

Freedompro SW0901-E

Freedompro SW0901-E Smart Mini Wi-Fi Dry Contact Relay Module

User Manual

1. INTRODUCTION

The Freedompro SW0901-E is a compact Wi-Fi enabled dry contact relay module designed to integrate and automate various devices within your smart home ecosystem. This module allows for remote control and smart functionality of appliances or systems that utilize a dry contact input, such as gates, garage doors, alarm systems, boilers, and irrigation systems. It is compatible with leading smart home platforms including Matter, Apple HomeKit, Amazon Alexa, and Google Home, providing versatile control options without the need for an additional hub.

2. SAFETY INFORMATION

WARNING: Installation must be performed by a qualified electrician in accordance with all local electrical codes and regulations. Disconnect power at the circuit breaker before installation, maintenance, or removal of the device. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- Ensure the power supply is completely disconnected before handling the device.
- Do not expose the device to moisture or extreme temperatures.
- Verify correct wiring connections as per the provided diagrams to prevent damage to the device or connected appliances.
- This device is designed for indoor use only within a flush-mounted box.

3. PACKAGE CONTENTS

Please check the package for the following items:

- Freedompro SW0901-E Smart Mini Wi-Fi Dry Contact Relay Module
- QR Code for app pairing
- Instruction booklet (this manual)

4. SPECIFICATIONS

Model Number	SW0901-E
Manufacturer	Freedompro
Dimensions (L x W x H)	1.8 x 4.2 x 4.1 cm (0.71 x 1.65 x 1.61 inches)
Weight	35 grams (1.23 ounces)
Material	Brass
Operating Voltage	110-240 V AC
Current Rating	16 A
Power	Up to 3500 Watts
Switch Type	Relay, 1-way
Contact Type	Dry Contact
Connectivity	Wi-Fi, Matter certified
Compatibility	Apple HomeKit, Amazon Alexa, Google Home, Home Assistant, Homey Pro, Samsung SmartThings

5. SETUP

5.1 Physical Installation

- Disconnect Power:** Before starting any electrical work, ensure the main power supply to the circuit is turned off at the circuit breaker.
- Prepare Installation Location:** The SW0901-E module is designed to be installed in a standard flush-mounted box (e.g., 502/503 type) behind existing switches or buttons.
- Wiring:** Refer to the wiring diagram below for proper connection. Connect the module according to your specific application (e.g., gate opener, boiler control). Ensure all connections are secure using the screw terminals. The module supports cables up to 2.5 mm².

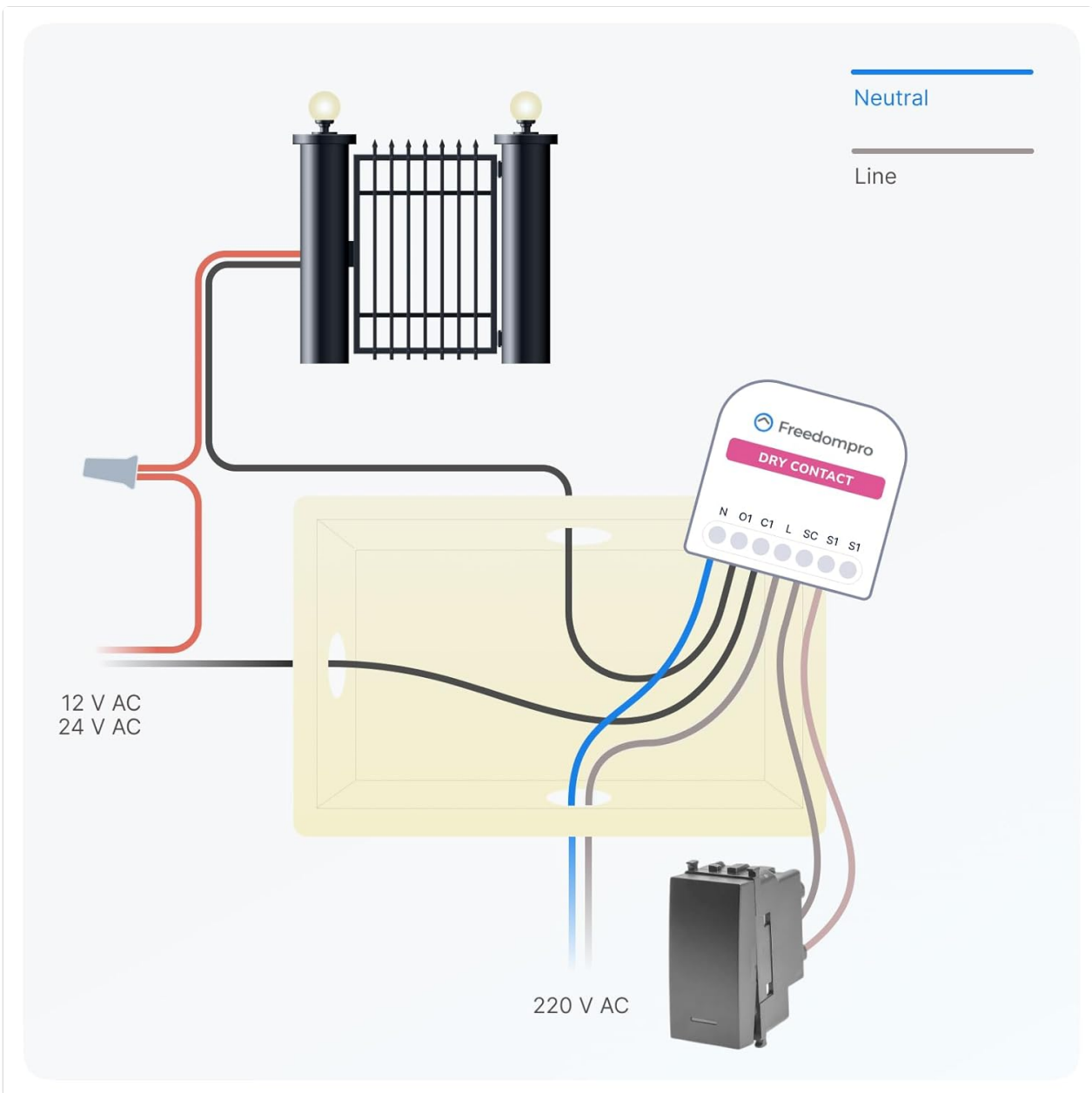


Figure 1: Wiring diagram for the Freedompro SW0901-E Dry Contact Relay Module. This diagram illustrates how to connect the module to a dry contact device, such as a gate, using neutral (N), line (L), and dry contact terminals (SC, S1, O1, C1).

The module is designed for discreet installation behind your existing wall switches or within a suitable electrical box.



110-240 V AC
24 V DC
16 A AC, 14 A DC

Montaggio a parete dietro
pulsanti e interruttori

Figure 2: The Freedompro SW0901-E module shown installed within a flush-mounted box behind a standard wall switch, demonstrating its compact design.

4. **Secure the Module:** Once wired, carefully place the module inside the flush-mounted box, ensuring no wires are pinched.
5. **Restore Power:** After installation is complete and all connections are verified, restore power at the circuit breaker.

5.2 App Integration and Pairing

1. **Download the Freedompro Home App:** Download the official Freedompro Home app from the Apple App Store (for iOS) or Google Play Store (for Android).
2. **Create an Account:** Open the app and follow the on-screen instructions to create a new account or log in to an existing one.
3. **Add Device:** In the app, select the option to add a new device. You will typically be prompted to scan a QR code. Use the QR code provided with your module to initiate the pairing process.
4. **Follow On-Screen Prompts:** The app will guide you through connecting the module to your Wi-Fi network and integrating it with your chosen smart home ecosystem (e.g., Apple HomeKit, Alexa, Google Home).



Figure 3: The Freedompro SW0901-E module displaying its Matter certification and compatibility with various smart home platforms including Apple Home, Google Home, and Alexa.

6. OPERATING

6.1 Remote Control via Freedompro Home App

Once successfully paired, you can control your connected dry contact device directly from the Freedompro Home app:

- **On/Off Control:** Tap the corresponding button in the app to activate or deactivate the dry contact, controlling your connected device (e.g., opening/closing a gate).
- **Scheduling:** Set up schedules for automatic activation or deactivation of your devices at specific times or on certain days.
- **Scenarios:** Create custom scenarios to automate multiple actions with a single command or based on specific conditions (e.g., "Good Morning" scenario to open blinds and turn on a boiler).

CERTIFICATO



matter



Compatibile con

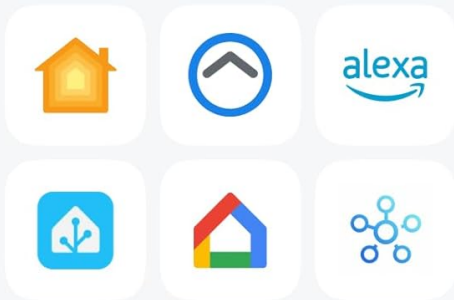


Figure 4: The Freedompro Home app interface demonstrating remote control of a gate, showing an 'On' button for activation.



Figure 5: The Freedompro Home app displaying a 'My Home' screen with various connected devices like a garden gate, garage entrance, boiler, and irrigation system, allowing centralized control.

6.2 Voice Control

The Freedompro SW0901-E module is compatible with major voice assistants. Once integrated with your preferred smart home platform, you can use voice commands:

- **Apple HomeKit:** "Hey Siri, open the garage door."
- **Amazon Alexa:** "Alexa, turn on the irrigation."
- **Google Home:** "Hey Google, activate the boiler."

7. MAINTENANCE

The Freedompro SW0901-E module is designed for durability and requires minimal maintenance.

- **Cleaning:** If necessary, gently wipe the exterior of the module with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Firmware Updates:** Ensure your Freedompro Home app is up to date to receive notifications for any available firmware updates for the module. Regular updates can improve performance and security.

- **Inspection:** Periodically inspect the wiring connections for any signs of wear or loosening, especially during other electrical maintenance.

8. TROUBLESHOOTING

If you encounter issues with your Freedompro SW0901-E module, refer to the following common troubleshooting steps:

- **Device Not Responding:**
 - Check if the module has power.
 - Verify your Wi-Fi network is active and the module is within range.
 - Restart your Wi-Fi router.
 - Ensure the module's firmware is up to date via the Freedompro Home app.
- **Cannot Pair with App:**
 - Ensure your smartphone is connected to a 2.4 GHz Wi-Fi network during the pairing process.
 - Check that the QR code is clean and clearly visible for scanning.
 - Try resetting the module (refer to the Freedompro Home app or manufacturer's website for specific reset procedures).
- **Integration with Smart Home Platform (e.g., HomeKit, Alexa, Google Home) Issues:**
 - Ensure the Freedompro Home app is successfully connected to the respective smart home platform.
 - Verify that the module is visible and enabled within the Freedompro Home app.
 - For HomeKit, ensure your Home Hub (e.g., Apple TV, HomePod, iPad) is online and updated.
 - For Alexa/Google Home, ensure the Freedompro skill/service is enabled in their respective apps.
- **Incorrect Wiring:** If the device is not functioning as expected after installation, double-check all wiring connections against the diagram in Section 5.1. Incorrect wiring can prevent operation or cause damage.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please contact Freedompro directly. As the manufacturer and seller, Freedompro provides assistance for their products.

- **Manufacturer:** Freedompro
- **Support:** Refer to the Freedompro official website or the Freedompro Home app for contact details and support resources.