QIACHIP 9e9d5249-1c46-4121-a809-c72c73acee34

QIACHIP 433Mhz Universal Wireless Remote Control Switch User Manual

Model: 9e9d5249-1c46-4121-a809-c72c73acee34

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the QIACHIP 433Mhz Universal Wireless Remote Control Switch. This device is designed for wireless control of various electrical appliances and systems, offering convenience and flexibility.

2. Product Components

The package includes the following components:

- QIACHIP 433Mhz 1CH Relay Receiver Modules (2 units)
- RF Transmitter Remote Control (1 unit, 2-button)
- Protective Cases for Receiver Modules (2 units)

Figure 2.1: Overview of the QIACHIP 433Mhz Universal Wireless Remote Control Switch kit, showing two receiver modules, one remote control, and two protective cases.

3. Specifications

Feature	Specification
Input Voltage	DC 12V
Working Frequency	433Mhz
Transmitting Distance	> 100 m (open space)
Supported Remote Type	EV1527 learning code
PCB Dimensions (L,W,H)	35 x 30 x 18 mm
Output Terminal	NO, NC, COM
Max Number of Supported Devices	18

Item Weight	3.2 ounces
Product Dimensions	1.38 x 1.18 x 7.09 inches

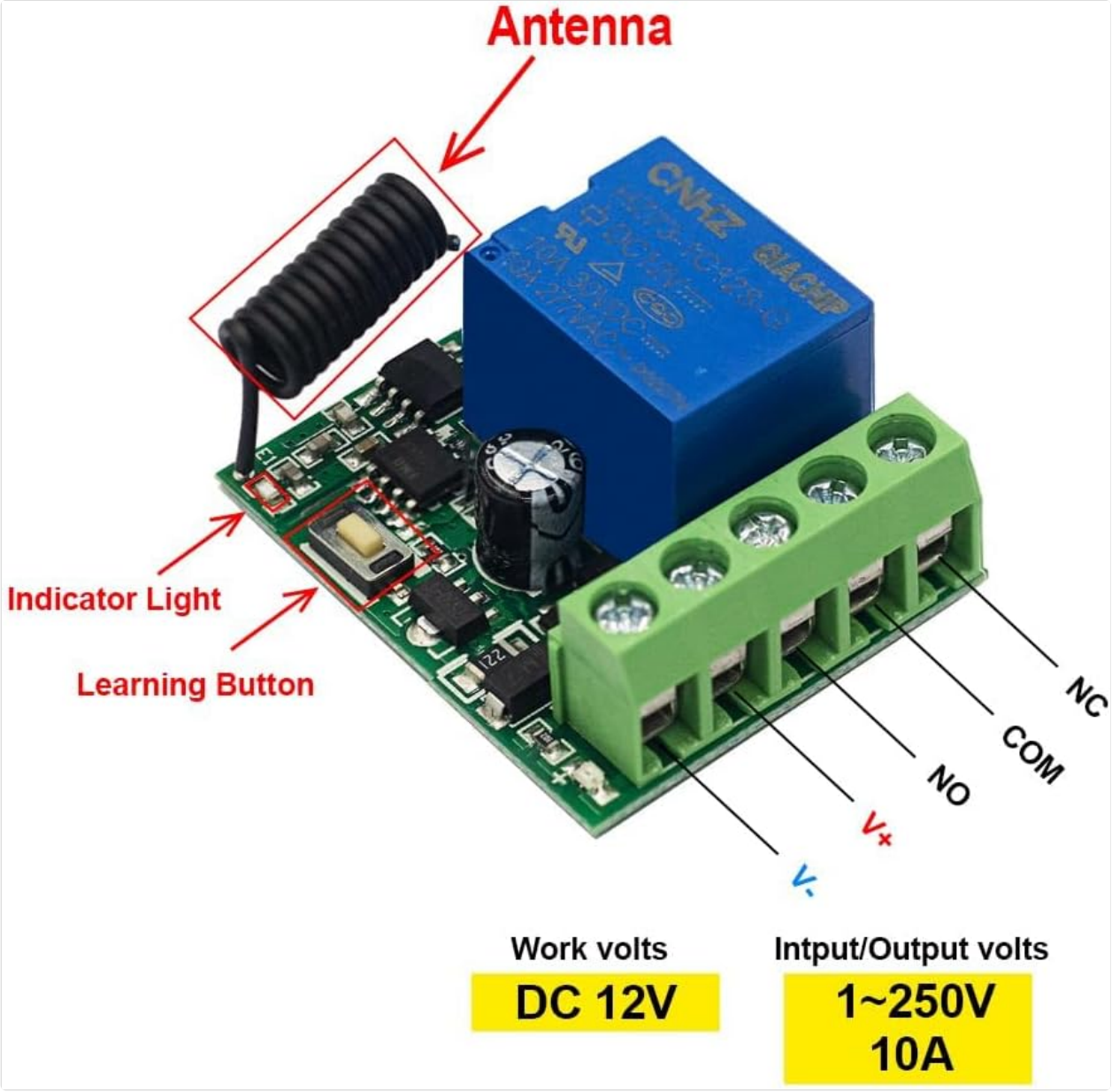

Figure 3.1: Detailed view of the receiver module, highlighting the antenna, indicator light, learning button, and output terminals (NC, COM, NO, V+, V-).

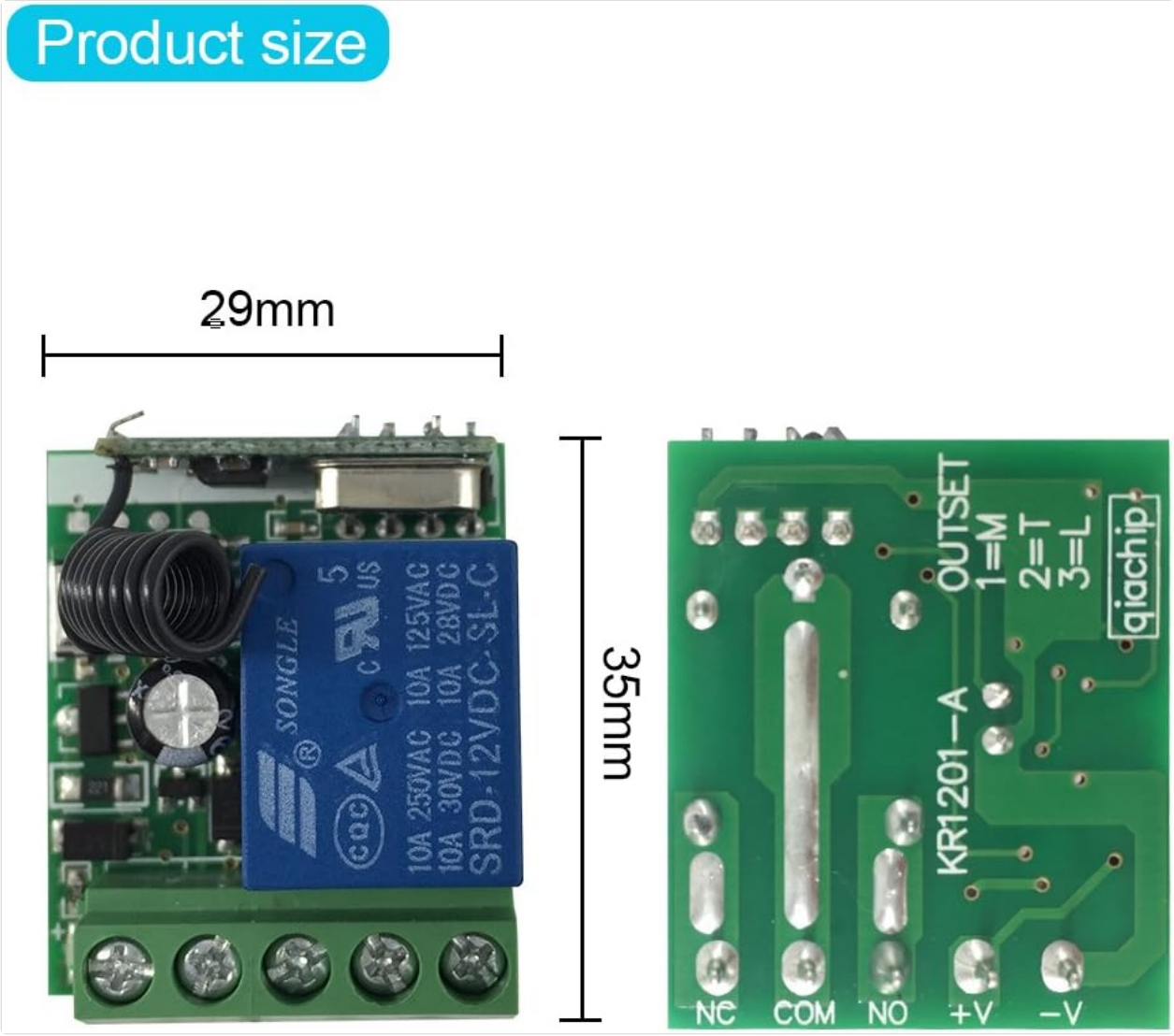

Figure 3.2: Dimensions of the receiver module PCB, showing its compact size for integration into various projects.

4. Safety Information

- Ensure the input voltage matches the device's requirements (DC 12V). Incorrect voltage can damage the device.
- Do not expose the device to moisture or extreme temperatures.
- Disconnect power before performing any wiring or maintenance.
- This product is not suitable for controlling motors in forward and reverse directions. Use a dedicated 2-way controller for such applications.
- Handle with care to avoid physical damage to the PCB or components.

5. Setup and Installation

5.1. Wiring Diagrams

The receiver module features NO (Normally Open), NC (Normally Closed), and COM (Common) output terminals, allowing for flexible integration into various circuits. The input voltage for the receiver is DC 12V.

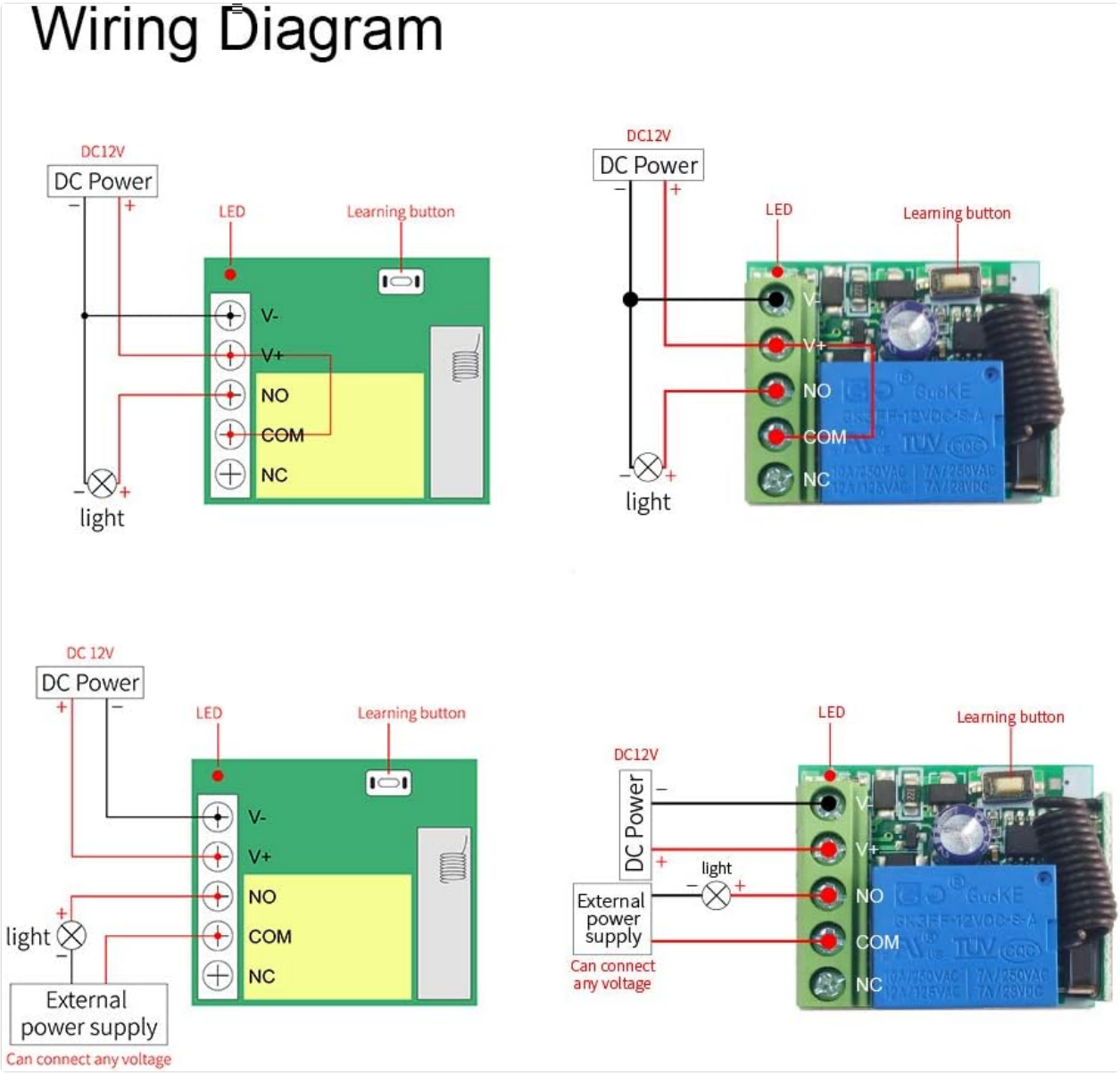

Figure 5.1: Various wiring configurations for the QIACHIP receiver module, demonstrating connections for different load types and power sources. Ensure correct polarity and voltage for optimal performance.

5.2. Pairing Remote Control

To pair the remote control with the receiver module, follow these steps:

1. Connect the receiver module to a stable DC 12V power supply. The indicator light on the receiver will illuminate.
2. Press and hold the "Learning Button" on the receiver module until the indicator light flashes rapidly (typically 3-5 seconds).
3. While the indicator light is flashing, press any button on your remote control. The receiver's indicator light should stop flashing and remain solid for a moment, then turn off, indicating successful pairing.
4. Test the remote control by pressing the paired button. The relay should activate, and the indicator light should illuminate.

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Video 5.1: Demonstration of pairing the QIACHIP 433Mhz remote control with the receiver module and testing its functionality with connected LEDs.

6. Operating Modes

The QIACHIP receiver supports various operating modes, which can be configured by the user. The default

mode is typically Momentary.

- **Momentary Mode:** The relay connects only while the remote button is pressed. It disconnects immediately upon release.
- **Toggle Mode:** Push the remote button once, the relay connects. Push the same button again, the relay disconnects.
- **Latched Mode:** Push remote button A, the relay connects. Push remote button B, the relay disconnects. (Requires a multi-button remote).
- **Time Delay Mode:** Push the remote control button, the relay connects. After a preset time (e.g., 5s, 10s, or 15s), the relay disconnects automatically.

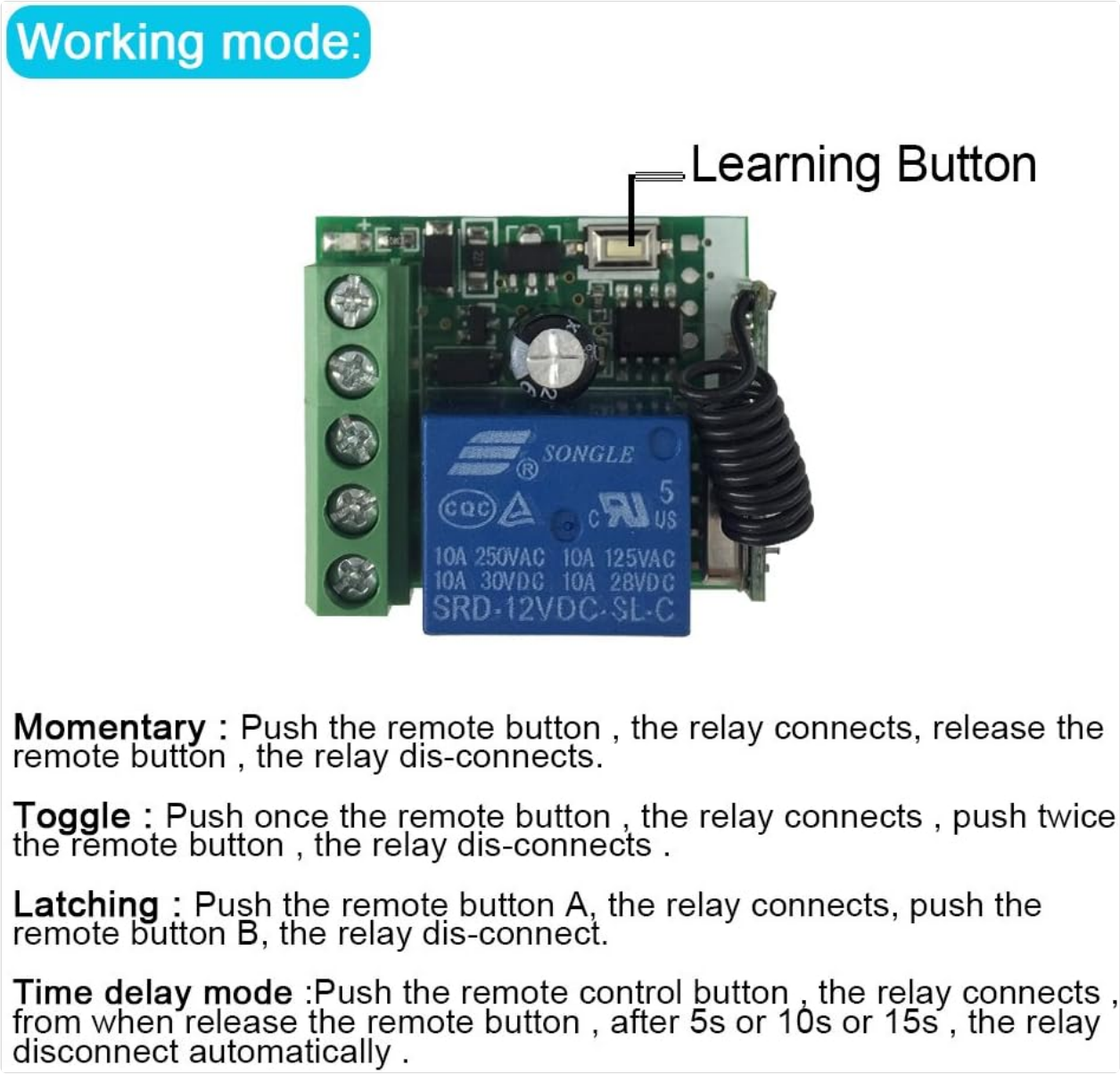

Figure 6.1: Visual representation of the different operating modes (Momentary, Toggle, Latched, Time Delay) and their corresponding relay behaviors.

6.1. Application Examples

The versatility of the QIACHIP remote control switch allows for various applications:

- **Remote Control Lock:** Ideal for electronic door locks, allowing remote access control.
- **Remote Control Lamp:** Conveniently switch lights on or off from a distance.
- **Remote Control Socket:** Convert any standard electrical socket into a remote-controlled outlet.

Figure 6.2: Example application of the remote control switch for a gate door, illustrating how buttons A and B can be configured for opening and locking.

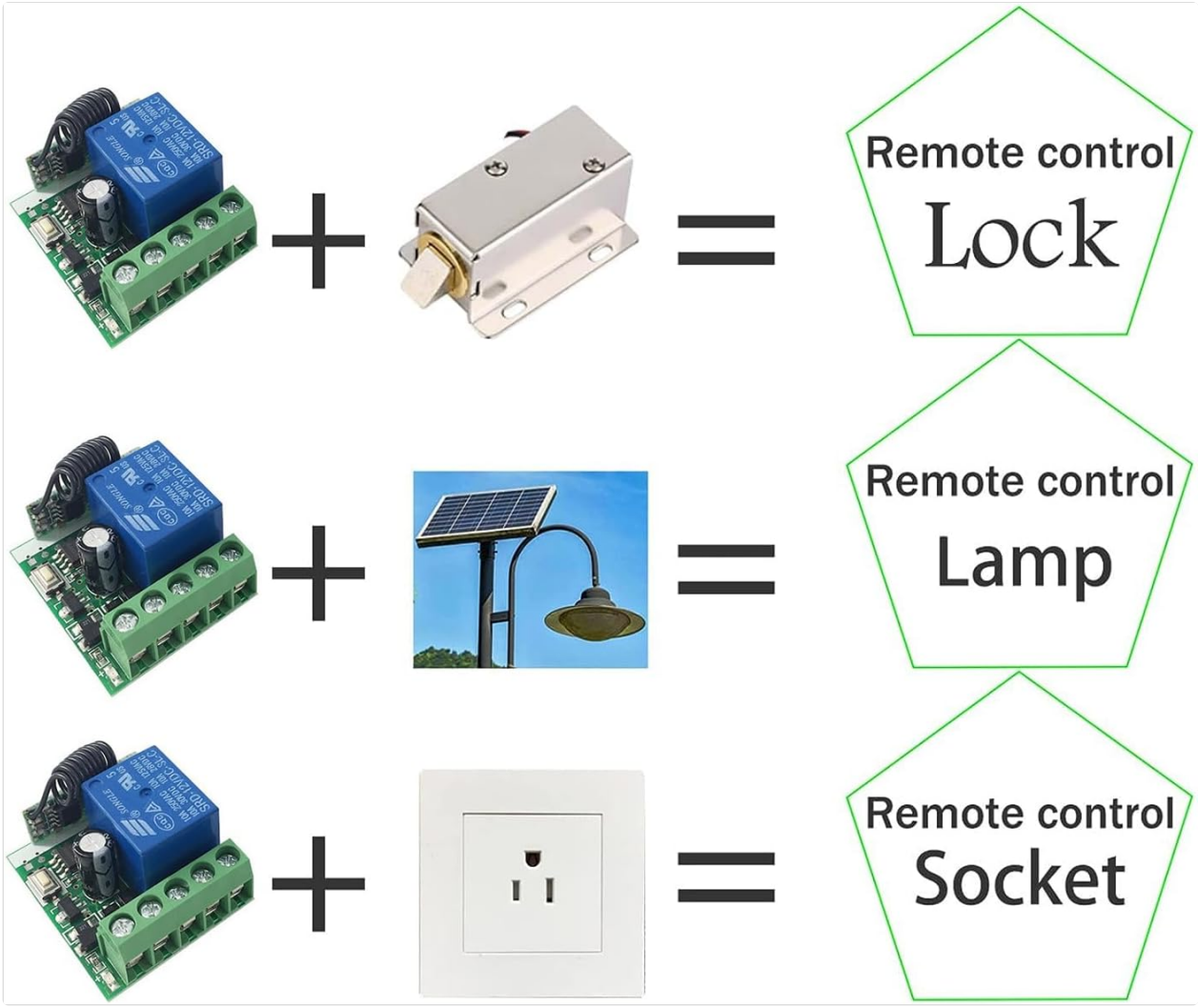

Figure 6.3: Visual examples of the remote control switch being used for various applications, including remote control locks, lamps, and sockets.

7. Maintenance

- Keep the receiver module and remote control dry and clean.
- Avoid exposing the devices to direct sunlight or extreme temperatures.
- If the remote control range decreases, consider replacing its battery (CR2016 or 1 AAA battery, as per specifications).
- Periodically check wiring connections for security and integrity.

8. Troubleshooting

- **Device not responding to remote:**
  - Check if the receiver is powered correctly (DC 12V).
  - Ensure the remote control battery is not depleted.
  - Re-pair the remote control with the receiver following the pairing instructions in Section 5.2.
  - Verify that the remote control is an EV1527 learning code type.
- **Short operating range:**
  - Ensure there are no significant obstructions (thick walls, metal structures) between the remote and the receiver.

- Check for strong electromagnetic interference in the vicinity.
- Verify the antenna on the receiver is properly connected and unobstructed.
- Replace the remote control battery.

- **Relay not activating/deactivating correctly:**
  - Confirm the wiring to the load is correct (NO, NC, COM terminals).
  - Check the operating mode setting of the receiver.
  - Ensure the load's power requirements do not exceed the relay's maximum capacity (10A).

9. Warranty and Support

QIACHIP provides professional customer service and technical support to address any questions or issues you may encounter with your product. For assistance, please contact QIACHIP customer service via email. This product is covered by the standard manufacturer's warranty. Please refer to your purchase documentation for specific warranty terms and conditions.