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## DieseRC EW-4CH

# DieseRC EW-4CH 4-Channel WiFi Smart Switch User Manual

Model: EW-4CH

## INTRODUCTION

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The DieseRC EW-4CH is a versatile 4-channel WiFi smart switch relay module designed for remote control and automation of various electrical devices. It offers stable and reliable performance with high reception sensitivity via 2.4 GHz WiFi. This module allows you to control devices from anywhere using the eWelink APP and integrates with voice assistants like Amazon Alexa and Google Home. It supports both inching and self-locking operating modes, providing flexibility for different applications.

The module features four independent relays with potential-free (dry) contacts, each rated for 10A. It can be powered by DC 5V (via USB) or DC 7V-48V (via terminal block), making it compatible with a wide range of power sources and applications.

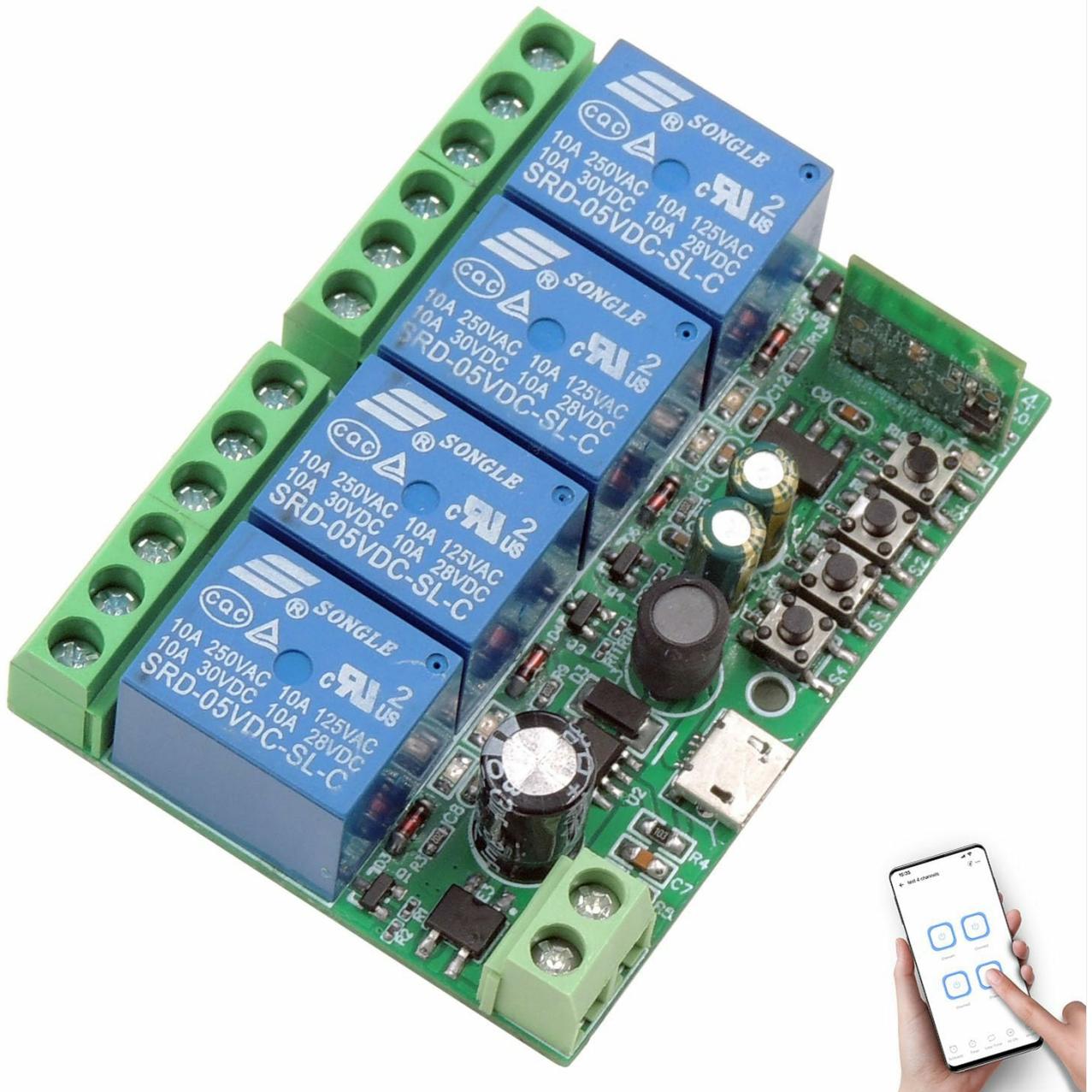


Figure 1: Overview of the Dieserc EW-4CH 4-Channel WiFi Smart Switch Module.

## SAFETY INFORMATION

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- Ensure all power is disconnected before installation or wiring to prevent electric shock.
- This device operates with electrical currents. Improper installation or use can be dangerous.
- Do not exceed the maximum current rating of 10A per relay.
- Ensure proper insulation for all connections.
- Operate the device within its specified voltage range (DC 5V or DC 7V-48V).
- Keep the device away from water, moisture, and extreme temperatures.
- If you are unsure about any wiring procedures, consult a qualified electrician.

## SETUP

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### 1. Physical Installation and Wiring

The EW-4CH module is compact (65x48x17 mm) and can be easily hidden in most electrical boxes or junction

boxes. It offers flexible power input options and passive output relays.

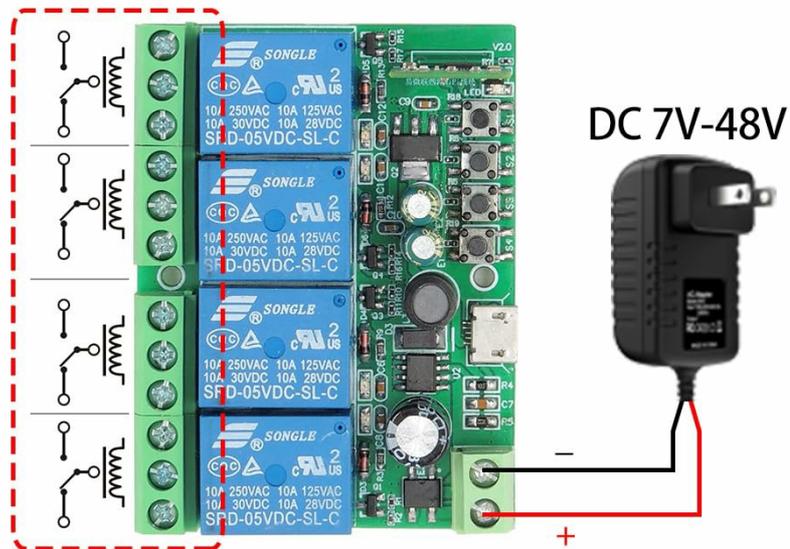
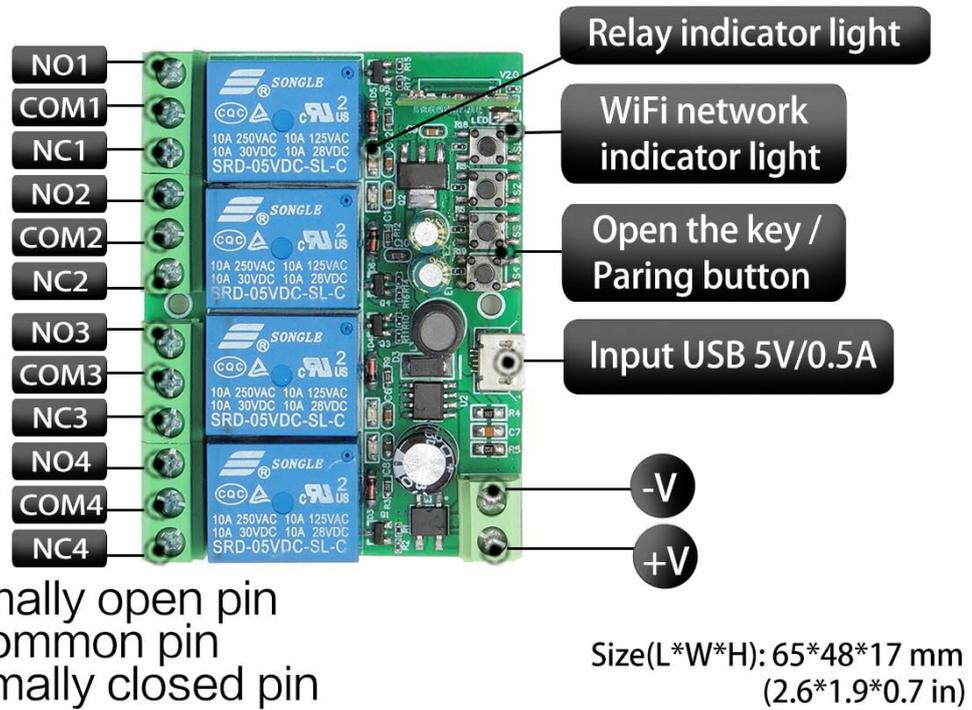


Figure 2: Module components including relay indicator lights, WiFi indicator, pairing button, USB input, and terminal definitions (NO, COM, NC).

- **Power Input:** The module can be powered in two ways:
  - Via Micro USB: DC 5V/0.5A.
  - Via Terminal Block: DC 7V-48V/0.5A.
- **Relay Connections:** Each of the four relays has three terminals:
  - **NO (Normally Open):** The circuit is open when the relay is off, and closes when the relay is activated.
  - **COM (Common):** The common terminal for the relay.
  - **NC (Normally Closed):** The circuit is closed when the relay is off, and opens when the relay is activated.

Figure 3: Power input options: DC 7V-48V via terminal or DC 5V via USB.

# 4 Wiring modes

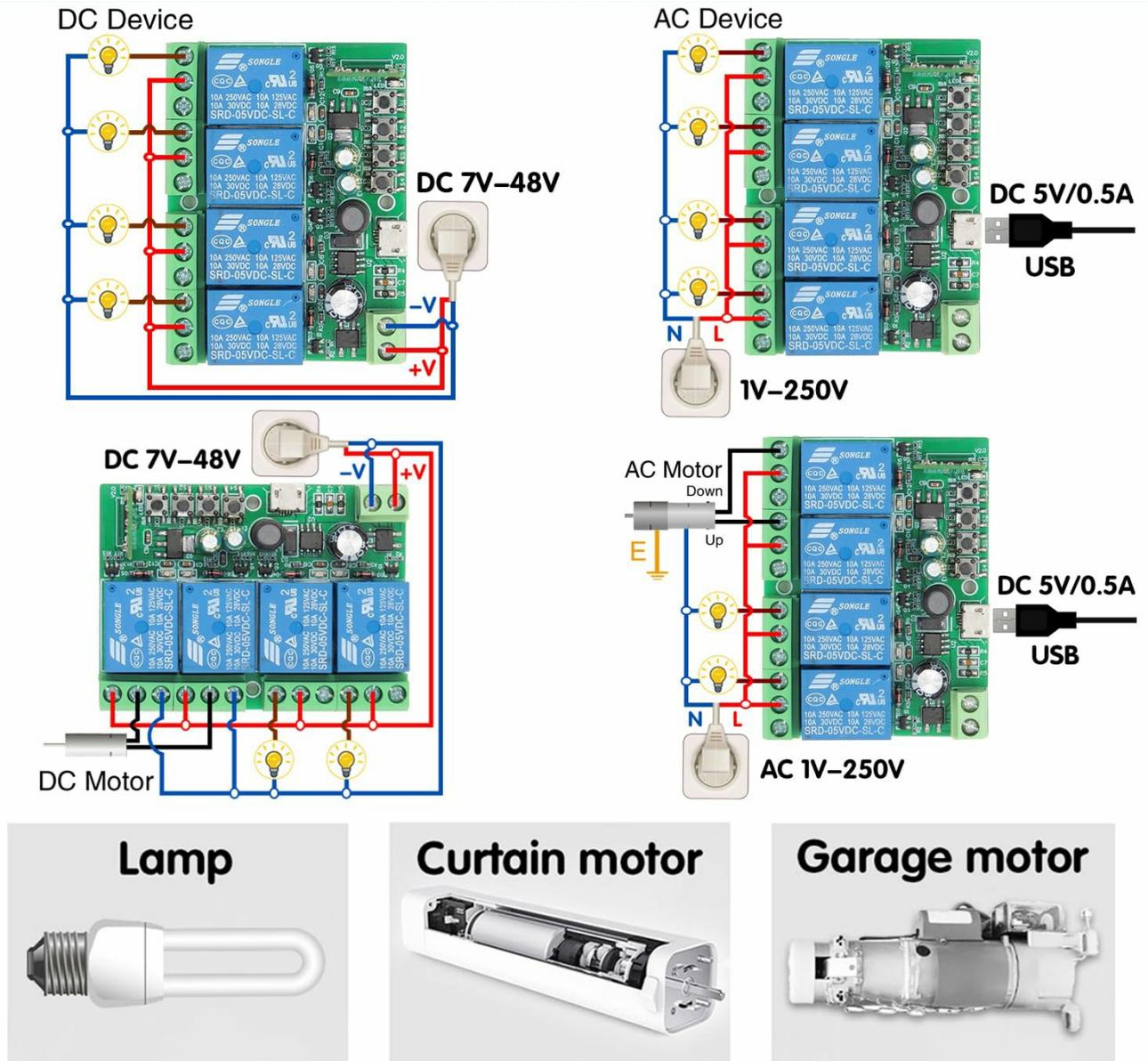


Figure 4: Examples of wiring modes for DC devices (lamps, motors) and AC devices (lamps, motors) using the module's passive output relays.

## 2. eWELink APP Installation

The smart switch is controlled via the eWELink APP, available for Android and iOS devices.

- Download the eWELink APP from your device's app store or scan the QR code below.
- Create an account or log in if you already have one.



Figure 5: Scan this QR code to download the eWELink APP. Alternatively, visit <http://app.coolkit.cc/dl.html>.

### 3. Device Pairing

- Power on the EW-4CH module.
- Open the eWelink APP and tap the '+' icon to add a device.
- Follow the in-app instructions to put the device into pairing mode (usually by pressing and holding the pairing button on the module until the WiFi indicator light blinks).
- Connect the device to your 2.4 GHz WiFi network.

## OPERATING MODES

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The EW-4CH supports two main operating modes: Inching (Momentary) and Self-locking (Toggle).

- **Inching Mode:** The relay activates for a set duration (e.g., 0.5 to 3600 seconds) and then automatically deactivates. This is suitable for applications like garage door openers or pulse-triggered devices.
- **Self-locking Mode:** The relay toggles its state with each activation. One press turns it on, another press turns it off. This is suitable for traditional on/off control of lights or appliances.

You can configure these modes within the eWelink APP for each relay independently.



Figure 6: The smart switch module can function as a control interface similar to traditional switches or buttons.

## APP Control

Control your connected devices anytime, anywhere using the eWelink APP on your smartphone (Android and iOS).



## APP Control

Control your devices anytime, anywhere with "eWeLink" APP.



Figure 7: Remote control of devices via the eWeLink APP, demonstrating control of a garage door from a beach location.

### Voice Control

The EW-4CH is compatible with Amazon Alexa and Google Home, allowing for hands-free control of your devices.

- Link your eWeLink account to Amazon Alexa or Google Home through their respective apps.
- Use voice commands such as "Alexa, turn on the light" or "Hey Google, open the garage door."

# Voice control

Control the light without hands

Alexa, open the light!

OK



Figure 8: Voice control integration with Amazon Alexa and Google Home for convenient device operation.

## Scheduling and Timers

The eWelink APP allows you to set schedules, timers, and countdowns for automated operation of your devices.

**08:00**  
open the lights

**22:00**  
close the lights

**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 lights. Never worry about forgetting to turn off again.

Figure 9: Example of setting a schedule to automatically open and close lights using the eWelink APP.

### Optional Remote Control

The smart switch is compatible with an optional RM2.4G Bluetooth remote control (not included) for additional control flexibility.

## Multiple control modes make life more convenient



Figure 10: Overview of various control methods: APP, voice, and optional Bluetooth remote control.

## MAINTENANCE

- Keep the device clean and free from dust. Use a dry, soft cloth for cleaning.
- Avoid exposing the device to direct sunlight, high humidity, or corrosive environments.
- Regularly check wiring connections to ensure they are secure.
- Ensure the device has adequate ventilation if installed in an enclosed space.

## TROUBLESHOOTING

- **Device not connecting to WiFi:**
  - Ensure your WiFi network is 2.4 GHz. The device does not support 5 GHz WiFi.
  - Check if the WiFi signal strength is adequate at the device's location.
  - Verify your WiFi password is entered correctly in the eWeLink APP.
  - Try resetting the device to factory settings (refer to the pairing instructions) and re-pairing.

- **Device not responding to APP/Voice commands:**

- Check if the device is connected to WiFi (WiFi indicator light should be solid).
- Ensure your smartphone has an active internet connection.
- Verify that the eWelink APP is updated to the latest version.
- For voice control, ensure your eWelink account is correctly linked to Alexa/Google Home.

- **Relay not activating/deactivating:**

- Check the power supply to the module.
- Verify the wiring connections to the load are correct (NO, COM, NC).
- Ensure the load's current draw does not exceed 10A.
- Check the operating mode settings (Inching/Self-locking) in the eWelink APP.

## SPECIFICATIONS

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<b>Brand</b>	DieseRC
<b>Model Number</b>	EW-4CH
<b>Product Dimensions</b>	65 x 48 x 17 mm (2.6 x 1.9 x 0.7 inches)
<b>Weight</b>	60 g
<b>Input Voltage</b>	DC 5V (USB) or DC 7V-48V (Terminal)
<b>Output Type</b>	Passive Output (Dry Contacts)
<b>Relay Current Rating</b>	10 Ampere per channel
<b>Contact Type</b>	Normally Open (NO), Normally Closed (NC), Common (COM)
<b>Connectivity</b>	2.4 GHz WiFi
<b>Control Modes</b>	APP Control (eWelink), Voice Control (Alexa/Google Home), Optional Bluetooth Remote Control
<b>Operating Modes</b>	Inching (Momentary), Self-locking (Toggle)

## WARRANTY

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This product comes with a standard manufacturer's warranty. Please refer to the product packaging or contact DieseRC customer support for specific warranty terms and conditions.

## SUPPORT

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For technical assistance, troubleshooting, or further inquiries, please contact DieseRC customer support through their official website or the contact information provided with your purchase. Ensure you have your product model number (EW-4CH) ready when seeking support.

