

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [Kaleinavi](#) /

› [Kaleinavi 12V 4-Channel Wireless Remote Control Switch Module User Manual](#)

Kaleinavi 03

Kaleinavi 12V 4-Channel Wireless Remote Control Switch Module User Manual

Model: 03

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Kaleinavi 12V 4-Channel Wireless Remote Control Switch Module, Model 03. Please read this manual thoroughly before use to ensure proper functionality and safety.



Image: The Kaleinavi 12V 4-Channel Wireless Remote Control Switch Module (green circuit board) and its accompanying 4-button remote control.

PACKAGE CONTENTS

- 1 x Receiver Module
- 1 x Remote Control (with battery included)

SPECIFICATIONS

Parameter	Value
Power Supply (Operating Voltage)	DC 12V
Relay Current Rating	10A
Output Current	Less than 3A

Parameter	Value
Operating Current	<7mA
Sensitivity	-107 dBm
Operating Temperature	-40°C to 80°C
Module Dimensions	74 mm x 55 mm x 28 mm
Frequency	433 MHz
Remote Distance	Up to 500m (in open field)
Coding Method	Learning Code
Compatible Devices	Electric Door, Garage Door, Gate, Lamp, Lifter, Motor, Winch

SETUP AND WIRING

The receiver module and remote control are pre-paired and tested before shipment. No additional pairing is required upon receipt. Install the module according to the wiring diagrams below.

Receiver Module Overview

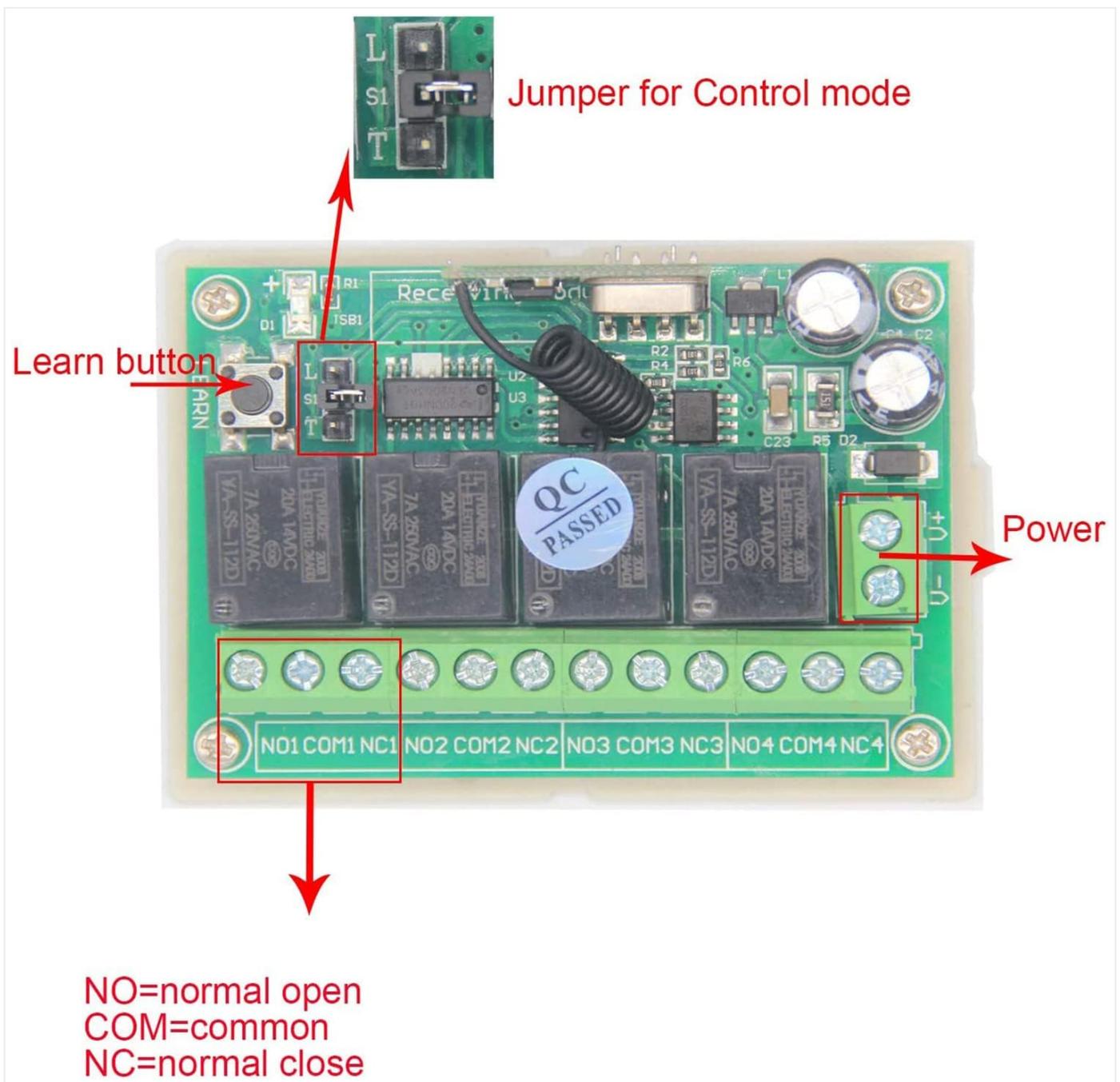


Image: Close-up view of the receiver module highlighting key components: the 'Learn' button, jumper for control mode selection (S1, T, L), power input terminals (+U, -U), and relay output terminals (NO, COM, NC for each of the four channels).

- **Learn Button:** Used for pairing new remote controls or clearing existing codes.
- **Jumper (S1, T, L):** Configures the receiver's work mode (Toggle, Momentary, Latched).
- **Power Input:** Connect DC 12V power supply to the +U and -U terminals.
- **Relay Outputs:** Each channel has Normally Open (NO), Common (COM), and Normally Closed (NC) terminals for connecting loads.

Wiring Diagrams

1. Control 12V DC Loads

This diagram illustrates how to connect 12V DC loads (e.g., lamps) to the receiver module. Ensure the power supply matches the load voltage.

2. Control Other Voltage AC/DC Loads

This diagram shows how to control loads with different voltages (e.g., AC mains voltage) using the relay's dry contact output. The receiver module itself still requires a 12V DC power supply.

Control other voltage wiring diagram

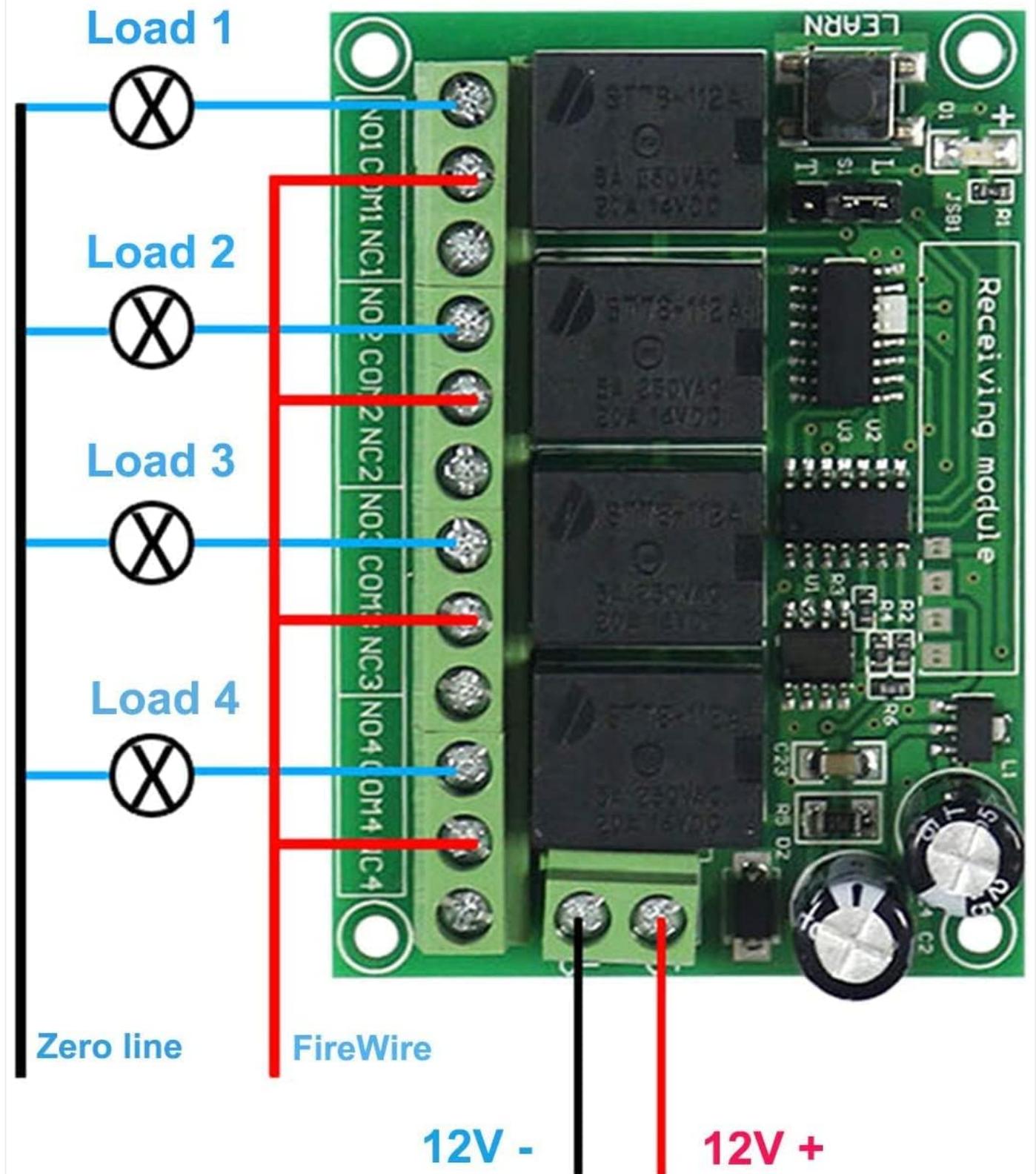


Image: Wiring diagram demonstrating how to control loads with a voltage different from the module's 12V DC supply. The module is powered by 12V DC. For each load, one side of the load is connected to the 'FireWire' (live AC or positive DC), and the other side of the load is connected to the NO terminal of a relay. The COM terminal of the same relay is connected to the 'Zero line' (neutral AC or negative DC).

3. Control 12V DC Motor Forward/Backward

This diagram illustrates a common application for controlling the direction of a 12V DC motor using two relay channels. This setup allows for forward and reverse operation.

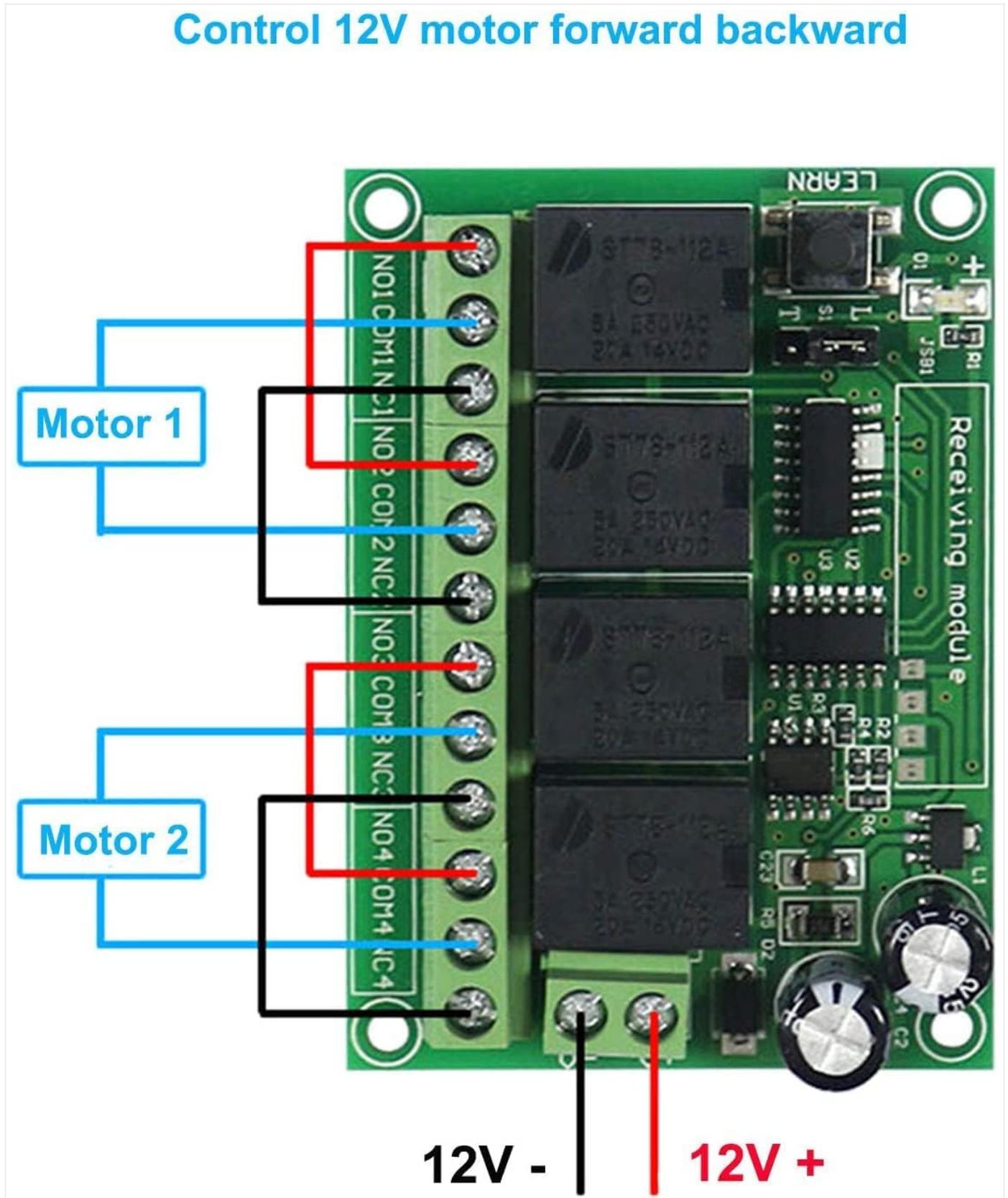


Image: Wiring diagram for controlling two 12V DC motors. For each motor, the motor's terminals are connected to the NO and NC terminals

of a relay. The COM terminal of the relay is connected to the 12V DC positive supply. The 12V DC negative supply is connected to the other side of the motor, allowing for polarity reversal and thus direction control.

4. Product Test DC Lamp Wiring Diagram

This image shows a practical example of connecting a DC lamp for testing purposes. This setup can be used to verify the basic functionality of the module.



Product test DC lamp wiring diagram

If you don't know how to connect,
please let us know, and our engineers
will solve your problem quickly.

Image: A photograph showing the receiver module connected to a strip of LED lights and a 12V power source via alligator clips, demonstrating a basic test setup for a DC lamp.

OPERATING MODES

The receiver module supports three operating modes, which can be selected using the jumper on the board.

Jumper Settings

- **Toggle (Self-Lock):** Jumper placed on **S1 + T**.
Press the remote button once to turn the relay ON. Press the same button again to turn the relay OFF. Each button controls its corresponding relay independently.
- **Momentary (Jog):** Jumper placed on **S1** (no connection to T or L).
Press and hold the remote button to turn the relay ON. Release the button to turn the relay OFF. Each button controls its corresponding relay independently.
- **Latched (Inter-Lock):** Jumper placed on **S1 + L**.
Press one remote button to turn its corresponding relay ON. Press another button to turn the previously ON relay OFF and turn the new button's corresponding relay ON. Only one relay can be ON at a time in this mode.

LEARNING AND CLEARING CODES

The module supports learning multiple remote controls and clearing all stored codes.

1. Learning Code

1. Press the 'Learn' button on the receiver module. The indicator light will flash.
2. Release the 'Learn' button.
3. Press any button on the remote control you wish to pair.
4. The indicator light on the module will flash two times and then turn off, indicating successful pairing.

The module can learn codes from more than 12 remote controls using PT2262 or EV1527 chips with different codes.

2. Clearing Code

1. Press and hold the 'Learn' button on the receiver module for approximately 8 seconds.
2. The indicator light will turn on and then turn off, signifying that all stored codes have been successfully cleared.

REMOTE CONTROL FEATURES

Power Switch

The remote control features a power switch on its side, allowing you to turn it off when not in use to conserve battery life.

The power switch of the remote, can turn off the power when you are not using it.



Image: Side view of the remote control, showing a small slide switch labeled 'ON/OFF' which controls the remote's power.

Battery Replacement

The remote control uses a 9V battery. To replace the battery, slide open the battery compartment cover on the back of the remote.



Image: The back of the remote control with the battery compartment open, showing a 9V battery next to it, ready for insertion.

APPLICATIONS

This wireless remote control switch module is suitable for a wide range of applications, including industrial control, security systems, and home automation.



Suitable for various industries, industry, agriculture, service industry



Image: A collage showing various applications: a large crane at a port, a combine harvester in a field, and an irrigation system, illustrating the versatility of the remote control switch in industrial and agricultural settings.

- Controlling electric doors, garage doors, and gates.
- Operating lamps and lighting systems.
- Managing motors, winches, and lifters.
- Integrating into wired door/window control systems and anti-theft alarms for wireless functionality.

TROUBLESHOOTING

- **Remote Control Not Responding:**

- Check if the remote control's power switch is in the 'ON' position.
- Verify the 9V battery in the remote control is correctly installed and has sufficient charge.
- Ensure the remote control is paired with the receiver module. If not, follow the "Learning Code" procedure.

- **Receiver Module Not Activating Load:**

- Confirm the receiver module is receiving a stable 12V DC power supply.
- Check all wiring connections according to the appropriate wiring diagram. Ensure connections are secure and correct polarity is observed for DC loads.
- Verify the load itself is functional and correctly connected.
- Ensure the operating mode jumper (Toggle, Momentary, Latched) is set correctly for your intended application.

- **Reduced Remote Range:**

- The stated 500m range is for open fields. Obstacles like trees, walls, and other structures will significantly reduce the effective range.
- Ensure there are no major sources of RF interference near the receiver or remote.
- Check the remote control battery. A low battery can reduce transmission power.

- **Interference with Other Devices:**

The product uses digital coding to minimize interference. If interference occurs, ensure other 433MHz devices in the vicinity are not using identical coding or channels. Re-pairing the remote might help in some cases.

MAINTENANCE

The Kaleinavi 12V 4-Channel Wireless Remote Control Switch Module is designed for low maintenance. Regular checks include:

- **Battery Replacement:** Replace the 9V battery in the remote control when its performance degrades or it stops responding.
- **Connection Integrity:** Periodically inspect all wiring connections to the receiver module to ensure they remain secure and free from corrosion.
- **Environmental Conditions:** Ensure the module is operated within its specified temperature range (-40°C to 80°C) and protected from excessive moisture or dust.
- **Cleaning:** Clean the module and remote control with a dry, soft cloth. Avoid using harsh chemicals or abrasive materials.

WARRANTY AND SUPPORT

Kaleinavi provides a **1-year warranty** for this product. For technical assistance or any questions regarding installation or operation, please contact our customer support. Our engineers are available to help resolve any issues you may encounter.

If you are unsure about wiring connections, please reach out to us for guidance.

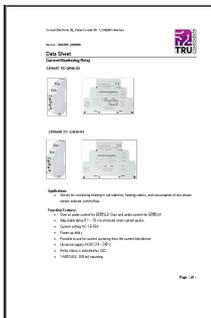
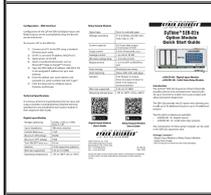
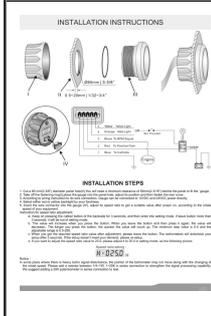


© 2025 Kaleinavi. All rights reserved.

Related Documents - 03



[CK-BL602-4SW-HS-03\(139\) Yiweilian Smart Relay Module: User Manual and Setup Guide](#)
Detailed user manual for the CK-BL602-4SW-HS-03(139) single-channel smart relay module. Covers product parameters, wiring, setup with the Yiweilian (E-Welink) app, operating modes (inching, self-locking, interlocking), remote pairing, and troubleshooting.

	<p>TRU COMPONENTS Current Monitoring Relay TC-GRI8-03 & TC-GRI8-04 Data Sheet</p> <p>Comprehensive data sheet for TRU COMPONENTS Current Monitoring Relays, models TC-GRI8-03 and TC-GRI8-04. Details applications, function features, technical specifications, panel and function diagrams, wiring, and dimensions for these DIN rail mountable relays.</p>
	<p>CyTime SER-32e Option Module Quick Start Guide</p> <p>Quick start guide for the Cyber Sciences CyTime SER-32e Sequence of Events Recorder option modules (eXM-DI-08 Digital Input Module and eXM-RO-08 Solid State Relay Module), covering configuration, technical specifications, and installation.</p>
	<p>Legrand ABDT DX3 6000 A: Technical Specifications and Installation Guide</p> <p>Detailed technical specifications, installation instructions, and performance characteristics for the Legrand ABDT DX3 6000 A residual current circuit breaker with overcurrent protection (RCBO). Covers features, mounting, electrical data, and safety precautions.</p>
	<p>GE Security INT-03 Safety Monitor Relay Datasheet and Specifications</p> <p>Comprehensive datasheet for the GE Security INT-03 Integrity Series Safety Monitor Relay. Includes technical specifications, installation guides, wiring diagrams, and safety features for industrial guard interlock applications.</p>
	<p>KUS 85mm Digital Tachometer Installation Guide</p> <p>Comprehensive installation instructions for the KUS 85mm digital tachometer gauge, covering wiring, mounting, and speed ratio adjustment for 12V/24V systems.</p>