

CHACON 54854

CHACON DiO Connected Home Wireless Module for Rolling Shutters

Model: 54854 - User Manual

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your CHACON DiO Connected Home Wireless Module for Rolling Shutters, Model 54854. This module enables wireless control of electric roller shutters, allowing for centralized management and integration into a smart home system without extensive electrical modifications.

Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. PRODUCT OVERVIEW

The DiO roller shutter module is designed to add wireless control capabilities to existing electric roller shutters. It facilitates remote operation via various methods, enhancing convenience and home automation.

Key Features:

- Wireless control for electric roller shutters and motors.
- Compatible with 433MHz frequency devices, including RFXCom and RFPlayer.
- Provides Up, Down, and Stop functions for precise shutter positioning.
- Designed for recessed installation, ensuring a discreet and integrated appearance.
- Supports control via wireless wall switches, remote controls, and smartphone applications (with DiO Home+ home automation control).
- Enables voice control through smart speakers like Amazon Alexa or Google Home (requires DiO Home+ home automation control).

3. SPECIFICATIONS

Specification	Detail
Manufacturer	DiO Connected Home

Model Number	54854
Part Number	54854
Item Weight	70 g
Item Package Quantity	1
Batteries Included	No
Batteries Required	No
ASIN	B07QH7RZG5
Frequency	433MHz

4. SAFETY INFORMATION

Warning: Installation must be performed by a qualified electrician and in accordance with all local electrical codes and regulations. Incorrect installation can lead to electric shock, fire, or damage to the device and connected equipment.

- Always disconnect power at the circuit breaker before performing any electrical work.
- Ensure the module is installed in a dry location, protected from moisture and extreme temperatures.
- Do not exceed the maximum load ratings specified for the module.
- Keep the device out of reach of children.

5. SETUP AND INSTALLATION

The DiO wireless module is designed for recessed installation, typically behind an existing switch or within a junction box. The following steps outline the general installation process.

5.1 Module Identification

Familiarize yourself with the module's physical characteristics and connection points.



Figure 1: Front view of the DiO wireless module.



Figure 2: Side view showing terminal connections.



Figure 3: Top-down view of the module with labeled terminals.



Figure 4: Angled view of the module's connections.

5.2 Wiring Diagram and Connection

The module connects between the main power supply and the electric roller shutter motor. Ensure correct polarity and secure connections.

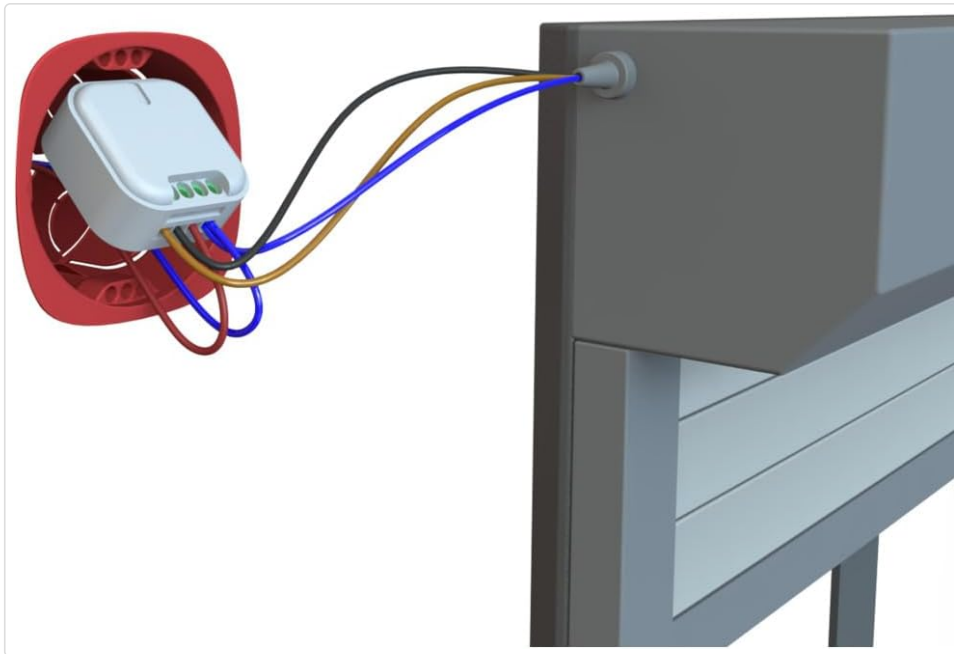


Figure 5: Wiring example for the DiO module and roller shutter motor.

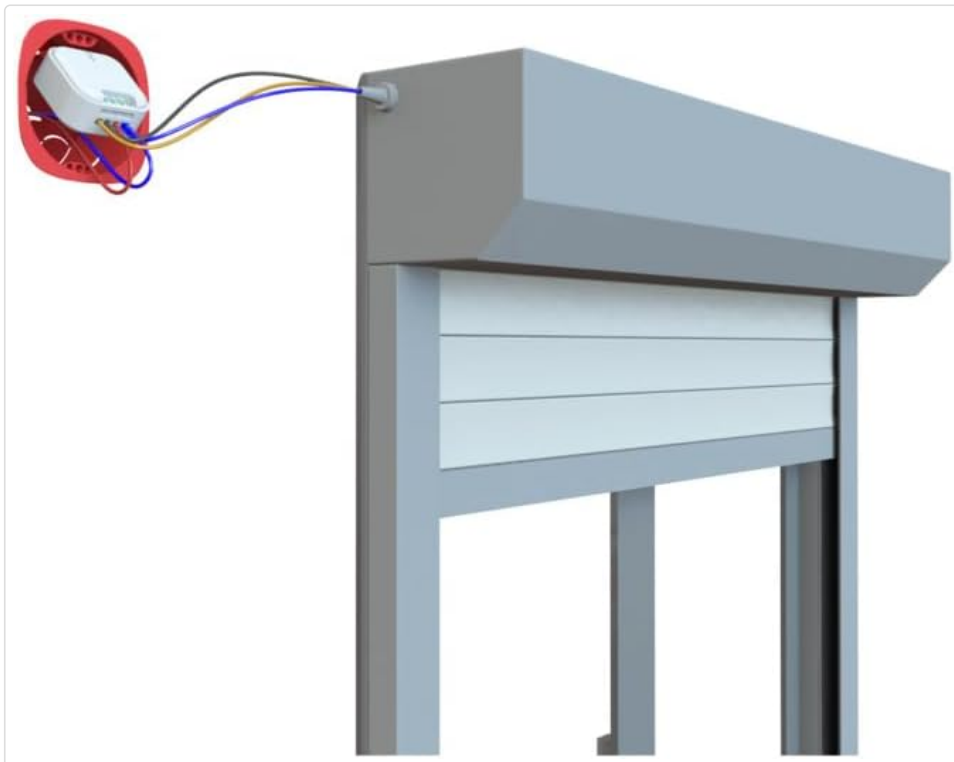


Figure 6: Complete installation overview with the module recessed.

1. **Disconnect Power:** Turn off the main power supply to the roller shutter circuit at your home's circuit breaker.
2. **Access Wiring:** Open the wall box or access point where the roller shutter motor's electrical connections are located.
3. **Connect Power:** Connect the Live (L) and Neutral (N) wires from your main power supply to the corresponding 'L' and 'N' terminals on the DiO module.
4. **Connect Motor:** Connect the Up, Down, and Common wires from your roller shutter motor to the designated motor terminals on the DiO module. Refer to your motor's manual for specific wire identification.
5. **Secure Module:** Carefully place the DiO module into the recessed wall box, ensuring no wires are pinched or exposed.
6. **Restore Power:** Once all connections are secure and the module is safely housed, restore power at the circuit breaker.

6. OPERATING INSTRUCTIONS

After successful installation and pairing, you can control your roller shutters using various DiO compatible devices.

6.1 Basic Control

- **Up Function:** Activates the roller shutter to move upwards.
- **Down Function:** Activates the roller shutter to move downwards.
- **Stop Function:** Halts the roller shutter at its current position.

6.2 Advanced Control (with DiO Home+ Home Automation Control)

- **Smartphone App:** Use the free DiO app to control your shutters from anywhere.
- **Voice Control:** Integrate with Amazon Alexa or Google Home smart speakers for hands-free operation.
- **Centralized Control:** Manage multiple roller shutters simultaneously or create custom scenarios.

7. PAIRING AND CONNECTIVITY

The DiO module operates on the 433MHz frequency. To enable wireless control, it must be paired with a compatible DiO remote control, wireless wall switch, or a DiO Home+ gateway.

7.1 Pairing with a DiO Remote/Switch

1. Ensure the DiO module has power.
2. Refer to the specific instructions for your DiO remote control or wall switch to enter pairing mode.
3. Follow the prompts to link the remote/switch with the module. Typically, this involves pressing a pairing button on the module (if available) or sending a pairing signal from the remote/switch within a short timeframe.
4. Test the connection by operating the roller shutter.

7.2 Integration with DiO Home+ and Smart Speakers

For smartphone app control and voice assistant integration, a DiO Home+ home automation control unit is required. Follow the instructions provided with your DiO Home+ gateway to add the roller shutter module to your smart home system.

7.3 Compatibility

The module is compatible with 433MHz RFXCom and RFPlayer systems, allowing for broader integration into existing home automation setups.

8. TROUBLESHOOTING

If you experience issues with your DiO wireless module, consider the following troubleshooting steps:

- **No Response from Shutter:**
 - Check if the module has power.
 - Verify all electrical connections are secure and correct.
 - Ensure the remote control or switch is properly paired with the module.
 - Check the battery in your remote control, if applicable.
- **Intermittent Control:**
 - Ensure there are no significant obstructions between the control device and the module.
 - Check for potential sources of 433MHz interference in the vicinity.

- **Module Not Pairing:**

- Confirm the module is powered on.
- Follow the pairing instructions precisely and within the specified time window.
- Ensure the control device is compatible with the DiO 433MHz system.

If problems persist, consult the DiO Connected Home support resources or a qualified electrician.

9. MAINTENANCE

The DiO wireless module requires minimal maintenance. Ensure it remains in a dry, protected environment. Periodically check for any loose wiring connections during routine electrical inspections. Do not attempt to open or repair the module yourself, as this will void the warranty and may pose a safety risk.

10. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or visit the official CHACON / DiO Connected Home website. For technical support or further assistance, please contact the manufacturer's customer service department.

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