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› [DieseRC](#) /

› [DieseRC WiFi Smart Roller Shutter Controller Module with 433Mhz RF Remote Control, Tuya APP WiFi Control Compatible with Alexa/Google Home APP Control and Manual Switch 1 receiver with 1 transmitter](#)

DieseRC 1 receiver with 1 transmitter

DieseRC WiFi Smart Roller Shutter Controller Module

Model: 1 Receiver with 1 Transmitter

PRODUCT OVERVIEW

The DieseRC WiFi Smart Roller Shutter Controller Module is designed to upgrade traditional roller shutters, awnings, or AC motors to smart, controllable systems. It offers versatile control methods including a dedicated mobile application, a 433Mhz RF remote control, and compatibility with manual wall switches. This module integrates seamlessly with 2.4G Wi-Fi networks and supports voice control via Amazon Alexa and Google Home, providing enhanced convenience and automation for your home or office.

The system includes a compact receiver module and a remote control transmitter, allowing for flexible installation and operation. Its robust design ensures reliable performance and broad application across various settings.

SETUP AND INSTALLATION

Before installation, ensure the main power supply is disconnected to prevent electrical hazards. The module is designed for easy integration into most electrical or junction boxes.

Component Identification

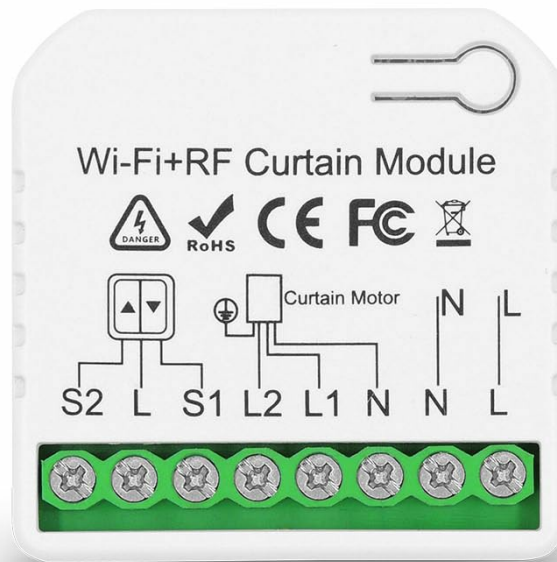


Image: The main components of the system, including the compact Wi-Fi+RF Curtain Module and the 433Mhz RF remote control with its wall-mountable base.

Wiring Diagram

The module is compatible with 4-wire AC motors (2 input phase wires, 1 neutral wire, and 1 earth wire) and 5-wire motors with an integrated driver. Refer to the diagrams below for correct wiring configurations.

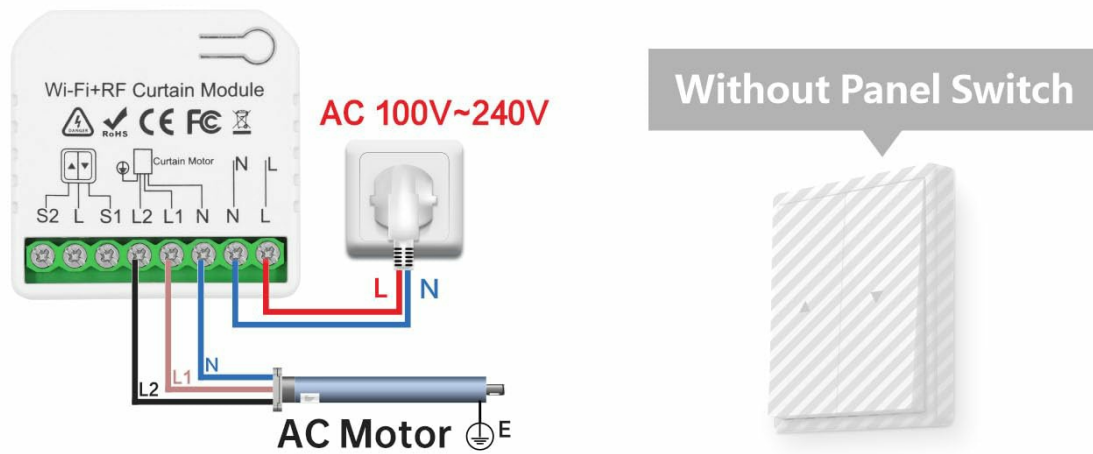
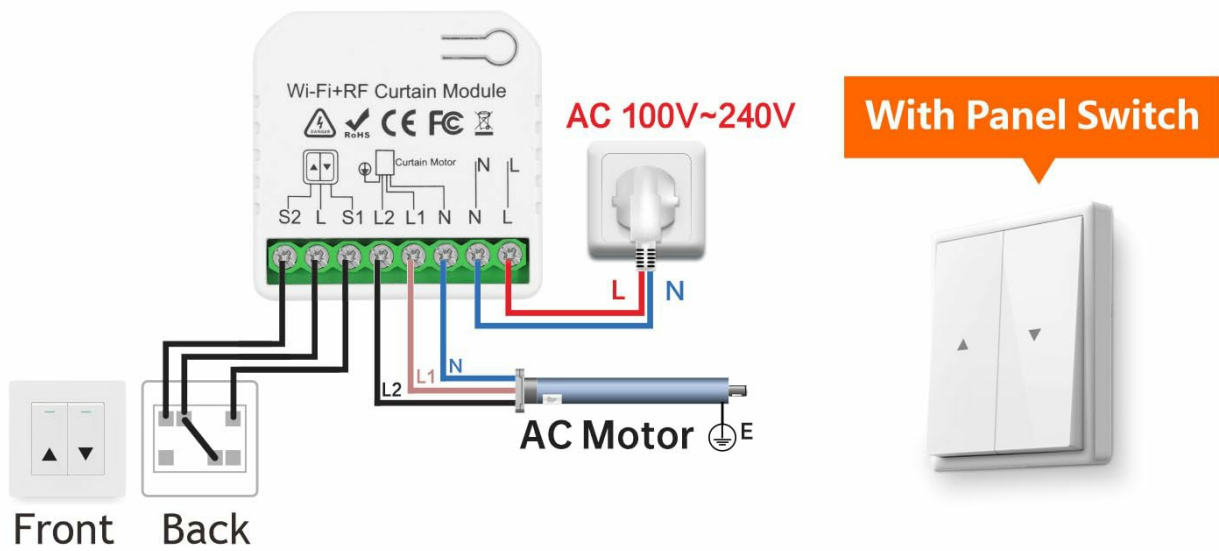
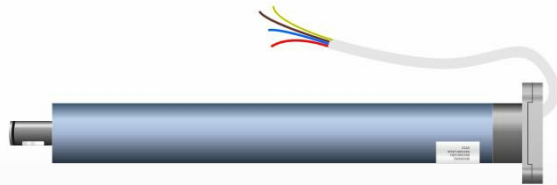
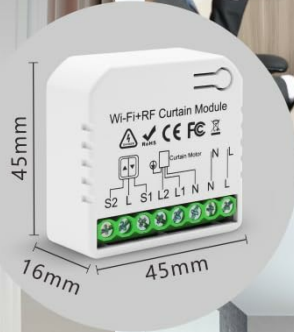
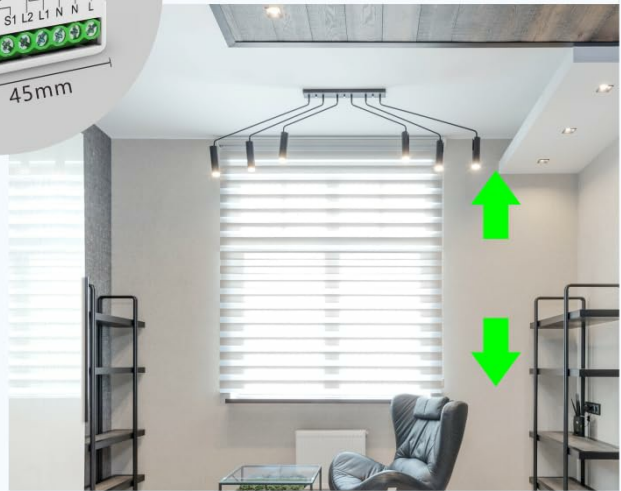


Image: Detailed wiring diagrams showing connections for the module with an existing panel switch (top) and without a panel switch (bottom). Ensure correct AC 100V~240V power input and motor connections (L1, L2, N, Earth).



4-wire AC motor ✓



Widely used in many area

- curtains
- roller blinds
- garage door
- window blinds
- awnings
- sliding door
- roller shutters
- venetian blinds

Image: The module's compact dimensions (45x45x16 mm) are shown, highlighting its suitability for hidden installation. A 4-wire AC motor connection is also illustrated.

Installation Video Guide

Your browser does not support the video tag.

Video: A comprehensive demonstration of the Remote Control Switch, including wiring and setup procedures. This video provides visual guidance for installation and initial configuration.

OPERATING INSTRUCTIONS

The DieseRC Smart Roller Shutter Controller Module offers three primary control methods: APP control, RF remote control, and manual switch operation.

Multiple Control Modes Overview

Multiple control modes

Making your roller shutter to be smart and convenient.



Image: An overview illustrating the three control methods: APP control (Tuya/Smart Life), RF remote control (RF 433), and manual panel switch. Voice control via Alexa/Google Home is also highlighted.

1. APP Control (Tuya / Smart Life)

Control your roller shutters anytime, anywhere using the "Tuya" or "Smart Life" APP. Connect the WiFi switch directly to your 2.4G Wi-Fi network for unlimited wireless control via your smartphone (Android and iOS). The APP also allows for intelligent controls such as percentage function and timer settings.



APP Control

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



Image: A visual representation of the mobile application interface, demonstrating remote control functionality with no distance limit, and showing the module integrated with a panel switch.

For APP download, scan the QR code or visit <https://smartapp.tuya.com/tuyasmart>.

2. RF Remote Control (433Mhz)

The 433Mhz RF remote control switch provides stable and reliable performance with high reception sensitivity. Strong radio frequency signals can pass through walls, floors, and doors, allowing control within approximately 30-50 meters in open areas. One controller switch can store up to 20 transmitters. The remote control transmitter is removable from its base, which can be attached to a wall using the included double-sided sticker or screws.



RF 433

50 m control distance

Base

RF Wireless Control

- Achieve about 30~50 meters control distance .
- The remote control is removable from its base.
- Easy to use. Suitable for the elderly and children.

Image: Depicts the RF wireless control, emphasizing the 50-meter control distance and the remote's removable base for convenient placement.

3. Voice Control (Alexa / Google Home)

The WiFi switch is compatible with Amazon Alexa (Amazon Echo / Dot / Spot) and Google Home, enabling voice control. For example, you can use commands like: "Alexa, open the curtain to 50%."

Voice Control

Compatible with Alexa/GoogleAssistant.

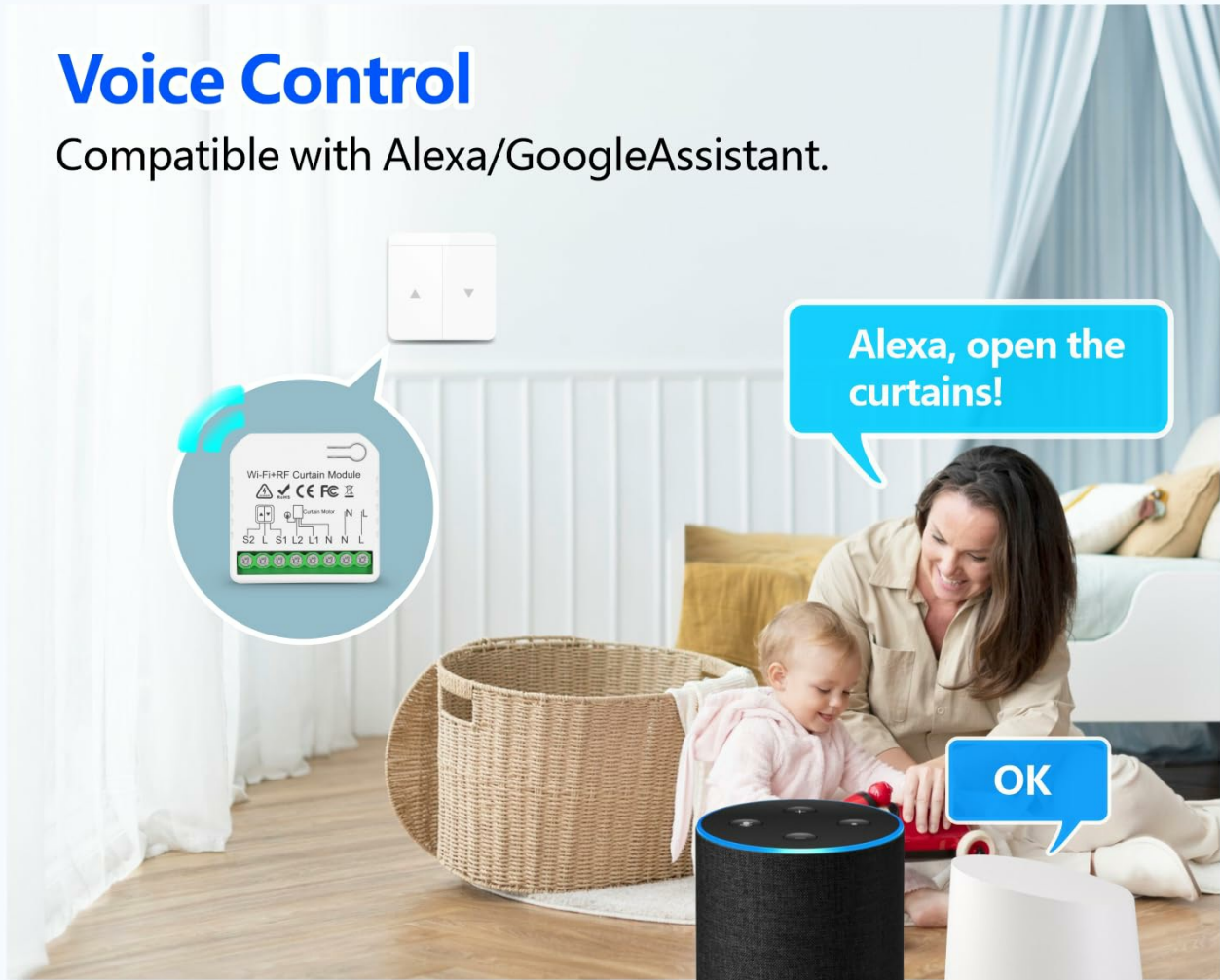


Image: Shows the module integrated with Amazon Alexa and Google Home devices, illustrating voice command functionality for curtain control.

Percentage Control Function

Set the limit movement length from bottom to top to ensure the motor automatically stops when reaching the desired position. This allows for precise control over the opening or closing percentage of your roller shutters.



curtain ——— 80%

- Percentage Control Function
- Limited movement setting, motor automatically stop in the edge.

Image: Demonstrates the percentage control feature within the mobile application, allowing users to set the exact opening/closing position of the curtain.

MAINTENANCE

The DieseRC controller module is designed for durability and longevity. The high-quality relay can withstand over 400,000 operations, and the remote control transmitter can be clicked over 500,000 times.

Battery Replacement for Remote Control

The remote control requires a 27A 12V battery, which is included and typically lasts for about 3 years. The battery can be replaced after disassembling the remote control unit.

General Care

Keep the module and remote control clean and dry. Avoid exposure to extreme temperatures or moisture. Do not attempt to repair the internal components yourself; contact customer support for assistance.

TROUBLESHOOTING

This section provides guidance for common issues you might encounter with your DieseRC WiFi Smart Roller Shutter Controller Module.

Resetting the Module (for WiFi Pairing)

If the module is not entering pairing mode or the blue LED indicator is not blinking, a reset may be required. Press and hold the learning button on the module for approximately 5 seconds until the indicator blinks as expected for pairing mode.

Pairing 433Mhz RF Remote Control

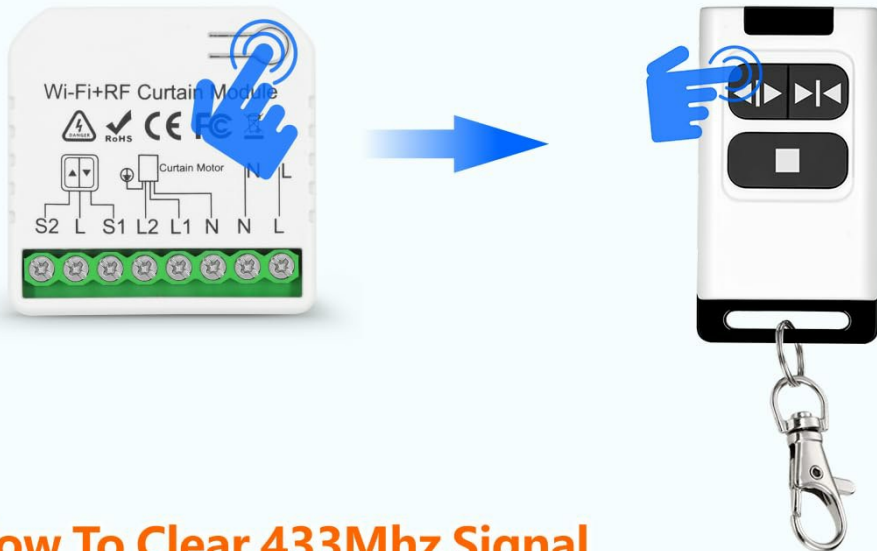
To pair the RF remote control with the module:

1. Press the learning button on the receiver module **1 time**. Wait for 3 seconds.
2. Press any button on the remote control transmitter **1 time**. Wait for 3 seconds. The pairing should succeed.

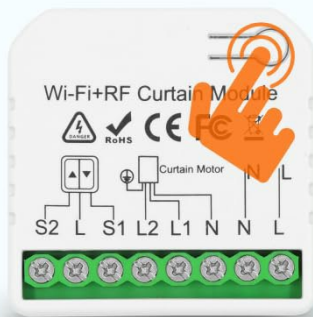
Note: The item may already be pre-paired from the factory.

How To Pair 433Mhz Signals

- ① Press the learning button **1 time**.
Wait for 3 seconds;
- ② Press button "◀▶" **1 time**,
Wait for 3 seconds; Succeed.



How To Clear 433Mhz Signal



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

Image: Step-by-step visual instructions for pairing the 433Mhz RF remote control and clearing its signal from the module.

Clearing 433Mhz RF Remote Control Signal

To clear all paired RF remote control signals from the module, press the learning button on the receiver module **8 times**. The data will be cleaned successfully. After resetting, previously paired transmitters will no longer work and will need to be re-paired if desired.

WiFi Connectivity Issues

Ensure your Wi-Fi network is 2.4Ghz. The module does not support 5Ghz networks. Verify that your smartphone's WiFi and Bluetooth functions are enabled during the pairing process with the Tuya/Smart Life APP.

Your browser does not support the video tag.

Video: This video demonstrates the process of resetting the module, pairing it with the mobile application via WiFi and Bluetooth, and adding/deleting remote controls. It is useful for troubleshooting connectivity and pairing issues.

SPECIFICATIONS

Feature	Detail
Product Dimensions	1.77 x 1.77 x 0.63 inches; 4.23 ounces
Item Model Number	1 receiver with 1 transmitter
Batteries	1 x 12V battery required (included for remote)
Operation Mode	ON-OFF
Current Rating	10 Amps (Max inductive load: approx. 5A)
Operating Voltage	AC 100V~240V (AC 110V/120V/220V/240V compatible)
Contact Type	Normally Open
Connector Type	Crimp
Terminal	Screw
Circuit Type	2-way
Actuator Type	Push Button

WARRANTY AND SUPPORT

DieseRC is committed to providing excellent after-sales service. We strive to resolve any customer issues efficiently and effectively.

For support inquiries, please contact us via email:

dieseelectronic@163.com

We are dedicated to assisting you with any questions or problems related to your DieseRC WiFi Smart Roller Shutter Controller Module.