RODOT KR1201B-4_KT08_2_SET

RODOT DC 12V 1CH RF Wireless Relay Module Instruction Manual

Model: KR1201B-4_KT08_2_SET | Brand: RODOT

1. Introduction

The RODOT DC 12V 1CH RF Wireless Relay Module is a versatile remote control switch designed for various industrial and security applications. It offers stable and reliable performance with high receive sensitivity, allowing signals to pass through walls, floors, and doors. The maximum range is up to 164ft/50m in open areas. This module is compatible with EV1527 learning code remote controls operating at 433Mhz.

2. Package Contents

The package includes the following components:

- 2 x 1-Button Transmitters (Remote Controls)
- 1 x 1CH Receiver Module
- 1 x Receiver Shell

Image: Contents of the product package.

3. Product Overview

The system consists of a receiver module and remote controls. The receiver module is designed for easy integration into various setups, providing terminals for power input and relay output. The remote controls allow for flexible operation of the connected devices.

Image: The receiver module and two remote controls.

Image: Detailed view of the receiver module's terminals.

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

Video: A guide demonstrating the product's functionality and usage.

4. Specifications

Brand	RODOT
Model Number	KR1201B-4_KT08_2_SET
Coil Voltage	12 Volts
Minimum Switching Voltage	12 Volts (DC)
Wattage	10 watts
Connector Type	Through Hole
Contact Type	Normally Open or Normally Closed
Mounting Type	PCB Mount
Operation Mode	Automatic
Item Weight	3.2 ounces
Package Dimensions	4.84 x 4.21 x 1.1 inches

5. Installation & Wiring

The receiver module requires a 12V DC power supply. Ensure correct polarity when connecting power. The module provides Normally Open (NO), Common (COM), and Normally Closed (NC) terminals for connecting your device.

Wiring Diagram

Refer to the diagram below for typical wiring configurations. The power supply for the connected device can be any voltage, as the relay only controls the circuit's switch.

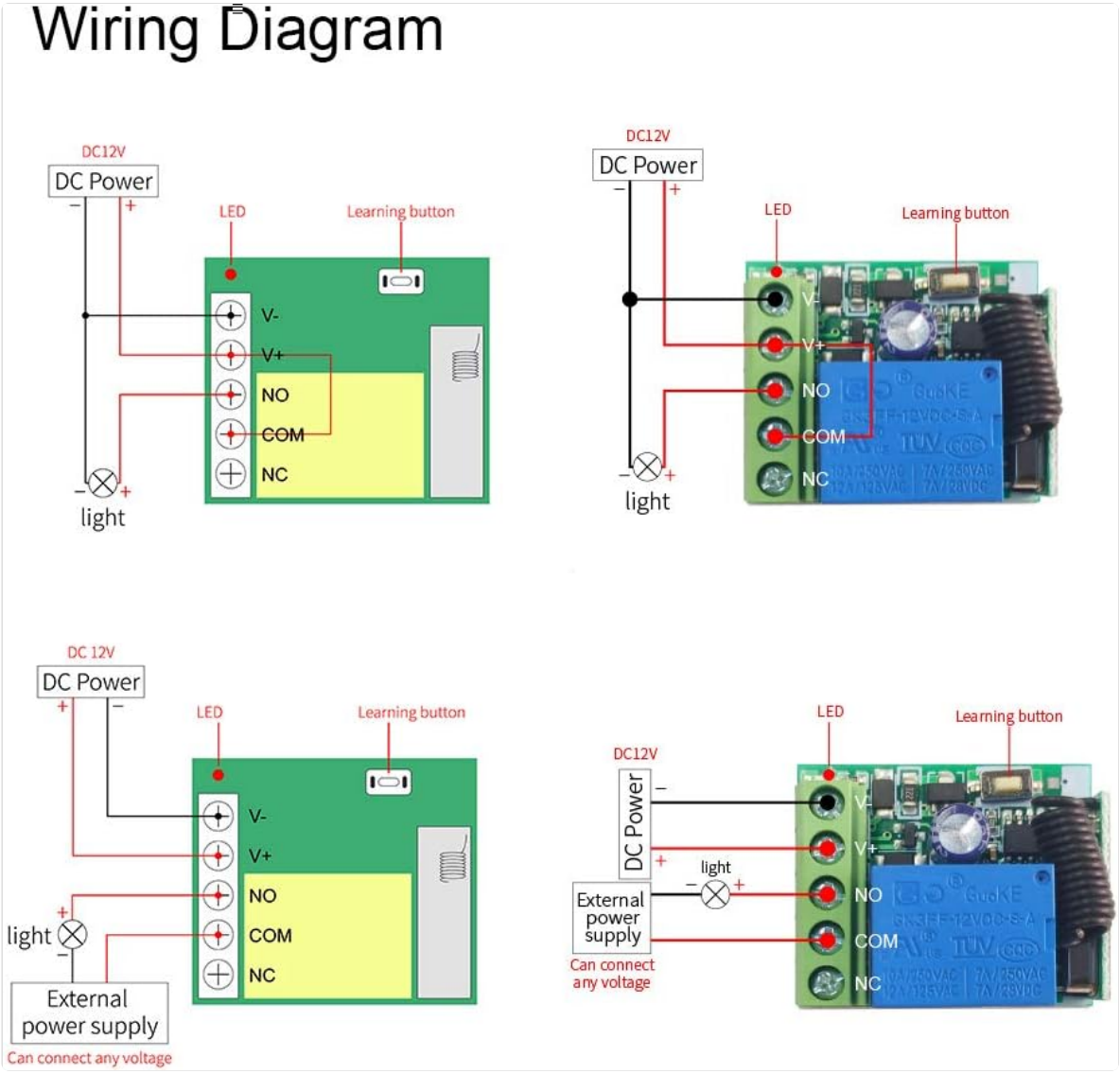

Image: Wiring diagram for the receiver module.

Terminal Definitions:

- **COM:** Common terminal of the relay.
- **NO:** Normally Open terminal of the relay. When the relay is not working, NO is disconnected from COM.
- **NC:** Normally Closed terminal of the relay. When the relay is not working, NC is connected to COM.
- **V+:** 12V Positive input.
- **V-:** 12V Negative input.

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

Video: Demonstration of wiring and pairing for the 12V 1-channel remote control switch.

6. Operating Modes & Pairing

The relay module supports several operating modes, which can be configured by pressing the learning button on the receiver module a specific number of times. Always clear previous pairings before setting a new mode.

Clearing Paired Remote Controls:

Press the learning button 8 times. The indicator LED will flash, confirming all previously paired remote controls have been cleared.

Setting Operating Modes:

After clearing, press the learning button the specified number of times for your desired mode, then press a button on your remote control to pair.

- **Momentary Mode:** Press the learning button 1 time. Press and hold the remote button to turn ON, release to turn OFF.
- **Toggle Mode:** Press the learning button 2 times. Press the remote button once to turn ON, press again to turn OFF.
- **Latched Mode:** Press the learning button 3 times. (Requires a 2-button remote). Press button A to turn ON, press button B to turn OFF.
- **Time Delay Mode:** Press the learning button 4, 5, 6, or 7 times for 5s, 10s, 15s, or 20s delay respectively. Press the remote button to turn ON, it will automatically turn OFF after the set delay.

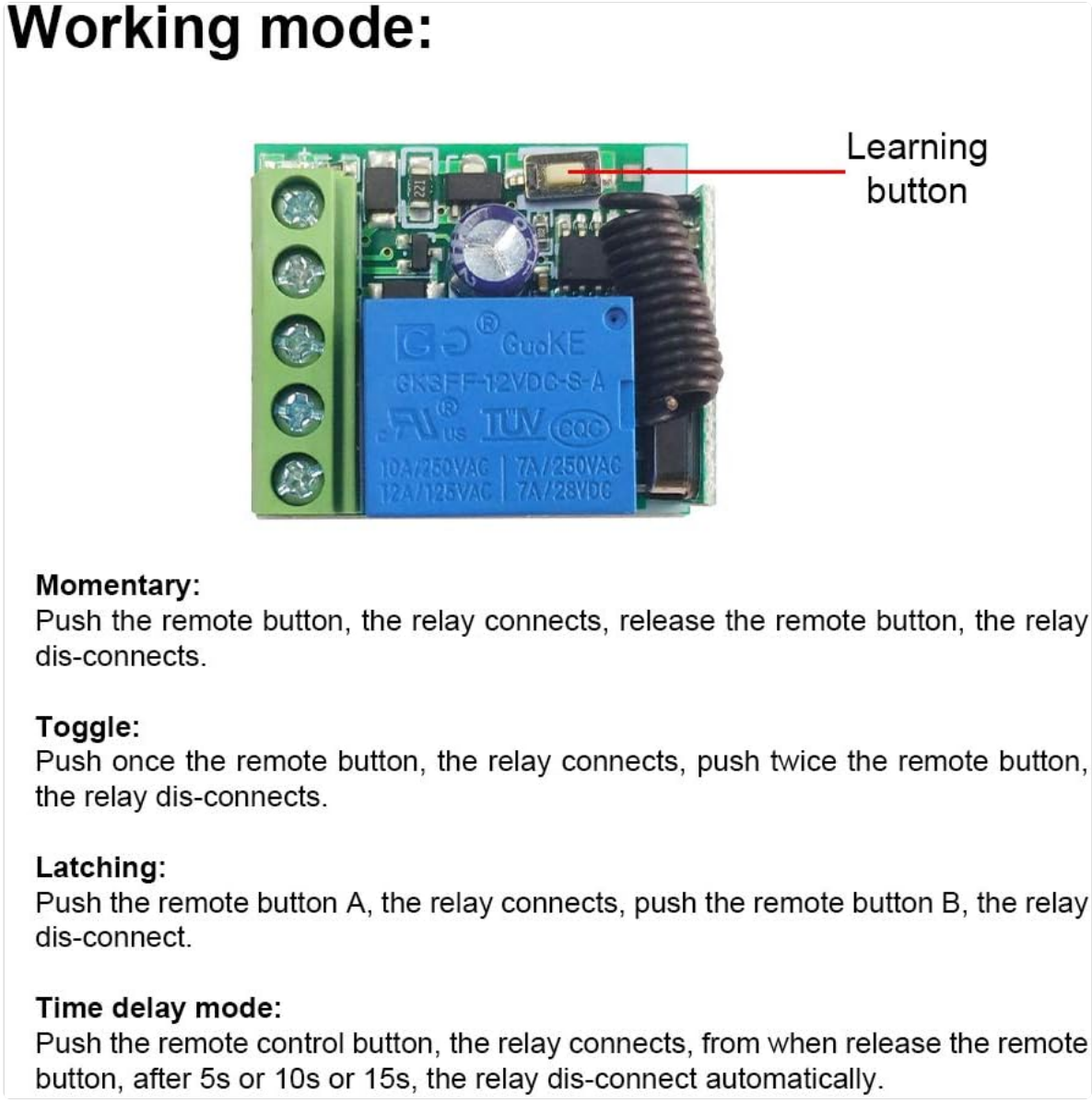

Image: Visual explanation of different working modes.

Momentary Mode

Toggle Mode

Latched Mode

Delay Off Mode

7. Troubleshooting

- **Remote not responding:** Ensure the receiver module is powered correctly (12V DC). Check if the remote control is paired to the receiver. If not, follow the pairing instructions.
- **Limited Range:** Ensure the antenna on the receiver module is extended and not obstructed. Environmental factors like thick walls or other RF interference can reduce range.
- **Incorrect Mode Operation:** If the relay operates unexpectedly, re-clear all paired remotes and re-pair them in the desired operating mode.
- **LED not lighting up:** Verify the power supply connections to the receiver module. Check the LED itself for damage.

8. Safety Information

- Always disconnect power before performing any wiring or maintenance.
- Ensure all connections are secure to prevent short circuits.

- Do not expose the module to moisture or extreme temperatures.
- This device is intended for low-voltage DC applications. Do not connect to AC power unless specified.

9. Warranty and Support

For any issues or questions regarding your RODOT DC 12V 1CH RF Wireless Relay Module, please contact RODOT DIY customer support. Refer to your purchase documentation for warranty details.