DieseRC CurtainWIFI

DieseRC Smart Wireless Roller Shutter Controller Module

Model: CurtainWIFI
Brand: DieseRC

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your DieseRC Smart Wireless Roller Shutter Controller Module. This device allows you to upgrade your traditional roller shutter (or awning/AC motor) to be controlled via a mobile application, RF remote, or manual switch, and integrates with smart home systems like Alexa and Google Home.

PRODUCT OVERVIEW

The DieseRC Smart Wireless Roller Shutter Controller Module offers a versatile solution for automating your window coverings and other AC motors. Key features include:

- **Excellent Design:** A compact WIFI + RF wireless roller shutter controller module designed to make your roller shutters smart and convenient.
- **Three Control Methods:** Compatible with APP control (Tuya/Smart Life), RF remote control, and manual switch operation.
- **APP Control:** Seamless integration with "Tuya" and "Smart Life" apps for unlimited wireless control via Android and iOS devices. Supports Amazon Alexa and Google Home for voice commands.
- **RF Radio Control:** Features a 433 MHz RF remote control with stable and reliable performance, high reception sensitivity (> -97 dBm), and a control distance of approximately 30-50 meters in open areas. The controller can store up to 20 transmitters using EV1527 learning code.
- **Easy Installation:** Compact size (45x45x16 mm) allows for easy concealment in most electrical boxes or junction boxes. Designed for controlling 4-wire or 5-wire AC motors without additional wiring.
- **Quality Assurance:** Equipped with high-quality relays tested for over 400,000 uses. The WIFI switch uses a 10A relay, with a maximum inductive load of approximately 5A. The receiver supports AC 100V~240V.
- **Wide Application:** Suitable for homes, farms, factories, offices, and more. Control electric blinds, curtain switches, awnings, roller shutters, garage doors, and other AC motors remotely via the internet. Note: Compatible with 4-wire motors (2 input phase wires, 1 neutral wire, 1 ground wire).
- **High-Quality Remote Control:** The remote transmitter is designed for over 500,000 clicks and is removable from its base. The base can be wall-mounted using double-sided adhesive or screws (included). Powered by a 12V 27A battery (included), offering approximately 3 years of operation.

- **Advanced APP Functions:** Offers intelligent controls such as percentage control (set specific open/close percentages) and timer functions. Allows setting movement limits for automatic motor stops. Control can be shared with family members.
- **Extended Voice Control:** Compatible with Amazon Alexa (Echo/Dot/Spot) and Google Home for voice commands, e.g., "Alexa, open/close the curtain to 50%." Can also be linked with various sensors via the Tuya app.

Image: Overview of the multiple control modes available for the DieseRC Smart Roller Shutter Module, including APP, RF Remote, Panel Switch, and Voice Control.

SAFETY INFORMATION

Please read and understand all safety instructions before installation and use. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always disconnect power at the circuit breaker before installing or servicing the device.
- Installation should be performed by a qualified electrician or in accordance with local electrical codes.
- Do not exceed the maximum load ratings specified in the product specifications.
- Ensure all wire connections are secure and properly insulated.
- Keep the device away from water, moisture, and extreme temperatures.
- This device is for indoor use only unless otherwise specified.

PACKAGE CONTENTS

Your package should include the following items:

- 1 x DieseRC Smart Wireless Roller Shutter Controller Module (Receiver)
- 1 x RF 433 MHz Remote Control (Transmitter)
- 1 x 12V 27A Battery (pre-installed in remote)
- Mounting screws and double-sided adhesive for remote base
- User Manual (this document)

SPECIFICATIONS

Feature	Specification
Manufacturer	DieseRC
Product Dimensions (L x W x H)	45 x 45 x 16 mm
Weight	120 grams
Model Reference	CurtainWIFI*5+KT204S
Material	Plastic
Wattage	3520 Watts
Switch Type	1-way, Relay
Operating Mode	Manual and Automatic
Current Rating	10 A
Operating Voltage	100V ~ 240V AC
Contact Type	Normally Open
Connector Type	Screw Terminal
RF Frequency	433 MHz
RF Coding	EV1527 Learning Code
Remote Battery	1 x 12V 27A (included)
Connectivity	Wi-Fi 2.4GHz, RF 433MHz
APP Compatibility	Tuya Smart, Smart Life
Voice Control Compatibility	Amazon Alexa, Google Home

SETUP & INSTALLATION

Follow these steps to install and set up your DieseRC Smart Wireless Roller Shutter Controller Module.

1. Wiring the Module

Ensure power is disconnected at the main circuit breaker before proceeding with any wiring. This module is designed for 4-wire AC motors (two phase wires for input, one neutral wire, and one ground wire). The module can

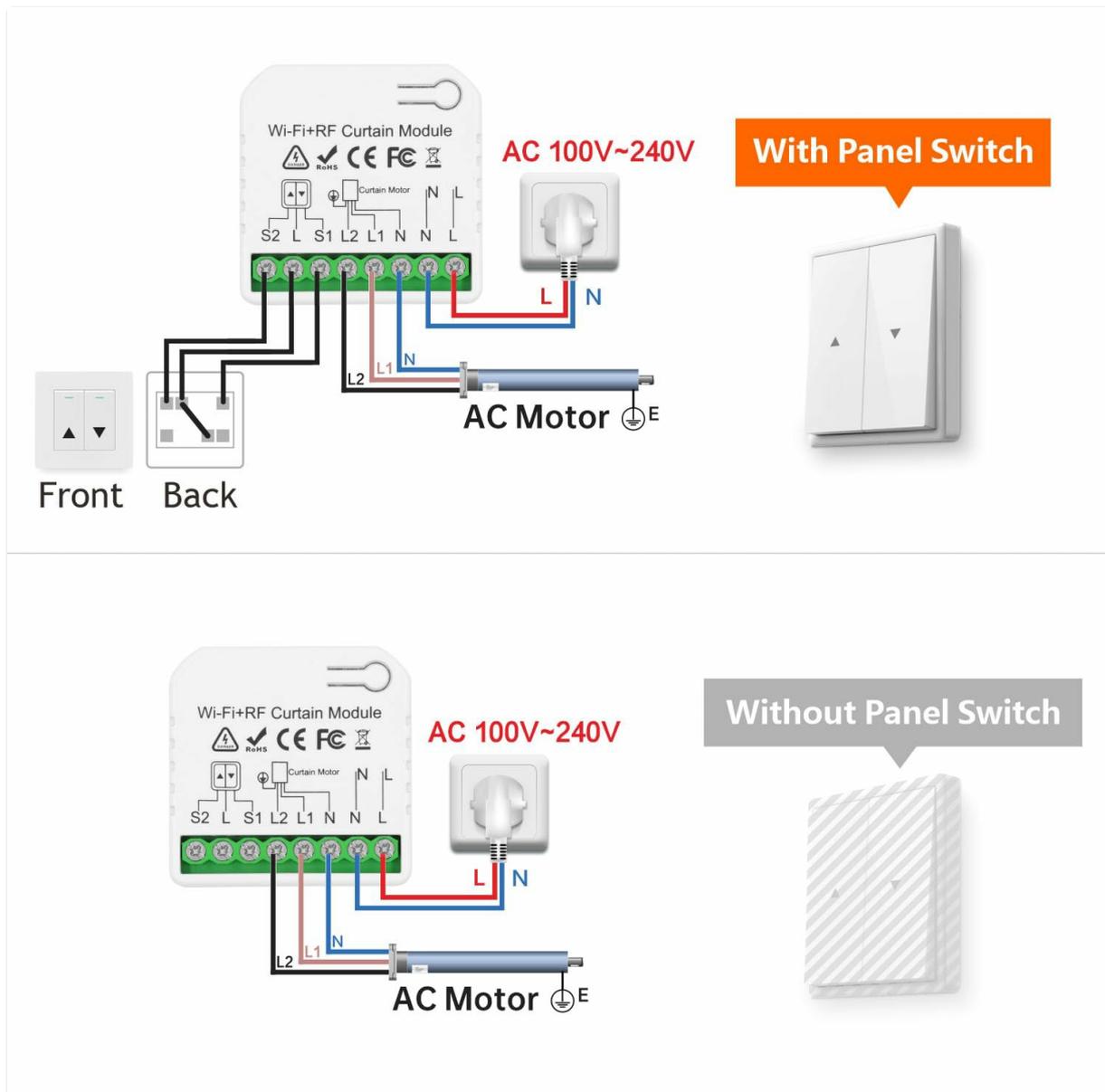be installed with or without an existing manual panel switch.

Image: Detailed wiring diagrams showing how to connect the controller module to a 4-wire AC motor, both with an existing panel switch and without one. The diagrams illustrate connections for Live (L), Neutral (N), Motor Up (L1), Motor Down (L2), and Ground (E).

1. **Disconnect Power:** Turn off the power supply to the circuit at the main breaker.
2. **Identify Wires:** Identify the Live (L), Neutral (N), Motor Up (L1), Motor Down (L2), and Ground (E) wires from your AC motor and power supply.
3. **Connect Power:** Connect the Live (L) wire from your power supply to the 'L' terminal on the module and the Neutral (N) wire to the 'N' terminal on the module.
4. **Connect Motor:** Connect the Motor Up wire to the 'L1' terminal and the Motor Down wire to the 'L2' terminal on the module. Connect the motor's Neutral wire to the 'N' terminal designated for the motor. Ensure the Ground wire is properly connected to the motor and electrical box.
5. **Connect Panel Switch (Optional):** If using a manual panel switch, connect its output wires to the 'S1' (Up) and 'S2' (Down) terminals on the module. The common wire of the switch connects to the 'L' terminal on the module.
6. **Secure Module:** Place the compact module within the electrical box or junction box, ensuring no wires are pinched.
7. **Restore Power:** Once all connections are secure, restore power at the circuit breaker.

Image: This image shows the compact dimensions of the module (45x45x16mm), a 4-wire AC motor, and various applications like curtains, roller blinds, garage doors, and awnings.

2. Resetting the Module (if necessary)

If the module is not in pairing mode (blue LED blinking) or you wish to clear existing pairings, you may need to reset it.

Your browser does not support the video tag.

Video: This video demonstrates the process of resetting the module by pressing and holding the learning button for approximately 5 seconds until the blue LED blinks, indicating pairing mode. It also shows how to clear the RF remote pairing by pressing the learning button 8 times.

1. **Reset for Wi-Fi Pairing:** Press and hold the learning button on the module for approximately 5 seconds. The blue LED indicator will start blinking rapidly, indicating that the module is in Wi-Fi pairing mode.

2. **Clear RF Remote Pairing:** To clear all paired RF remote controls, press the learning button on the module 8 times. The module will confirm the clearing process. After resetting, the previously paired RF remote will no longer control the module.

How To Pair 433Mhz Signals

① Press the learning button **1 time.**
Wait for 3 seconds;

Wi-Fi+RF Curtain Module

Curtain Motor

S2 L S1 L2 L1 N N L

② Press button " ◄I► " **1 time,**
Wait for 3 seconds; Succeed.

How To Clear 433Mhz Signal

Wi-Fi+RF Curtain Module

Curtain Motor

S2 L S1 L2 L1 N N L

Press the learning button **8 time.**
the data has been cleaned successfully

Image: Visual guide on how to pair a 433MHz RF remote by pressing the learning button once and then a button on the remote, and how to clear the RF signal by pressing the learning button 8 times.

3. Wi-Fi Pairing with Tuya/Smart Life App

To enable smart control, pair the module with the Tuya Smart or Smart Life app.

1. **Download App:** Download and install the "Tuya Smart" or "Smart Life" app from your mobile app store. Create an account or log in.
2. **Enable Wi-Fi & Bluetooth:** Ensure your smartphone's Wi-Fi (2.4GHz network) and Bluetooth are enabled.
3. **Enter Pairing Mode:** If not already, reset the module by pressing and holding the learning button for 5 seconds until the blue LED blinks rapidly.
4. **Add Device:** Open the app, tap the "+" icon to add a device. The app should automatically discover the "Curtain Switch" or similar device. If not, select "Add Manually" and choose "Curtain Switch (Wi-Fi)".
5. **Confirm Pairing:** Follow the on-screen prompts to confirm the device and enter your 2.4GHz Wi-Fi network password. The module will connect to your Wi-Fi network.
6. **Rename Device:** Once connected, you can rename the device for easier identification (e.g., "Living Room Blinds").

For the Tuya Smart app, you can scan the QR code for direct download:https://smartapp.tuya.com/tuyasmart

Image: QR code for downloading the Tuya Smart application, which is compatible with the DieseRC Smart Wireless Roller Shutter Controller Module.

4. Pairing RF Remote Control

The RF remote control allows for direct wireless control without Wi-Fi.

1. **Enter Learning Mode:** Press the learning button on the module once. The blue LED will light up (or blink slowly, depending on the model).
2. **Press Remote Button:** Within 3 seconds, press the "Up" or "Down" button on your RF remote control.
3. **Confirmation:** The module's LED will flash to confirm successful pairing. Repeat for other buttons or additional remotes if desired.

OPERATING INSTRUCTIONS

1. APP Control (Tuya Smart / Smart Life)

Once paired with the app, you can control your roller shutters from anywhere.

Wi-Fi

APP Control

Control your devices anytime, anywhere with "Tuya" APP or "Smartlife" APP.

Tuya

Smart Life

No distance limit

Image: A smartphone screen showing the Tuya app interface for controlling roller shutters, with options to open, close, or pause, and a visual representation of remote control over distance.

- **Open/Close/Pause:** Use the virtual buttons in the app to open, close, or pause your roller shutters at any desired position.
- **Percentage Control:** Utilize the percentage slider in the app to set the exact opening or closing percentage of your roller shutters.
- **Timer Function:** Set schedules for automatic opening and closing at specific times or days.
- **Device Sharing:** Share control of the module with family members through the app.

Image: A smartphone displaying the Tuya app with a percentage control slider for roller shutters, allowing precise adjustment of their open/closed state. This feature also highlights limited movement settings for automatic stops.

2. RF Remote Control

Use the included RF 433 MHz remote control for convenient local operation.

Image: A hand holding the RF 433 MHz remote control, demonstrating its use to control roller shutters from a distance of up to 50 meters. The remote is shown with its removable base.

- **Up Button:** Press to open the roller shutter.
- **Down Button:** Press to close the roller shutter.
- **Stop Button:** Press to pause the roller shutter at its current position.

3. Manual Switch Control

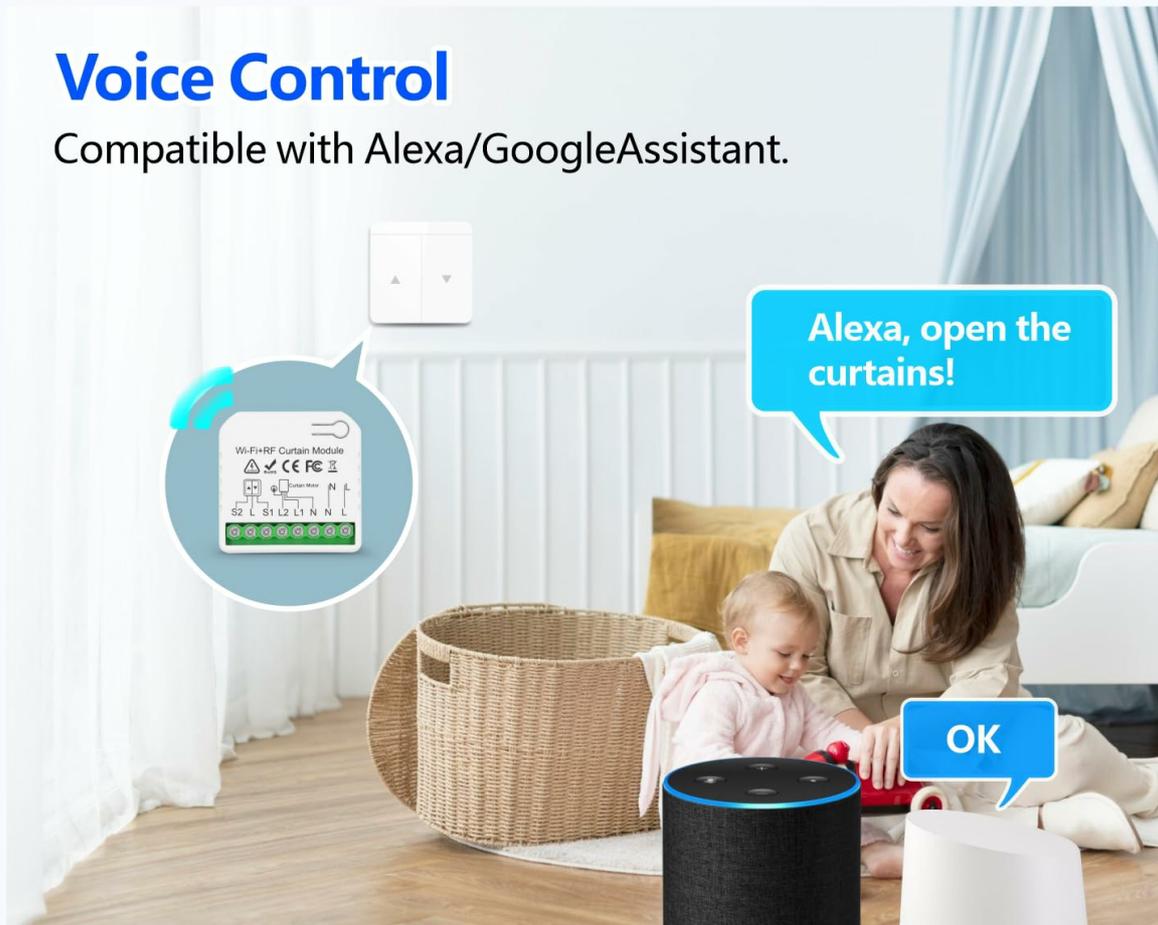If connected to a traditional manual switch, you can still operate your roller shutters directly.

- Press the "Up" button on your manual switch to open the roller shutter.
- Press the "Down" button on your manual switch to close the roller shutter.
- Press either button again to stop the roller shutter.

4. Voice Control (Alexa / Google Home)

Integrate with your smart assistant for hands-free control.

Image: Demonstrates voice control functionality with Amazon Alexa and Google Assistant, showing a user giving a command to open curtains.

1. **Link Account:** In the Alexa or Google Home app, link your Tuya Smart/Smart Life account.

2. **Discover Devices:** Ask your smart assistant to discover new devices.

3. **Voice Commands:** Use commands such as:

   - "Alexa, open [Device Name]"
   - "Hey Google, close [Device Name]"
   - "Alexa, set [Device Name] to 50%"
   - "Hey Google, stop [Device Name]"

Maintenance

The DieseRC Smart Wireless Roller Shutter Controller Module requires minimal maintenance.

- **Cleaning:** Wipe the module and remote control with a dry, soft cloth. Do not use liquid cleaners.
- **Remote Battery Replacement:** The RF remote control uses a 12V 27A battery. When the remote's range decreases or it stops responding, replace the battery. To replace, carefully open the remote casing, remove the old battery, and insert a new one, ensuring correct polarity.
- **Firmware Updates:** Periodically check the Tuya Smart/Smart Life app for any available firmware updates

for the module to ensure optimal performance and security.

TROUBLESHOOTING

If you encounter issues with your DieseRC Smart Wireless Roller Shutter Controller Module, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Module not responding to APP/RF remote.	No power, Wi-Fi disconnected, RF remote not paired, remote battery low.	Check power supply. Ensure Wi-Fi is stable (2.4GHz). Re-pair RF remote (see Setup section). Replace remote battery.
Roller shutter moves in the wrong direction (Up button closes, Down button opens).	Motor wires L1 and L2 are reversed.	In the Tuya/Smart Life app, go to Device Settings -> Motor Steering Switch and select "Reverse". Alternatively, disconnect power and swap the L1 and L2 motor wires at the module.
Module cannot be added to Tuya/Smart Life app.	Module not in pairing mode, incorrect Wi-Fi password, 5GHz Wi-Fi network, Bluetooth off.	Ensure module LED is blinking rapidly (reset if necessary). Verify Wi-Fi password. Connect to a 2.4GHz Wi-Fi network. Ensure Bluetooth is enabled on your phone.
Voice control (Alexa/Google Home) not working.	Account not linked, device not discovered, incorrect commands.	Ensure Tuya/Smart Life account is linked in Alexa/Google Home app. Ask assistant to "discover devices". Use correct voice commands as listed in Operating Instructions.
Roller shutter stops prematurely or doesn't reach full open/close.	App limit settings, motor calibration.	Check percentage settings in the app. Adjust the motor running time in the app settings (e.g., from default 120s to 20s or 30s as needed).

WARRANTY & SUPPORT

DieseRC products are designed for quality and reliability. For warranty information, technical support, or any questions not covered in this manual, please contact DieseRC customer service through the retailer where you purchased the product or visit the official DieseRC brand store:
DieseRC Brand Store: https://www.amazon.fr/stores/DieseRC/page/6597D149-CD38-4D25-BB5E-97B20E9A76D1
We are committed to providing practical, energy-saving, safe, efficient, and economical remote control devices and solutions.