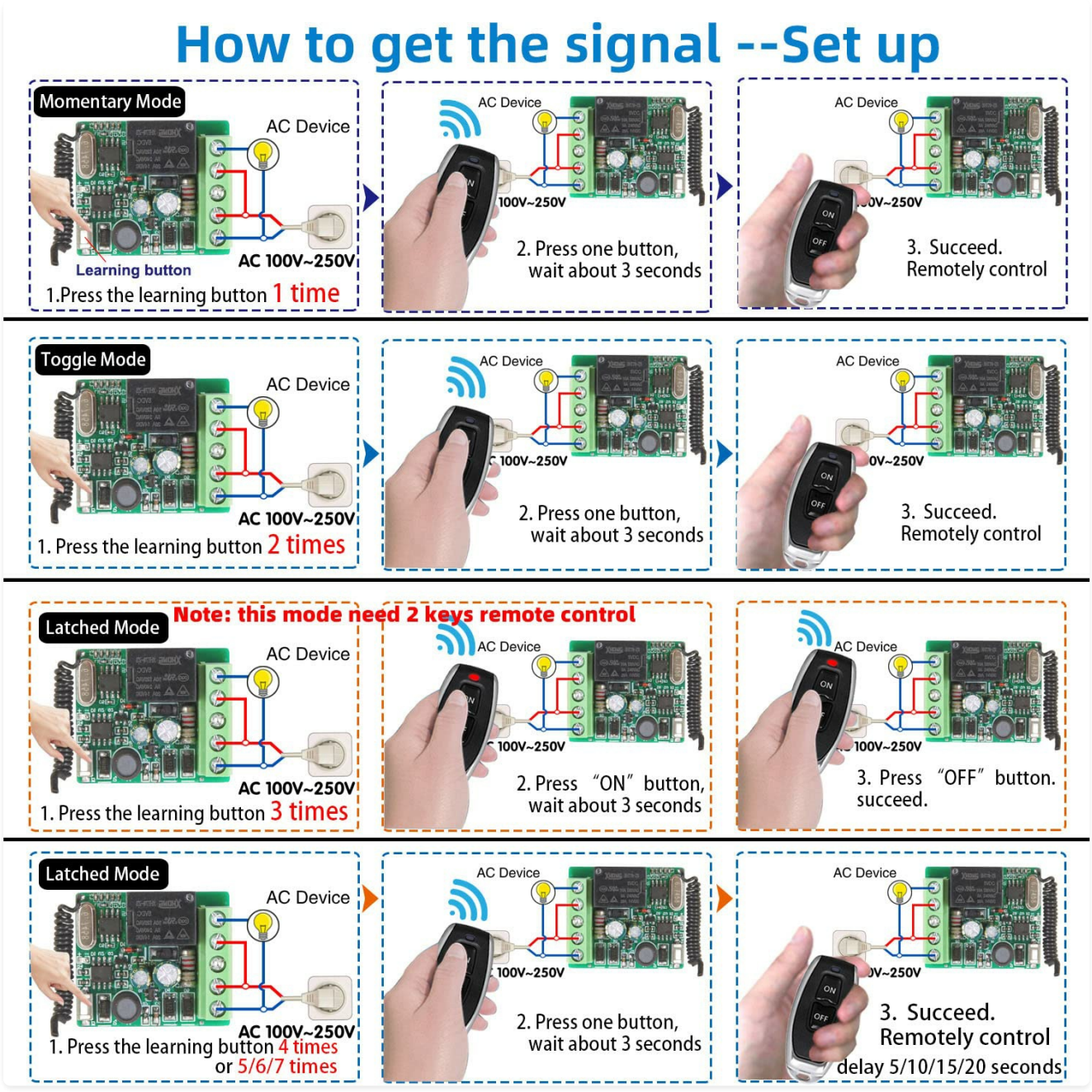

Figure 5: Visual representation of Momentary, Toggle, Latched, and Delay modes.

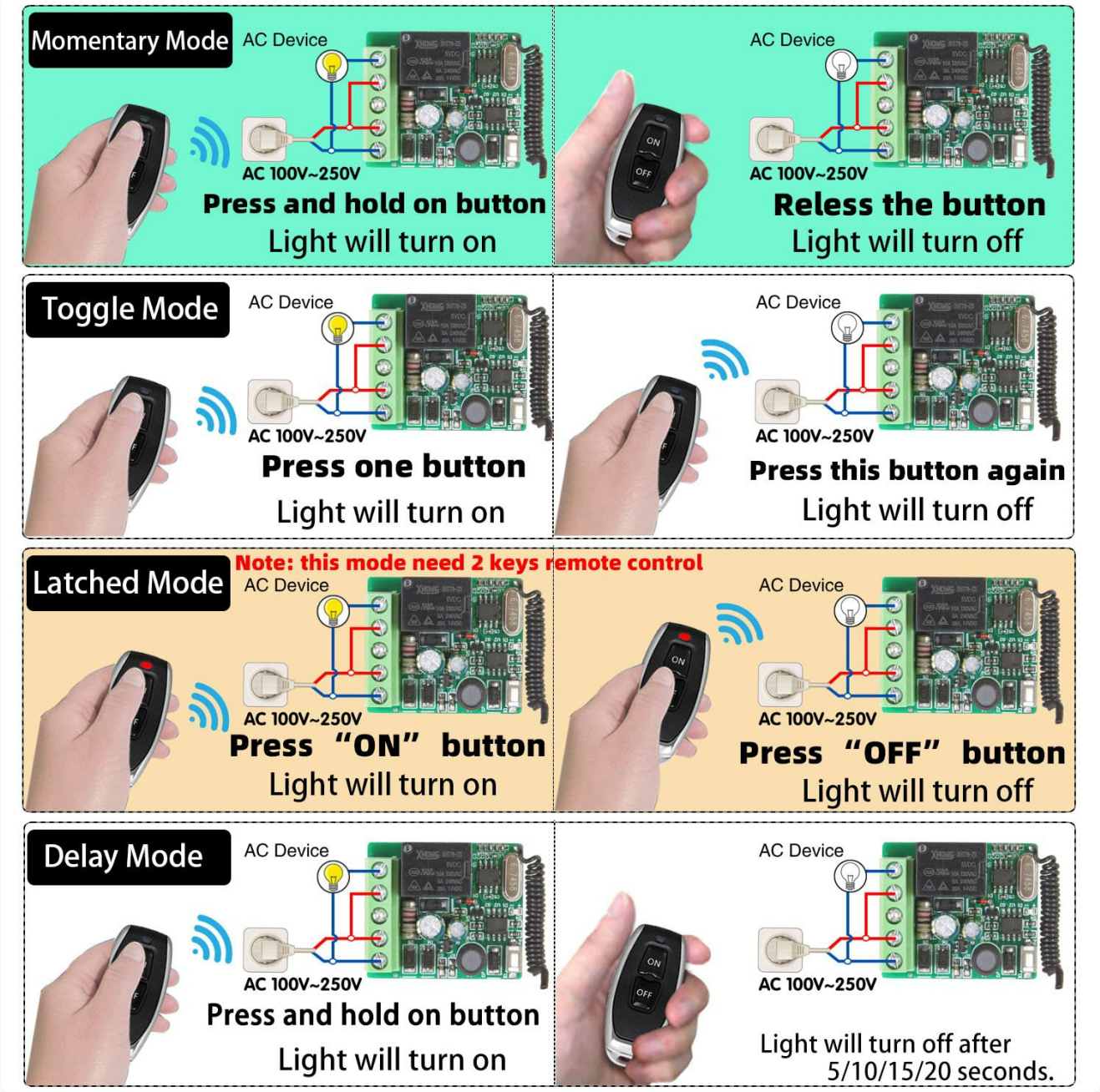

Figure 6: Programming steps for each operating mode.

4.1 Momentary Mode (Press and Hold)

In Momentary mode, the relay activates only while the remote button is pressed and held. It deactivates upon release.

1. Press the learning button on the receiver**1 time**. The indicator light will turn on.
2. Press any button on your remote control. The indicator light will flash, then turn off, indicating successful pairing.

4.2 Toggle Mode (Press On/Off)

In Toggle mode, pressing the remote button once activates the relay, and pressing it again deactivates it.

1. Press the learning button on the receiver**2 times**. The indicator light will turn on.
2. Press any button on your remote control. The indicator light will flash, then turn off, indicating successful pairing.

4.3 Latched Mode (Separate On/Off Buttons)

In Latched mode, one button on the remote activates the relay, and another button deactivates it. This mode requires a remote with at least two distinct buttons (e.g., ON and OFF).

1. Press the learning button on the receiver **3 times**. The indicator light will turn on.
2. Press the 'ON' button on your remote control. The indicator light will flash.
3. Press the 'OFF' button on your remote control. The indicator light will flash, then turn off, indicating successful pairing.

4.4 Delay Mode (Timed Off)

In Delay mode, the relay activates when the remote button is pressed and held, and automatically deactivates after a set time (5, 10, 15, or 20 seconds) upon release.

1. Press the learning button on the receiver **4, 5, 6, or 7 times** to set the delay time:
   - 4 times for 5-second delay
   - 5 times for 10-second delay
   - 6 times for 15-second delay
   - 7 times for 20-second delay

   The indicator light will turn on after the last press.
2. Press any button on your remote control. The indicator light will flash, then turn off, indicating successful pairing.

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Video 2: Demonstration of various operating modes and their functionality.

5. Applications

The DieseRC Wireless Remote Control Switch is highly versatile and can be used in a wide range of applications:

Figure 7: Diverse applications of the wireless relay module.

- **Home Automation:** Control lights, fans, and other appliances remotely.
- **Garage Door Openers:** Integrate with existing wired garage door systems for remote access.
- **Electric Locks & Door Systems:** Provide remote control for access systems.
- **Ventilation Devices:** Remotely switch on/off exhaust fans or other ventilation units.
- **Water Pumps:** Control small water pumps for irrigation or other purposes.
- **Signal Transmission:** Use for various signal transmission applications.
- **DIY Projects:** A flexible component for custom remote control solutions.

6. Maintenance

To ensure the longevity and optimal performance of your DieseRC Wireless Remote Control Switch, follow these maintenance guidelines:

- **Battery Replacement (Transmitter):** The transmitter keyfob uses 2 CR2016 batteries. To replace them, locate the screw port on the back of the transmitter, disassemble the casing, and replace the batteries. Ensure correct polarity.
- **Cleaning:** Use a soft, dry cloth to clean the receiver and transmitter. Do not use harsh chemicals or abrasive cleaners.
- **Environment:** Avoid exposing the devices to extreme temperatures, high humidity, or direct sunlight. Keep them away from strong electromagnetic fields.
- **Inspection:** Periodically check wiring connections to ensure they are secure and free from damage.

7. Troubleshooting

If you encounter issues with your DieseRC Wireless Remote Control Switch, try the following troubleshooting steps:

- **Remote Not Responding:**
  - Check if the transmitter battery is depleted. Replace if necessary.
  - Ensure the receiver is powered on and its indicator light is active.
  - Verify that the remote is properly paired to the receiver in the correct operating mode (refer to Section 4). If unsure, perform a reset (Section 3.2) and re-program the desired mode.
- **Limited Range:**
  - Ensure there are no significant obstructions (thick walls, metal structures) between the transmitter and receiver.
  - Avoid placing the receiver near large metal objects or other devices that emit strong RF signals, which can cause interference.
  - Check the receiver's antenna for any damage or obstruction.
- **Device Not Activating/Deactivating:**
  - Confirm that the wiring connections to your device are correct and secure (refer to Section 3.1).
  - Ensure the connected device is functioning correctly when directly powered or switched.
  - Verify that the operating mode programmed is suitable for your application (e.g., Momentary for garage doors, Toggle for lights).
- **Indicator Light Not Functioning:**
  - Check the power supply to the receiver.
  - If the receiver is powered but the light is off and it's not responding, the unit may be faulty.

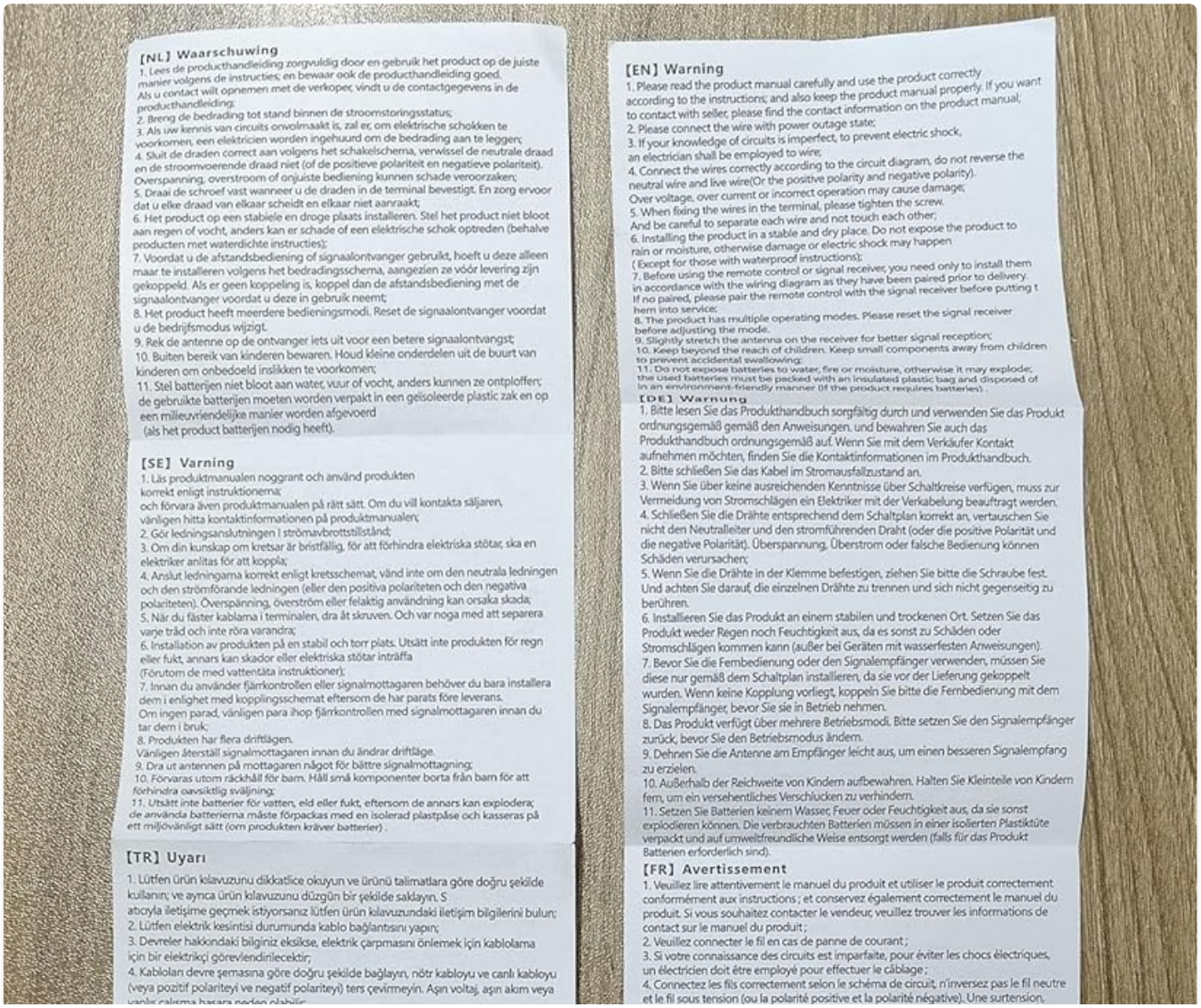
8. Specifications

Feature	Specification
Model Number	RX26

Feature	Specification
Operating Voltage	AC 100V~250V
Operating Frequency	433Mhz
Relay Type	Potential-Free Contacts (Dry Contacts)
Relay Current Rating	5A
Remote Control Battery	2 x CR2016 (included)
Learning Code	EV1527
Control Distance	Up to 30 meters (open area)
Country of Origin	China

9. Warranty and Support

For any inquiries, technical support, or warranty claims, please contact the manufacturer/importer directly.



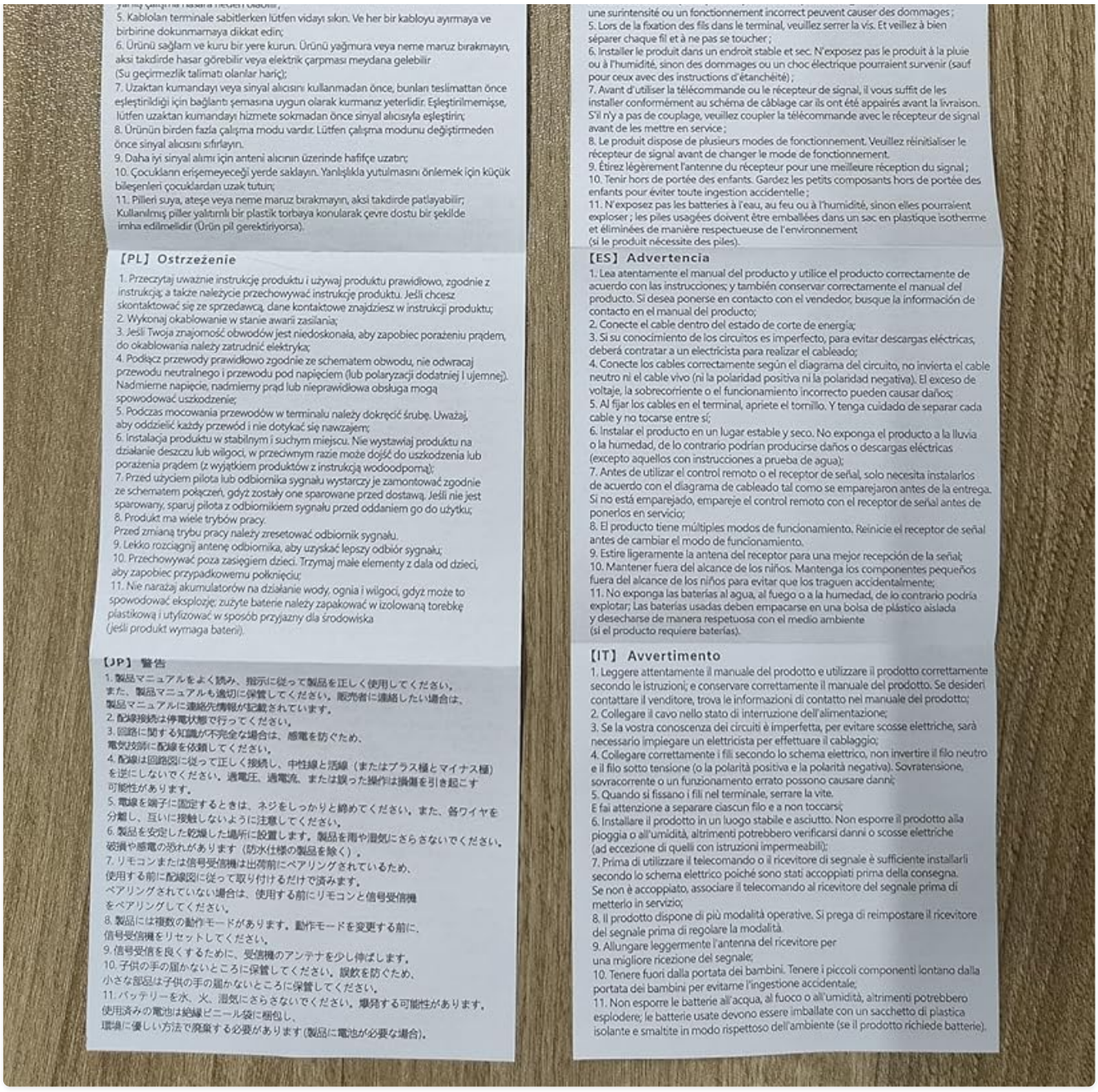


Figure 8: Manufacturer/Importer details on product packaging.

Manufacturer/Importer: Huizhou Wenqiao Electronic Technology Co., Ltd.
Address: Room 03, 12th Floor, Building T19, East Coast Garden, Fangzhilonghuwan, No. 27, Sanhuan South Road, Huicheng District, Huizhou City, Guangdong Province, China 516001
Service Email: dieseelectronic@163.com

Please retain your purchase receipt for warranty purposes.

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Related Documents - RX26

	DieseRC RX26 Relay Remote Control Switch Product Manual Comprehensive guide for the DieseRC RX26 wireless remote control switch, detailing technical specifications, wiring instructions, operating modes (Momentary, Toggle, Latched, Delay), programming procedures, reset function, and troubleshooting tips.
	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 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 1204 Relay Remote Control Switch Manual User manual for the DieseRC 1204 Relay Remote Control Switch, detailing product information, wiring diagrams, operating modes (momentary, toggle, latched), programming instructions, and troubleshooting.
	DieseRC Wireless Light Switch Installation and Wiring Diagram Detailed wiring diagram and installation guide for the DieseRC Wireless Light Switch with a 10 Amp Relay receiver. Includes specifications, pairing instructions, troubleshooting, and customer service information.