DieseRC curtainwifi

DieseRC Wi-Fi+RF Smart Roller Shutter Controller Module User Manual

Model: curtainwifi

1. INTRODUCTION

This manual provides detailed instructions for the installation, setup, and operation of the DieseRC Wi-Fi+RF Smart Roller Shutter Controller Module. This module is designed to integrate traditional roller shutters, awnings, or AC motors into a smart home system, allowing control via a mobile application, RF remote, or voice commands.
Key features include:

- **Dual Control Modes:** Supports both Wi-Fi (via Tuya/Smart Life App) and RF 433MHz remote control.
- **Voice Assistant Compatibility:** Works with Amazon Alexa and Google Home for convenient voice control.
- **App Functions:** Offers percentage control, timing, scheduling, and family sharing.
- **Easy Installation:** Compact design (45x45x16 mm) fits into most electrical boxes.
- **Wide Application:** Suitable for roller shutters, electric curtains, awnings, garage doors, and other AC motors.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock. Installation should only be performed by a qualified electrician or in accordance with local electrical codes.

- Ensure power is disconnected at the circuit breaker before installation, maintenance, or removal of the device.
- Do not exceed the maximum load rating of 10A (inductive load max 5A).
- Operate within the specified voltage range of AC 100V~240V.
- This module is designed for 4-wire AC motors (2 input phase wires, 1 neutral wire, and 1 ground wire).
- Keep the device away from water and high humidity environments.
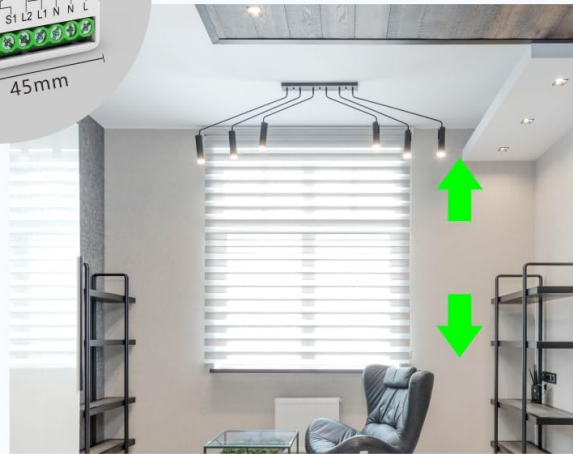
3. PACKAGE CONTENTS

- 1 x DieseRC Wi-Fi+RF Smart Roller Shutter Controller Module

4. SPECIFICATIONS

Parameter	Value
Brand	DieseRC
Model Number	curtainwifi
Dimensions (L x W x H)	45 x 45 x 16 mm
Weight	60 grams
Material	Plastic
Operating Voltage	AC 100V ~ 240V
Current Rating	5A (Max Inductive Load) / 10A (Max Resistive Load)
Wireless Connectivity	Wi-Fi 2.4GHz, RF 433MHz
RF Code Type	EV1527 Learning Code
RF Control Range	30-50 meters (open area)
Switch Type	Push Button (1-way)
Certification	CE

The compact size of the module allows for discreet installation behind most traditional wall switches or within junction boxes.

Image: The module's dimensions (45x45x16 mm) and various application scenarios such as curtains, roller blinds, garage doors, and awnings.

5. INSTALLATION

Before proceeding with installation, ensure the main power supply is turned off at the circuit breaker to prevent electric shock.

5.1 Wiring Diagram

The module supports 4-wire AC motors. Refer to the diagrams below for correct wiring with or without a traditional panel switch.
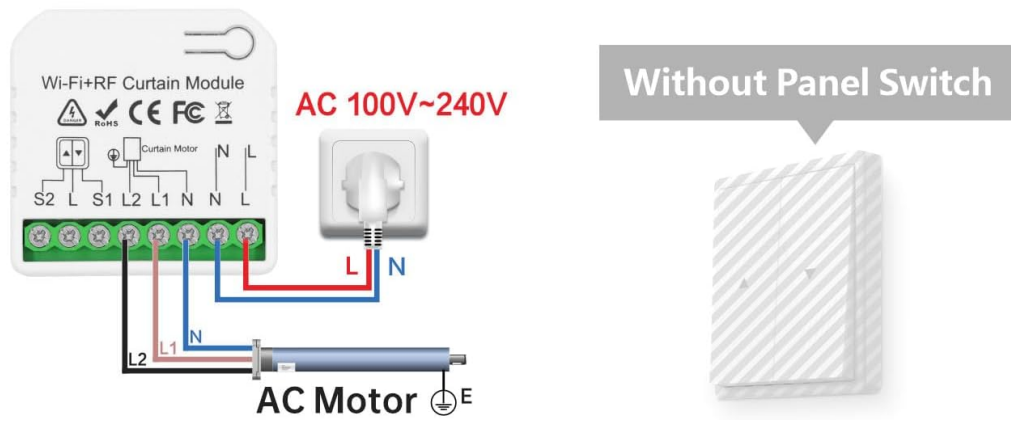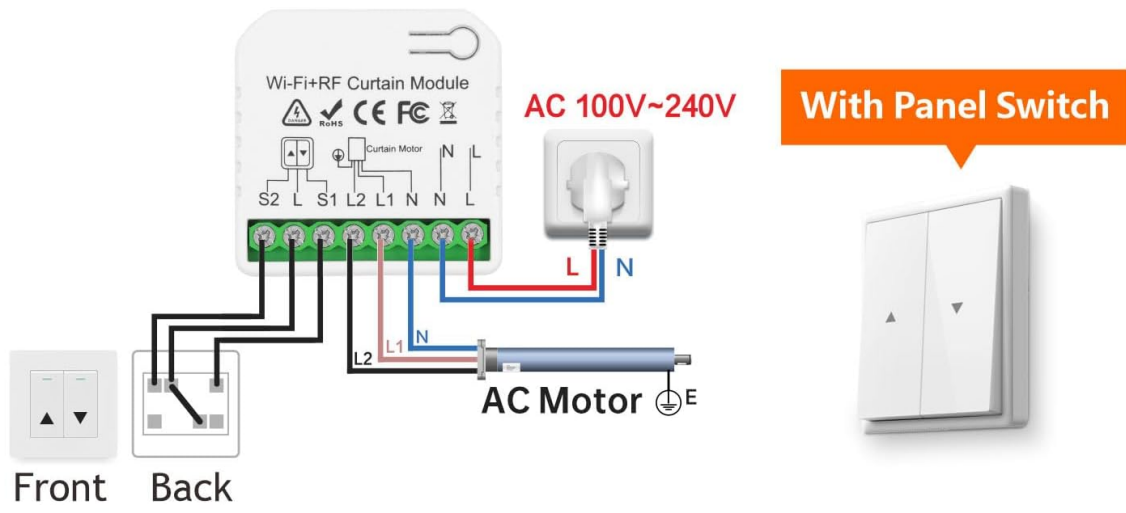
Wi-Fi+RF Curtain Module

AC 100V~240V

With Panel Switch

S2 L S1 L2 L1 N N L

L2 L1 N

AC Motor E

Front   Back

Wi-Fi+RF Curtain Module

AC 100V~240V

Without Panel Switch

S2 L S1 L2 L1 N N L

L2 L1 N

AC Motor E

Image: Detailed wiring diagram showing connections for the module, AC motor, L/N inputs, and an optional traditional wired wall switch.

Image: Two wiring configurations: one showing the module connected with a traditional panel switch, and another showing it connected directly to the power supply and AC motor without a panel switch.

Wiring Steps:

1. **Disconnect Power:** Turn off the main power supply to the circuit you are working on.
2. **Connect Power Input:** Connect the Live (L) and Neutral (N) wires from your AC power supply to the corresponding L and N terminals on the module.
3. **Connect Motor:** Connect the AC motor's wires to the L1 (Up), L2 (Down), and N (Neutral) terminals on the module. Ensure the motor's ground wire is properly connected to the electrical system's ground.
4. **Connect Panel Switch (Optional):** If using a traditional panel switch, connect its wires to the S1 and S2 terminals on the module, and the common wire to the L terminal.
5. **Secure Connections:** Ensure all wire connections are tight and secure.
6. **Mount Module:** Carefully place the module into the electrical box or junction box.
7. **Restore Power:** Turn the main power supply back on.

6. SETUP

6.1 App Installation and Pairing

The module is compatible with the Tuya Smart or Smart Life applications.

1. **Download App:** Download the "Tuya Smart" or "Smart Life" app from your smartphone's app store (available for Android and iOS). Alternatively, scan the QR code below.

Image: QR code for downloading the Tuya Smart application. Download Tuya Smart App

2. **Register/Login:** Open the app and register a new account or log in with an existing one.

3. **Enter Pairing Mode:** After powering on the module, it should automatically enter pairing mode (indicated by a rapidly blinking Wi-Fi indicator light). If not, press and hold the learning button on the module for 5 seconds until the light blinks rapidly.

4. **Add Device:** In the app, tap "+" to add a new device. Select "Curtain Switch" or "Shutter Switch" from the device list.

5. **Connect to Wi-Fi:** Follow the in-app instructions to connect the module to your 2.4GHz Wi-Fi network. Ensure your phone is also connected to the same 2.4GHz network.

6. **Rename Device:** Once successfully added, you can rename the device for easier identification (e.g., "Living Room Blinds").

Image: Screenshot of the mobile application interface demonstrating remote control of the curtain module, indicating no distance limit for Wi-Fi control.

6.2 RF Remote Pairing

This module supports RF 433MHz remote controls with EV1527 learning code.

1. **Enter Learning Mode:** Press the learning button on the receiver module **once**.
2. **Pair Remote:** Immediately press any button on your RF remote transmitter. The module's indicator light will flash to confirm successful pairing.

Note: The module can store approximately 20 transmitters. Some units may come pre-paired from the factory.
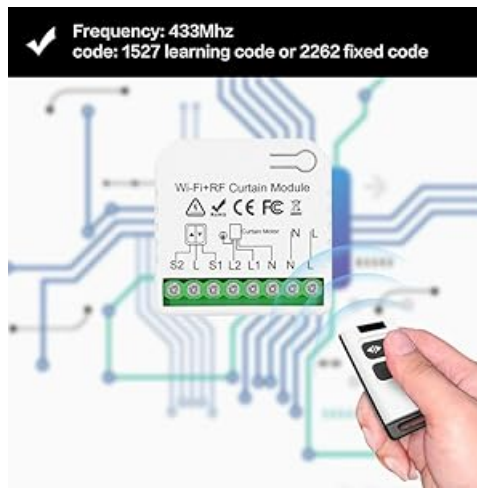
Image: Visual guide on how to connect a 433MHz remote control by pressing the learning button on the receiver once, then pressing a button on the remote.

6.3 Clearing RF Signal

To clear all paired RF remote controls from the module:

1. **Clear Signal:** Press the learning button on the receiver module **8 times**. The indicator light will flash to confirm the signal has been cleared.

Note: After resetting, any previously paired RF transmitters will no longer control the module.

7. OPERATION

The DieseRC Smart Roller Shutter Controller Module offers multiple control methods for convenience.

Image: Overview of the multiple control modes available: APP control, RF Remote Control, Panel Switch, and Voice control.

7.1 App Control (Tuya Smart / Smart Life)

Once the module is paired with the app, you can control your roller shutters from anywhere with an internet connection.

- **Open/Close:** Use the virtual buttons in the app to fully open or close the shutters.
- **Percentage Control:** Adjust the shutter position to a specific percentage (e.g., 50% open). The motor will automatically stop when it reaches the set position.

08:00
open the curtains

22:00
close the curtains

Timing
16:20 on (once)

Schedule
16:20 on (everyday)

Countdown
00:20 Later off

Set the schedule through the APP to automatically open and close the curtains. Never worry about forgetting to turn it on or off again.

Image: The mobile application interface demonstrating the percentage control function, allowing users to set the curtain's opening level.

- **Scheduling & Timers:** Set up schedules for automatic opening and closing at specific times (e.g., open at 8:00 AM, close at 10:00 PM). You can also set countdown timers.

New wiring port makes wiring
extremely simple

Curtain Motor

S2 L S1 L2 L1 N N L

AC Motor

L/N inputs.

Curtain / AC motors

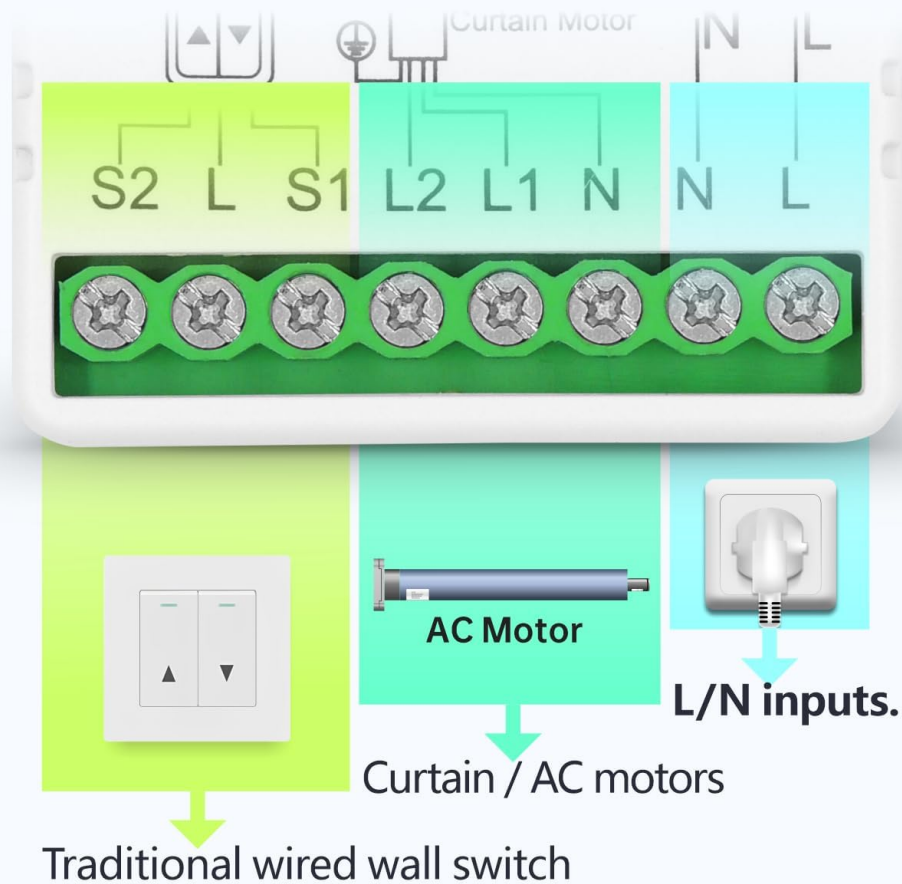Traditional wired wall switch

Image: The mobile application interface illustrating the timing, scheduling, and countdown features for automated curtain control.

- **Family Sharing:** Share control of the device with other family members through the app.

7.2 Voice Control

Integrate the module with Amazon Alexa or Google Home for hands-free control.

1. **Link Account:** In the Alexa or Google Home app, link your Tuya Smart/Smart Life account.
2. **Discover Devices:** Ask your voice 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%"

Image: A demonstration of voice control functionality, showing Amazon Alexa and Google Assistant devices responding to commands to open curtains.

7.3 RF Remote Control

Use a paired 433MHz RF remote control for local operation. The strong RF signal can pass through walls, floors, and doors, offering a control range of 30-50 meters in open areas.

7.4 Manual Switch Control

If a traditional panel switch is wired to the module, you can continue to use it for manual control of your roller shutters.

8. APPLICATIONS

The DieseRC Wi-Fi+RF Smart Roller Shutter Controller Module can be used in various settings to automate and smarten up your home or office:

- **Residential:** Control window blinds, electric curtains, and garage doors in homes.
- **Commercial:** Manage awnings or roller shutters in offices, shops, or factories.
- **Accessibility:** Provides convenient control for individuals with mobility challenges.
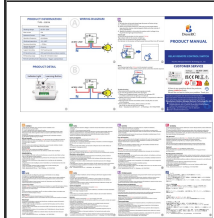
9. TROUBLESHOOTING

- **Module Not Responding:** Check power connections and ensure the module is receiving power. Verify wiring according to the diagrams.
- **App Connection Issues:** Ensure your Wi-Fi network is 2.4GHz. Check if the module is in pairing mode (blinking indicator). Restart your router and the module, then try pairing again.
- **RF Remote Not Working:** Ensure the remote is paired correctly. If not, repeat the RF pairing steps. Check the remote's battery.
- **Motor Not Moving:** Verify the motor is correctly wired to the L1, L2, and N terminals. Check the motor itself for any issues. Ensure the module's load capacity is not exceeded.
- **Voice Control Not Working:** Confirm that your Tuya Smart/Smart Life account is correctly linked to Alexa/Google Home. Ensure the device name is recognized by the voice assistant.

10. SUPPORT

For further assistance or inquiries, please refer to the DieseRC brand store on Amazon or contact customer support through the retailer where the product was purchased. We are committed to providing effective solutions for our customers.

Related Documents - curtainwifi

	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 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 Relay Remote Control Switch Type 2201 - User Manual Comprehensive user manual for the DieseRC Type 2201 Relay Remote Control Switch, detailing technical specifications, wiring diagrams, operating modes (Momentary, Toggle, Latched), programming instructions, troubleshooting, and contact information.
	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 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.

[DieseRC 2201M Relay Remote Control Switch - User Manual and Setup Guide](#)

Comprehensive user manual for the DieseRC 2201M Relay Remote Control Switch. Includes technical specifications, wiring diagrams, pairing instructions, reset procedures, and troubleshooting tips.