

Newgoal 4CH

Newgoal 4-Channel Smart Wireless Relay Switch

Model: 4CH Tuya App/Smart Life

Brand: Newgoal

1. INTRODUCTION

The Newgoal 4-Channel Smart Wireless Relay Switch is a versatile device designed for home automation, allowing remote control of connected appliances or power circuits. It supports multiple operating modes, including momentary (inching), self-locking, and interlock, and can be controlled via the Tuya Smart Life mobile application, a 433MHz RF remote control, or voice commands through Amazon Alexa and Google Home.

2. SAFETY INFORMATION

- Ensure all power is disconnected before installation or wiring to prevent electric shock.
- This device operates with electrical currents. If you are unsure about electrical wiring, consult a qualified electrician.
- Do not exceed the maximum rated current of 10 Amperes or voltage of 250V AC/DC.
- The device supports 2.4GHz Wi-Fi networks only. It is not compatible with 5GHz Wi-Fi or Mesh Wi-Fi systems.
- Keep the device away from water and extreme temperatures.

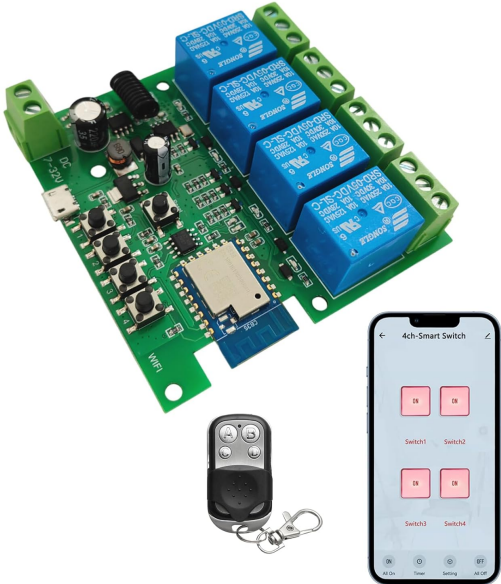
3. PACKAGE CONTENTS

- 1 x Newgoal 4-Channel WiFi Relay Module
- 1 x 433 MHz RF Remote Control
- 1 x User Manual (English and Chinese)

4. SPECIFICATIONS

Feature	Specification
Model	4CH Tuya App/Smart Life
Dimensions	7.4 x 7.4 x 1.9 cm
Weight	98 g
Power Supply	USB 5V or AC/DC 7-32V
Rated Current	10 Amperes (per channel)
Operating Voltage (Relay Output)	AC 0-250V / DC 0-30V
Contact Type	Normally Open (NO), Common (COM), Normally Closed (NC)
Circuit Type	4-way
Wireless Connectivity	Wi-Fi 2.4GHz (IEEE 802.11 b/g/n)
RF Control	433MHz (Fixed code / Learning code, up to 14 codes per gang)
App Support	Tuya Smart Life (Android/iOS)
Voice Control	Amazon Alexa, Google Home
Operating Modes	Momentary (Inching), Self-locking, Interlock

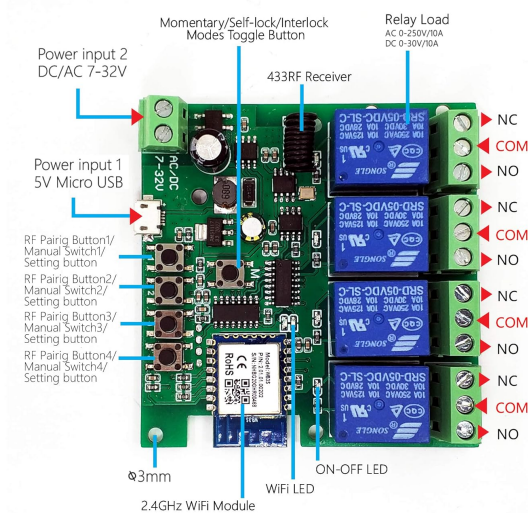
5. PRODUCT OVERVIEW



The Newgoal 4-Channel Smart Wireless Relay Switch module, accompanied by its 433MHz RF remote control and a smartphone displaying the Tuya Smart Life app interface for controlling the four channels.



An overview of the key features, including compatibility with Tuya and Smart Life apps, individual control, three working modes, smart timer functions, device sharing, 433RF control, WiFi control, and integration with Google Assistant and Amazon Alexa.



Mini Size:69mm(L)*68mm(W)*19mm(H)

A detailed diagram of the relay module, highlighting components such as Power Input 1 (5V Micro USB), Power Input 2 (DC/AC 7-32V), RF Pairing Buttons/Manual Switches, WiFi LED, 2.4GHz WiFi Module, and Relay Load terminals (NC, COM, NO) for each of the four channels.

Dimensions are also indicated.

6. SETUP

6.1 Powering the Device

The relay module can be powered in two ways:

- **USB 5V:** Connect a standard Micro USB cable to the 'Power Input 1' port.
- **AC/DC 7-32V:** Connect a power source within this voltage range to the 'Power Input 2' screw terminals.

Note: The power supply input is for the PCBA (circuit board) only. The relays themselves are switches without output; they control the power to your connected devices.

6.2 Wiring Connected Devices

Refer to the wiring diagrams in Section 9 for specific connection instructions based on your desired operating mode and device type. Each relay has Normally Open (NO), Common (COM), and Normally Closed (NC) terminals. Connect your appliance's power line through the appropriate relay terminals.

6.3 App Installation and Device Pairing (Tuya Smart Life)

1. Download the **Tuya Smart** or **Smart Life** app from the App Store (iOS) or Google Play Store (Android).
2. Register or log in to your account.
3. Ensure your smartphone is connected to a 2.4GHz Wi-Fi network. The device does not support 5GHz Wi-Fi.
4. Power on the Newgoal relay module. The WiFi LED should blink, indicating it's in pairing mode. If not, press and hold the central button on the module for 5 seconds until the LED blinks rapidly.
5. In the app, tap '+' to add a device. The app should automatically discover the device nearby. Follow the on-screen instructions to connect the device to your Wi-Fi network.
6. Once connected, you can rename the device and individual channels within the app.

6.4 RF Remote Control Pairing

To pair the 433MHz RF remote control with the relay module:

1. Press and hold one of the manual switch buttons (RF Pairing Button) on the relay module for 3 seconds. The corresponding LED will illuminate.
2. While the LED is lit, press the desired button on your 433MHz remote control. The LED on the module will flash to confirm successful pairing.
3. Repeat this process for each channel you wish to control with the remote. The module can learn up to 14 different 433MHz codes per channel.

To clear all paired RF codes for a specific channel, press and hold the corresponding manual switch button for 15 seconds until the LED flashes rapidly and then turns off.

7. OPERATING MODES

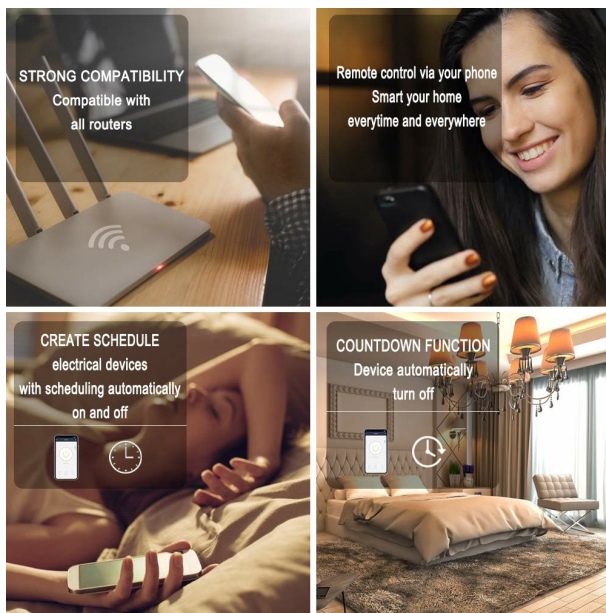
The Newgoal 4-Channel Smart Wireless Relay Switch supports three operating modes, which can be configured via the Tuya Smart Life app:

- **Momentary (Inching) Mode:** In this mode, the relay turns on for a set duration (e.g., 1 second) and then automatically turns off. This is ideal for applications like garage door openers or momentary button presses. You can configure two wiring ways: turn on for 1s then auto-off, or turn off for 1s then auto-on.
- **Self-locking Mode:** The relay acts like a standard toggle switch. Pressing the button (in app or on remote) turns the relay ON, and pressing it again turns it OFF. This is suitable for controlling lights or other devices that need to stay on or off until manually changed.
- **Interlock Mode:** (Supported on 2-gang and 4-gang versions) In this mode, only one relay can be ON at a time. If one relay is activated, any other active relay in the group will automatically turn OFF. This is useful for controlling motors with forward/reverse functions or ensuring only one device operates at a time.

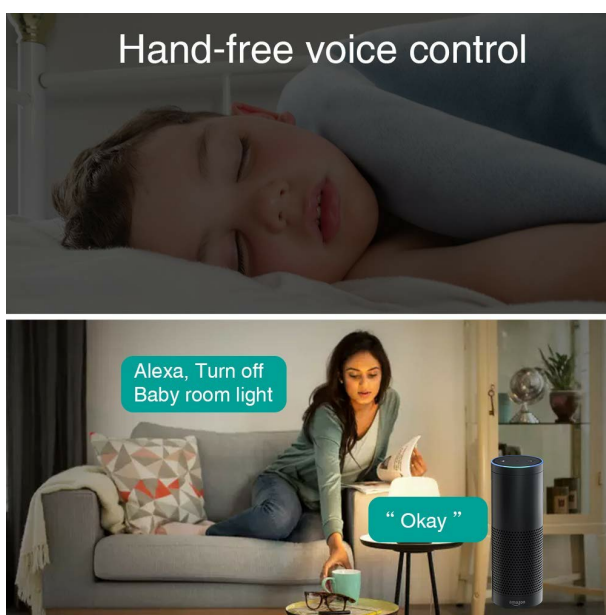
8. APP CONTROL (TUYA SMART LIFE)

Once paired, the Tuya Smart Life app provides comprehensive control and automation features:

- **Remote On/Off:** Control connected devices from anywhere with an internet connection.
- **Timing Schedules:** Set schedules for devices to turn on or off automatically at specific times.
- **Countdown Function:** Set a timer for a device to automatically turn off after a specified duration.
- **Device Sharing:** Share control of the device with family members.
- **Group Management:** Group multiple devices together for simultaneous control.
- **Scene Automation:** Create custom scenes and automations based on conditions like time, weather, or other smart devices.



The smartphone app offers strong compatibility with all routers and enables remote control of your smart home from anywhere, anytime.



Screenshots illustrating the 'Create Schedule' feature for electrical devices to turn on and off automatically, and the 'Countdown Function' for devices to automatically turn off after a set period.

8.1 Voice Control Integration

The device is compatible with Amazon Alexa and Google Home. After linking your Tuya Smart Life account in the Alexa or Google Home app, you can use voice commands to control your connected devices. For example:

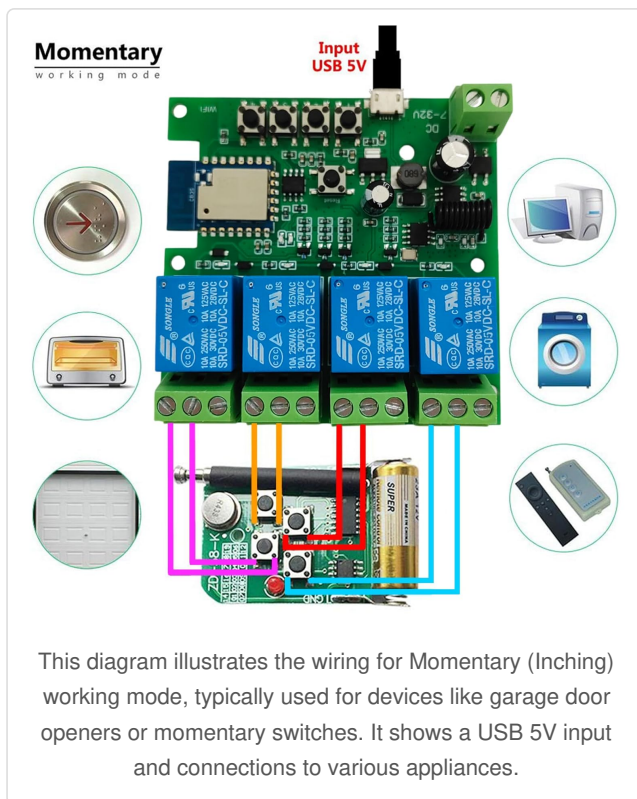
- "Alexa, turn on Switch 1."
- "Hey Google, turn off the living room light."

Note: Currently, US/UK English and German voice commands are supported.

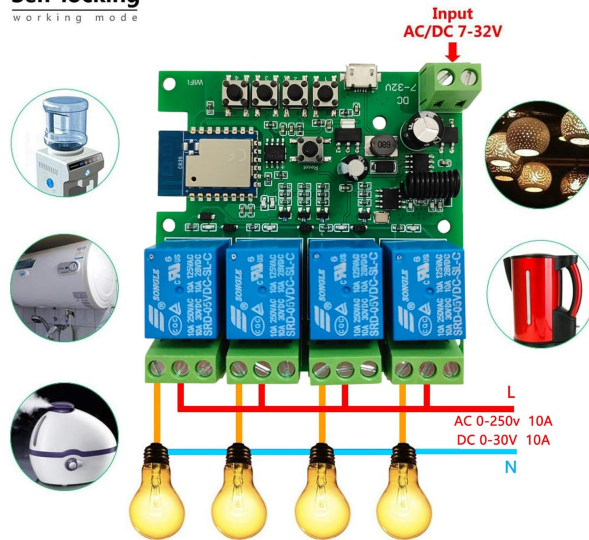
An illustration of hand-free voice control, showing a user asking Alexa to turn off a baby room light, demonstrating the convenience of smart assistant integration.

9. WIRING DIAGRAMS

Proper wiring is crucial for safe and correct operation. Always ensure power is off before making any connections.

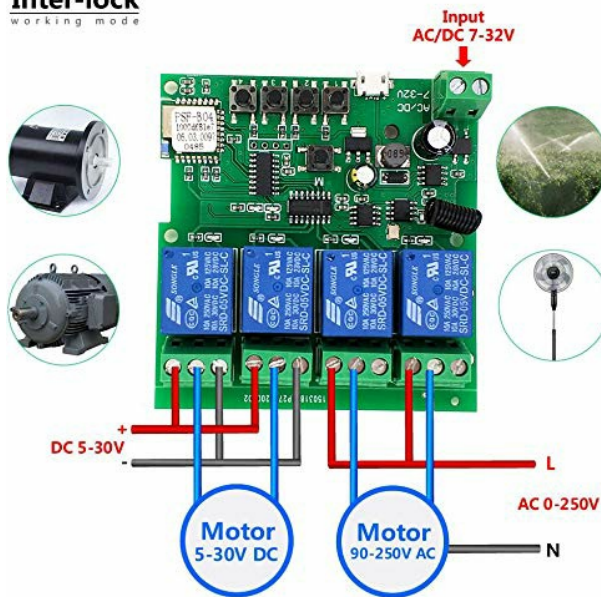


Self-locking working mode



This diagram shows the wiring for Self-locking working mode, suitable for controlling lights, water dispensers, or kettles. It uses an AC/DC 7-32V input and demonstrates how to connect multiple light bulbs.

Inter-lock working mode



This diagram details the wiring for Interlock working mode, primarily used for controlling AC/DC motors, such as those found in irrigation systems or fans. It shows an AC/DC 7-32V input and connections for two motors.

10. MAINTENANCE

- Keep the device clean and free from dust.
- Avoid exposing the device to moisture or direct sunlight.
- Regularly check wiring connections to ensure they are secure.
- Periodically update the Tuya Smart Life app to ensure optimal performance and access to new features.

11. TROUBLESHOOTING


- **Device not connecting to Wi-Fi:**
 - Ensure your Wi-Fi network is 2.4GHz. 5GHz networks are not supported.
 - Make sure the device is within range of your Wi-Fi router during pairing.
 - Check if the Wi-Fi password entered in the app is correct.
 - Try resetting the device by holding the central button for 5 seconds until the WiFi LED blinks rapidly, then attempt pairing again.
- **RF Remote not working:**
 - Ensure the remote control has a working battery (27A 12V).
 - Re-pair the remote control with the specific channel on the module (refer to Section 6.4).
 - Ensure the remote is within the maximum range of 30 meters (98 feet).
- **Connected appliance not responding:**
 - Verify that the relay module is powered on and the WiFi LED is solid (indicating a stable connection).
 - Check the wiring connections to the appliance (refer to Section 9). Ensure they are secure and correct for the chosen operating mode.
 - Confirm the appliance itself is functional.
- **Voice control not working:**
 - Ensure your Tuya Smart Life account is correctly linked to your Amazon Alexa or Google Home app.
 - Check that the device names in the smart assistant app match those in Tuya Smart Life.
 - Verify your voice commands are in a supported language (US/UK English, German).




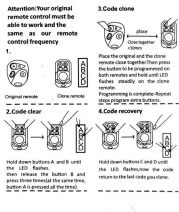

12. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact Newgoal customer service through their official channels. Keep your purchase receipt for warranty claims.

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Related Documents - 4CH

	<p>Sonoff 4CH Pro (R2) User Guide: Setup, Wiring, and Modes</p> <p>Comprehensive user guide for the Sonoff 4CH Pro (R2), covering app download, wiring instructions for AC and DC motors, WiFi remote control setup, working mode configurations (self-locking, inching, interlock), RF remote pairing, app features like sharing and timing, and troubleshooting common issues.</p>
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	<p>Zigbee Smart Switch Modules: Features, Modes, and Control Options</p> <p>Explore the features of Zigbee smart switches, including self-locking, interlock, and jog modes. Learn about voice control with Alexa and Google Assistant, app remote control via Tuya and eWeLink, timer schedules, and wiring diagrams for various applications.</p>
	<p>Sonoff 4CH Pro (R2) User Guide - Smart WiFi Switch</p> <p>Comprehensive user guide for the Sonoff 4CH Pro (R2), a 4-channel DIN rail mounting 433MHz RF remote WiFi switch. Learn about installation, wiring, working modes (inching, interlock, self-locking), app control via eWeLink, RF remote pairing, and troubleshooting.</p>
	<p>SUN 4CH 433 MHz Transmitter User Manual and Compliance</p> <p>This document provides instructions for the SUN 4CH 433 MHz transmitter, including setup, operation, and safety precautions. It also includes the Declaration of Conformity for the device.</p>
	<p>Remote Control Code Cloning, Clearing, and Recovery Guide</p> <p>Step-by-step instructions for cloning, clearing, and recovering codes on 4-channel remote controls, suitable for garage door openers and gate systems. Learn how to duplicate your remote's signal.</p>
	<p>Dingtian IoT Relay User Manual V1.9.6</p> <p>User manual for the Dingtian IoT Relay (V1.9.6), detailing features, specifications, Ethernet and WiFi configuration, and integration with Domoticz and Home Assistant. Includes protocols like MQTT, CoAP, and Modbus.</p>