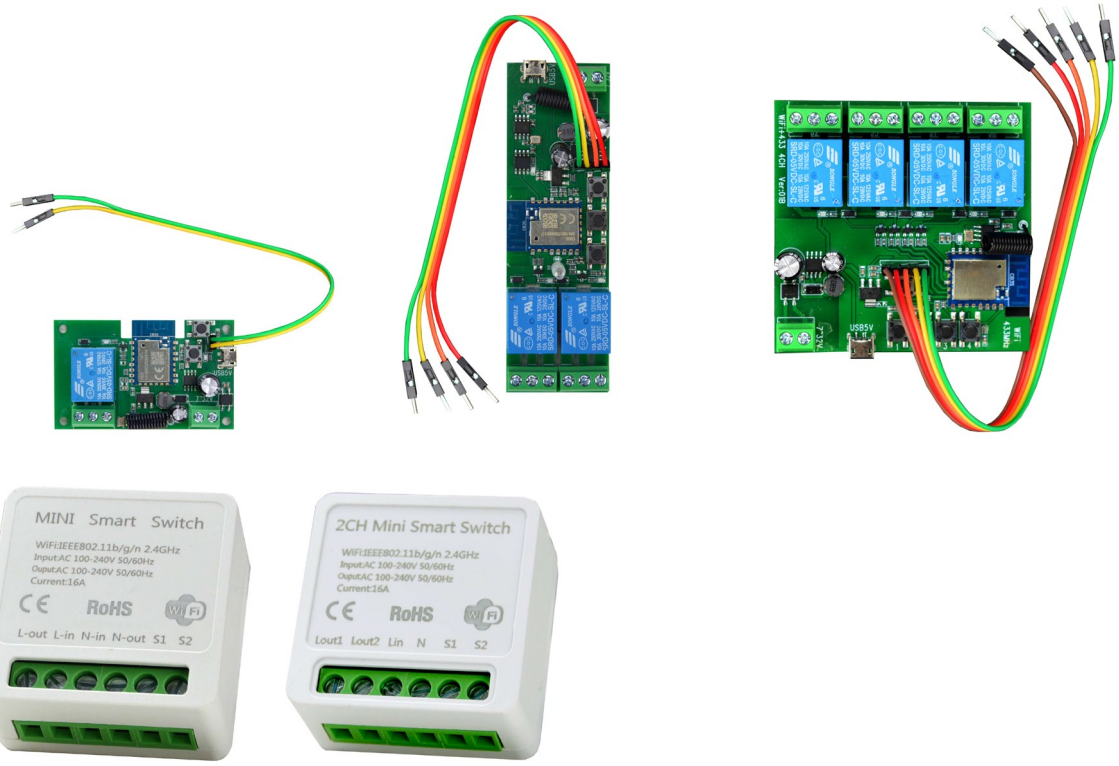
WiFi remote controls

NO/NC relay: DM-WFC-1R/2R/4R AC

switches/buttons: DM-WFC-1B/2B



Installation manual

How to install and use the Wi-Fi remote control

What did you buy?

These wifi remote controls are devices that can add remote control via the Internet
via WiFi to any electrical device. You can connect these remote controls to your WiFi network.
and then operate them as you wish with the Tuya home automation app, the most widespread in the world, both in connection
local wifi, both over the Internet, when you are not at home.

This manual explains how to install and configure the devices.

Electrical connection DM-WFC-1B

DM-WFC-1B is a module with 1 220V switch/button that can be controlled remotely via wifi. It can operate in both stable (ON/OFF) and impulsive mode, with an operating time programmable. You can use this module to operate an electrical appliance in alternating current up to 10A, such as lighting, pumps, irrigation etc. The module has also 1 input to connect any local control buttons. This way you can Operate the device either via the app, via Wi-Fi, or via the local switch.
Given its small size, you can also install the module in the same box where it is mounted the traditional switch.
NOTE: These switches/buttons can only control AC loads with the same voltage supplied to the module (for example 220VAC). If you need a clean contact instead, To control any device or perform different functions, you need a relay board Wi-Fi (see below)

L-in / N-in –Connect 110..240VAC input power supply

L-out / N-out–Connect the 110..240VAC device to be controlled

S1 / S2–Connect local switch

INDICATION LED

There is an internal blue LED with the following functions:

LED on=Relay activated

LED off–Relay deactivated

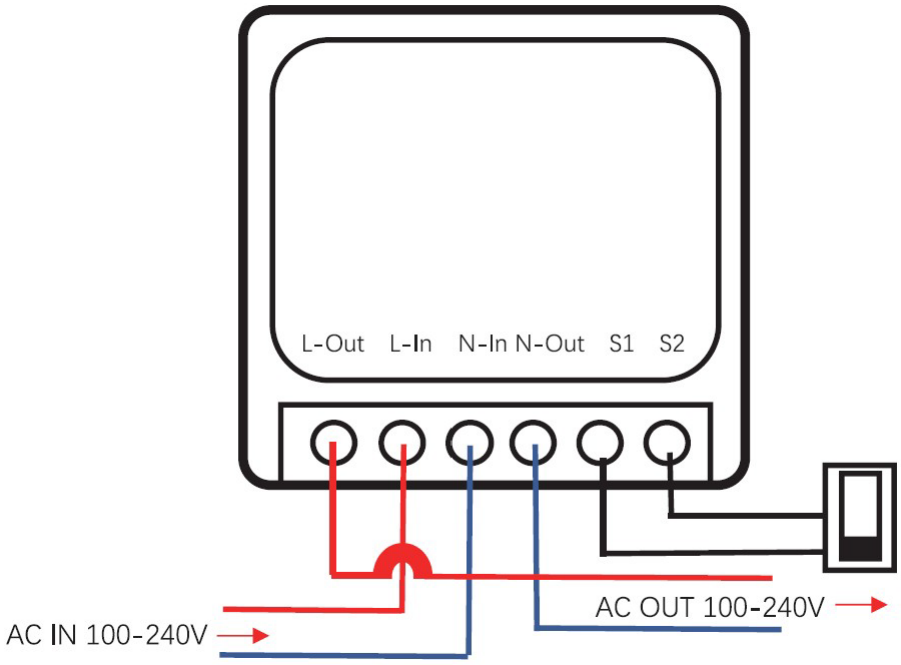
Flashing LED=Waiting for wifi setup

POWER CONNECTION

The product is powered directly from the 100-240VAC network

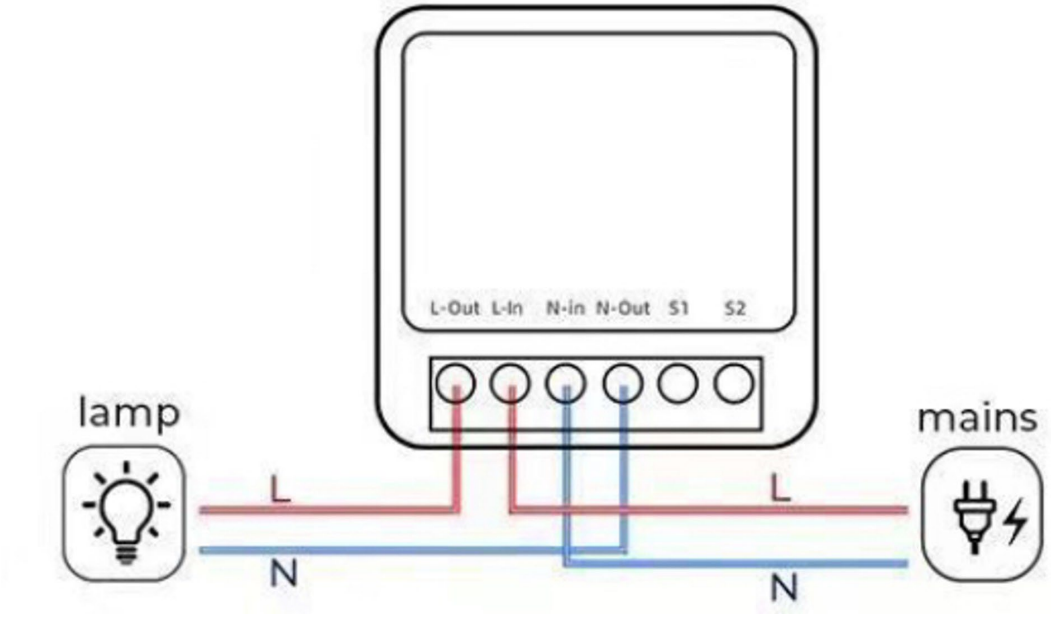
CONNECTING THE RELAYS

The device's relays can control 100-240VAC devices up to 10A

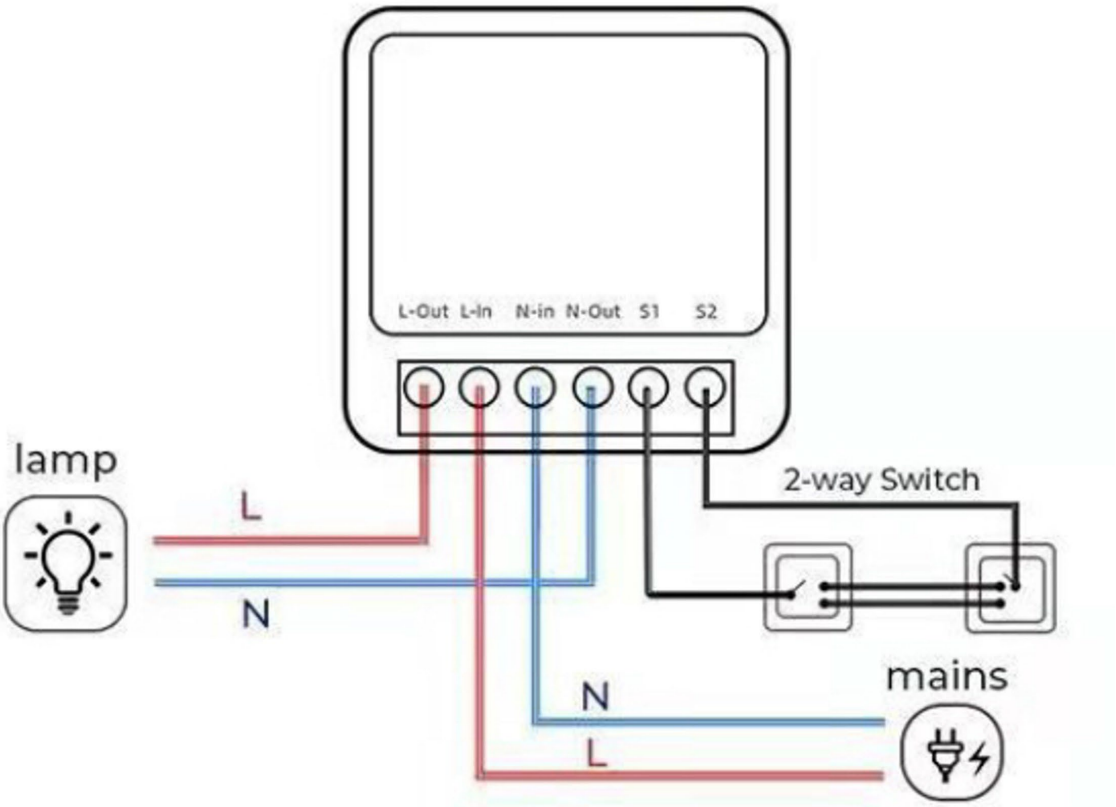


In this diagram, the blue wire is the neutral, the red is the phase. Please respect the phase and neutral in the device wiring. Note that the N-in and N-out terminals are actually pass-through because the interruption occurs only on the phase.

Here is an example of how to operate a lighting device



Here is an example of how to control a lighting device and connect two switches local command



LOCAL CONTROL CONNECTION

These controls are mainly controlled by apps. However, if you want to have a physical control
It is also possible to connect local physical controls by connecting them to the S1/S2 terminals. You can connect a stable ON/OFF switch or 2 diverters, as shown in the diagram above. Impulse buttons are not supported.

INTEGRATED CONTROL

The module has an integrated button which is used to activate/deactivate the relay directly and is used to test its functioning.

RESET

You may need to reset your device to get it back into wifi setup mode and
Connect it to another Wi-Fi network. You can reset the module in several ways:

1 – Press and hold the button on the module for 5 seconds

2 – Plug in and unplug the power 3 times in a row

3 – Open and close the relay 10 consecutive times (this option only if the device is connected to wifi and app)

DM-WFC-2B

DM-WFC-2B is a module with 2 220V switches/buttons that can be controlled remotely via WiFi. It can operate both in stable (ON/OFF) and impulsive mode, with an actuation time programmable. You can use this module to operate 2 electrical appliances in alternating current up to 10A, such as lighting, pumps, irrigation etc. The module has also 1 input to connect any local control buttons. This way you can Operate the device either via the app, via Wi-Fi, or via the local switch.
Given its small size, you can also install the module in the same box where it is mounted the traditional switch.
NOTE: These switches/buttons can only control AC loads with the same voltage supplied to the module (for example 220VAC). If you need a clean contact instead, To control any device or perform different functions, you need a relay board Wi-Fi (see below)

L-in / N –Connect 110..240VAC input power supply
L-out1 / L-out2–Interrupted phase to be connected to the 2 110..240VAC devices to be controlled
S1 / S2–Connect local switches as per diagram

INDICATION LED

There is an internal blue LED with the following functions:

LED on=Relay activated

LED off–Relay deactivated

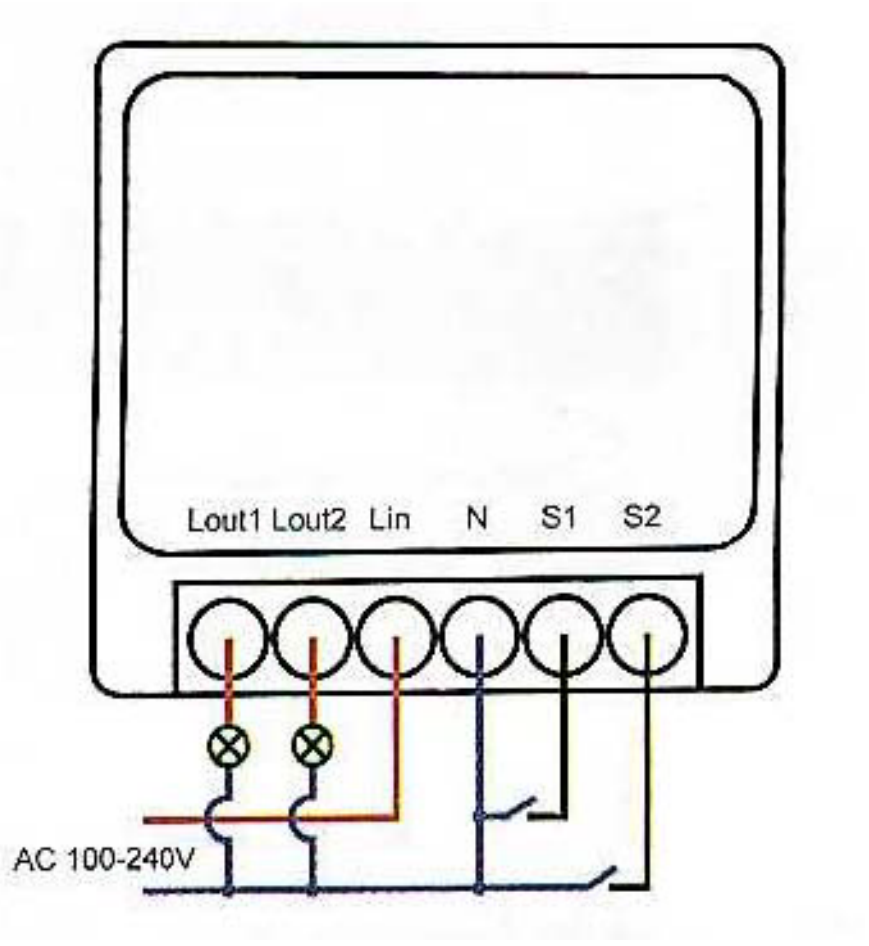
Flashing LED=Waiting for wifi setup

POWER CONNECTION

The product is powered directly from the 100-240VAC network

CONNECTING THE RELAYS

The device's relays can control 100-240VAC devices up to 10A



In this diagram, the blue wire is the neutral, the red is the phase. Please respect the phase and neutral in the device wiring.

LOCAL CONTROL CONNECTION

These commands are mainly controlled from apps. However, if you want to have a command
It is also possible to connect local physical controls by connecting them to the S1/S2 terminals. You can
Connect two stable ON/OFF switches, as shown in the diagram. Impulse buttons do not
are supported.

INTEGRATED CONTROL

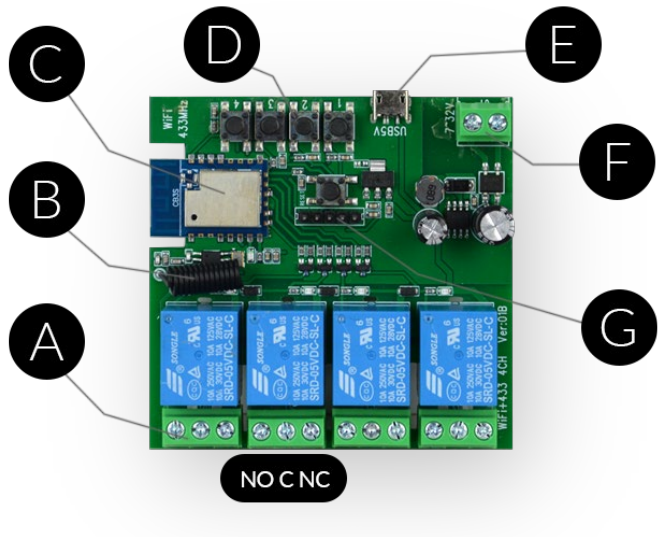
The module has an integrated button which is used to activate/deactivate the relay
directly and is used to test its functioning.

RESET

You may need to reset your device to get it back into wifi setup mode and
Connect it to another Wi-Fi network. You can reset the module in several ways:
1 – Press and hold the button on the module for 5 seconds
2 – Plug in and unplug the power 3 times in a row
3 – Open and close the relay 10 consecutive times (this option only if the device is
connected to wifi and app)

Electrical connection DM-WFC-4R

DM-WFC-4R is an electronic board with 4 NO/NC relays that can be controlled remotely via Wi-Fi. The relays they can operate either in a stable (ON/OFF) or impulsive mode, with an actuation time programmable. You can use this remote control board to operate up to 4 electrical equipment up to 10A, such as lighting, horns, irrigation, etc.
The board also has 4 inputs for connecting any local control buttons.
This way you can operate the device either via the app with wifi or with the local switch. The product also features a 433 MHz RF receiver for radio controls. with coding 1527.



A –Relay for 10A AC/DC

B –RF receiver for 433MHz radio controls, 1527 encoding, currently unused.

C –WiFi 2.4GHz

D –Buttons for direct control of relays

AND -MicroUSB 5VDC power input

F –Power input 7-32 VDC

G –Inputs for local button commands

INDICATION LED

All remote control cards are equipped with

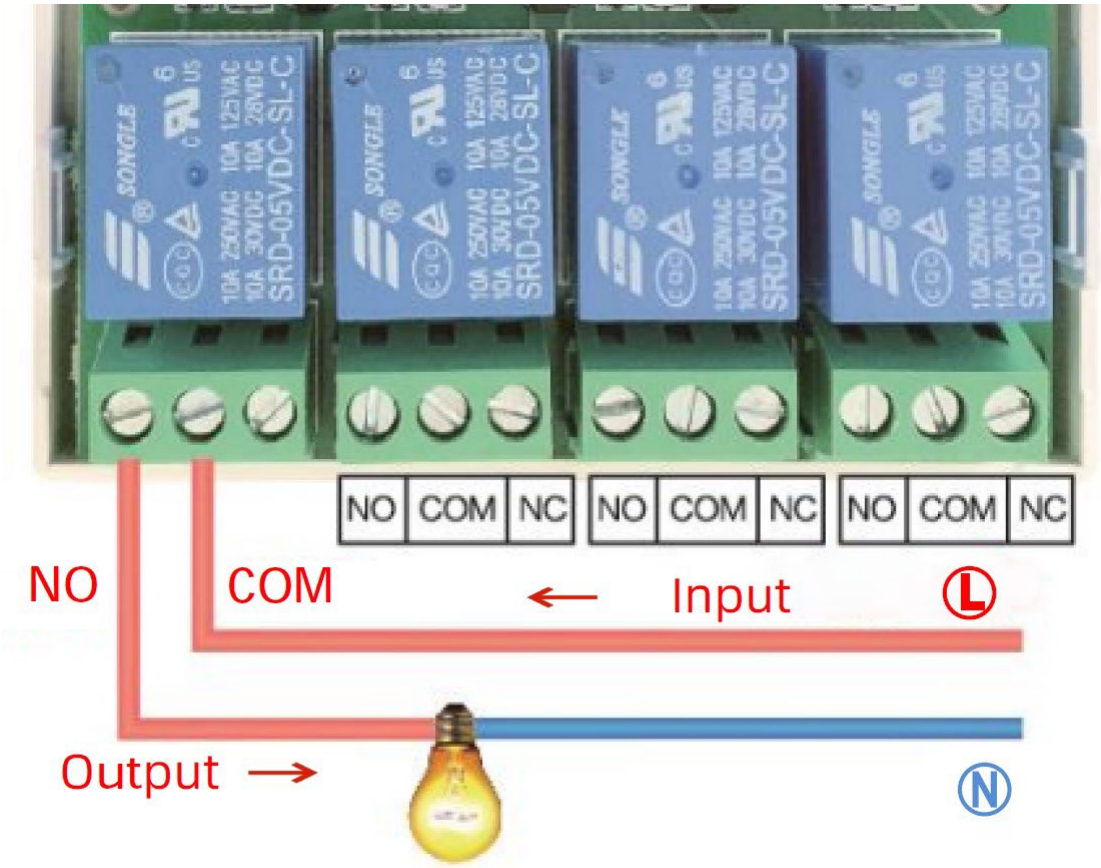
- A blue status LED for each relay that lights up when the relay is activated
- A blue 2.4GHz WiFi status LED. Flashes quickly when the device is waiting for app configuration.

POWER CONNECTION

The product has two power supply alternatives.
You can connect a 5VDC microUSB power supply to the E socket.
Alternatively, you can connect a direct current of 7 to 32VDC to the F terminal block.

CONNECTING THE RELAYS

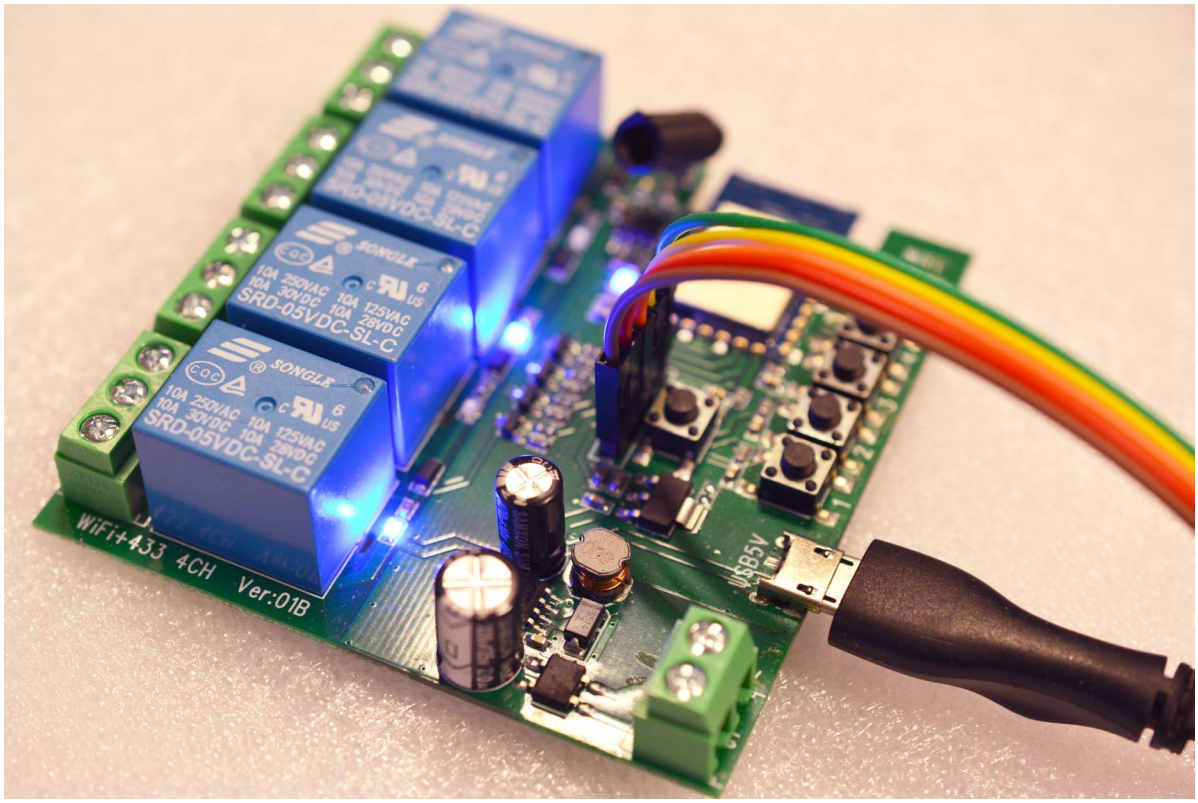
The 4 relays can directly control loads up to 10A with maximum voltage 250VAC or 30VDC. Each relay has 3 terminals: the central one is COMMON, if you use the terminal on the left you will get a normally open NO contact, if you use the one on the right you will get an NC contact, Normally closed. Here's an example of how you can control a current load. alternating with a NO contact, i.e. with the load not powered with the command at rest. Relay operation is configured with the app.



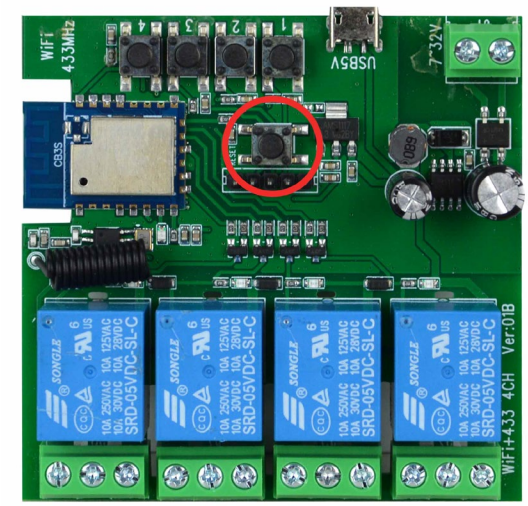
LOCAL BUTTON CONNECTION

1 2 3 4 C

The 4 relays on this board are mainly controlled via app, however it is also possible Connect local physical controls. For this purpose, there are 5 pins in the center of the board. The buttons connect between the common pin C and pins 1.2.3.4
You can connect both buttons and ON/OFF switches to these local inputs. You can define the operation of these local commands through the app (impulse for state change or relay that follows the command status) so as to adapt them to the command you have connected.



RESET BUTTON



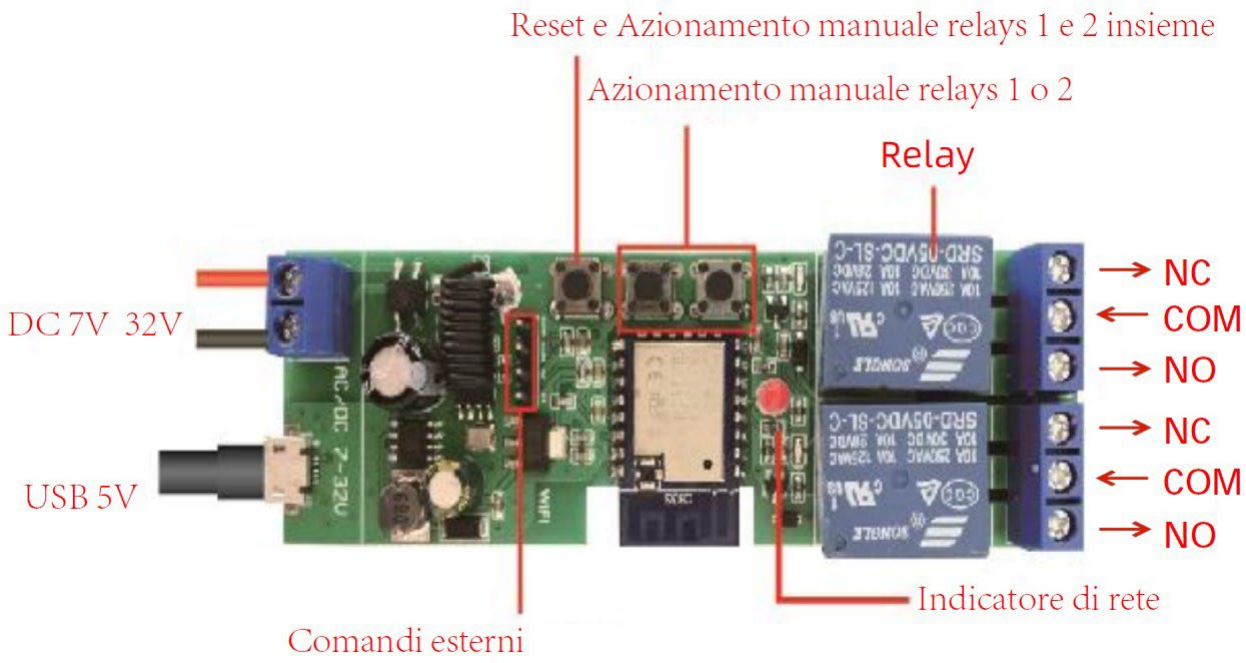
In the center of the board is the reset button. If you hold down the reset button for 5 seconds restore factory settings and the device goes into boot mode app setup with the blue LED flashing quickly.

For this reason the reset button is also used for the first installation, to bring the remote control in setup mode.

If you have already paired your device with the app and you reset it, you will first need to delete the device in the app then pair it again.

Electrical connection DM-WFC-2R

DM-WFC-2R is an electronic board with 2 NO/NC relays that can be controlled remotely via Wi-Fi. The relays they can operate either in a stable (ON/OFF) or impulsive mode, with an actuation time programmable. You can use this remote control board to operate up to 2 electrical equipment up to 10A, such as lighting, horns, irrigation, etc.
The board also has 2 inputs for connecting any local control buttons.
This way you can operate the device either via the app with wifi or with the local switch. The product also features a 433 MHz RF receiver for radio controls. with coding 1527.



RELAY –Relay for 10A AC/DC NO/NC
NETWORK INDICATOR –2.4GHz WiFi status blue LED. Flashes quickly when the device and waiting for app setup.
MANUAL OPERATION –Buttons for direct control of relays 1 and 2 or 1 and 2 Together
RESET–Press 5 seconds to reset
USB 5V –MicroUSB 5VDC power input

DC 7V 32V –Power input 7-32 VDC

EXTERNAL CONTROLS –Inputs for controlling relays with external buttons

POWER CONNECTION

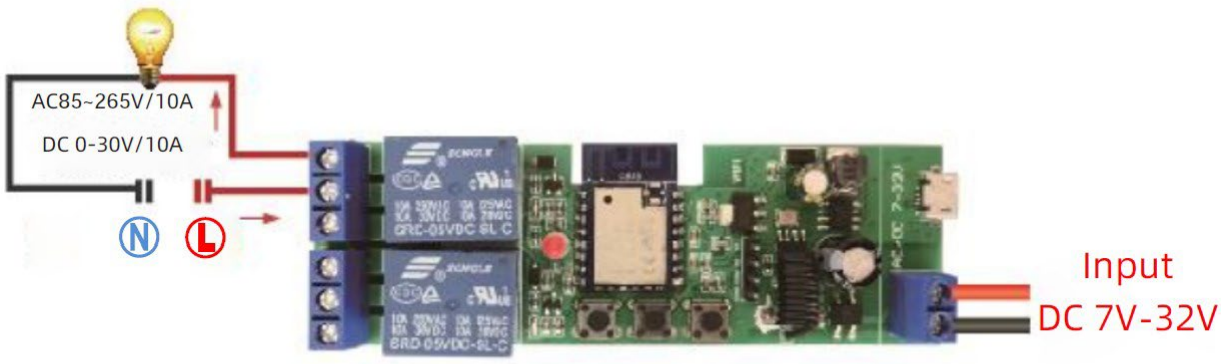
The product has two power supply alternatives.

You can connect a power supply with a 5VDC microUSB socket or alternatively you can connect a direct current of 7 to 32VDC to terminal block F

CONNECTING THE RELAYS

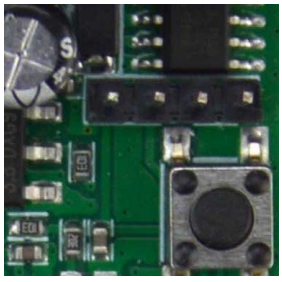
Like the previous model, this board also has relays that can control directly loads up to 10A with maximum voltage 250VAC or 30VDC. Each relay has 3 terminals: the central one is COMMON, if you use the terminal on the left you will get a NO contact normally open, if you use the one on the right you will get a NC contact, normally closed.

Here is an example of how you can control an AC load with a NO contact, that is, with the load not powered and the command at rest. The relay operation is configured with the app.



LOCAL BUTTON CONNECTION

1 2 CC



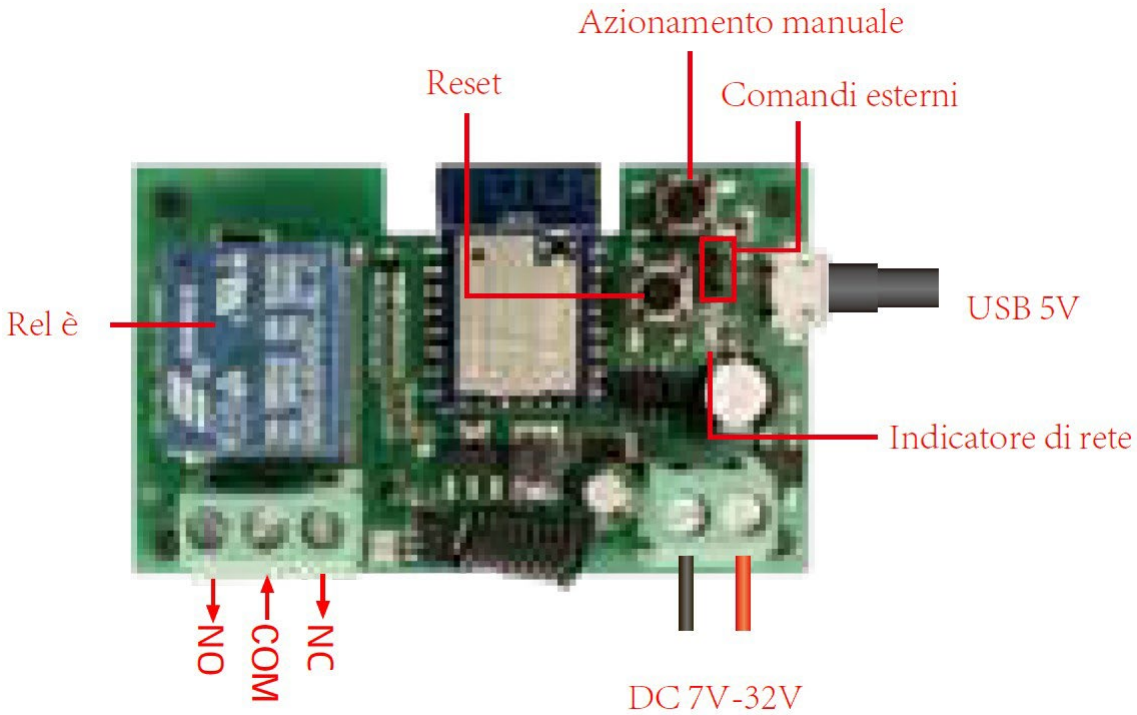
The 2 relays on this board are mainly controlled via app, however it is also possible
Connect local physical controls. For this purpose, there are 4 pins in the center of the board.
The buttons connect between the common pin C and pins 1 and 2
You can connect both buttons and ON/OFF switches to these local inputs. You can
define the operation of these local commands through the app (impulse for state change
or relay that follows the command status) so as to adapt them to the command you have
connected.

RESET BUTTON

There's a reset button on the board. If you hold down the reset button for 5 seconds,
factory reset and the device goes into app setup mode
with the blue LED flashing quickly.
For this reason the reset button is also used for the first installation, to bring the
remote control in setup mode.
If you have already paired your device with the app and you reset it, you will first need to delete the
device in the app then pair it again.

Electrical connection DM-WFC-1R

DM-WFC-1R is an electronic board with 1 NO/NC relay that can be controlled remotely via Wi-Fi. The relay It can operate either in a stable (ON/OFF) or impulsive mode, with an operating time programmable. You can use this remote control board to operate a device electrical up to 10A, such as lighting, acoustic signals, irrigation etc. The card It also has inputs for connecting any local control buttons. In this way You can operate the device either via the app, via Wi-Fi, or via a local switch.
The product also features a 433 MHz RF receiver for radio controls with 1527 encoding.



RELAY –Relay for 10A AC/DC NO/NC
NETWORK INDICATOR –2.4GHz WiFi status blue LED. Flashes quickly when the device and waiting for app setup.
MANUAL OPERATION –Buttons for direct control of relays
RESET–Press 5 seconds to reset
USB 5V –MicroUSB 5VDC power input

DC 7V 32V –Power input 7-32 VDC

EXTERNAL CONTROLS –Inputs for controlling relays with external buttons

POWER CONNECTION

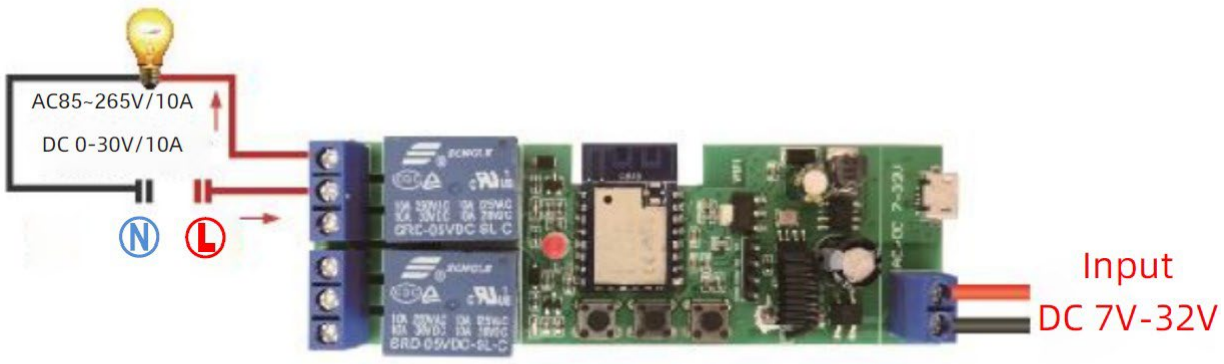
The product has two power supply alternatives.

You can connect a power supply with a 5VDC microUSB socket or alternatively you can connect a direct current of 7 to 32VDC to terminal block F

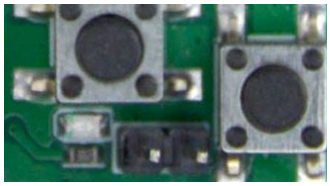
CONNECTING THE RELAYS

Like the previous model, this board also has relays that can control directly loads up to 10A with maximum voltage 250VAC or 30VDC. Each relay has 3 terminals: the central one is COMMON, if you use the terminal on the left you will get a NO contact normally open, if you use the one on the right you will get a NC contact, normally closed.

Here is an example of how you can control an AC load with a NO contact, that is, with the load not powered and the command at rest. The relay operation is configured with the app.



LOCAL BUTTON CONNECTION



The relay of this board is mainly controlled via app, however it is also possible to connect local physical controls. To do this, two pins are available in the center of the board. The button

external connects between the two pins

You can connect both buttons and ON/OFF switches to these local inputs. You can define the operation of these local commands through the app (impulse for state change or relay that follows the command status) so as to adapt them to the command you have connected.

RESET BUTTON

There's a reset button on the board. If you hold down the reset button for 5 seconds, factory reset and the device goes into app setup mode
with the blue LED flashing quickly.
For this reason the reset button is also used for the first installation, to bring the remote control in setup mode.
If you have already paired your device with the app and you reset it, you will first need to delete the device in the app then pair it again.

Positioning

When choosing the installation location of the product, pay attention to these precautions

CHECK WIFI COVERAGE

Before placing the remote control in its final location, remember that this
The device must connect to your Wi-Fi network in order to work. You should therefore check
with the cell phone that there is good coverage of your Wi-Fi network in the place where you want to place it.
If you see that the signal is very poor, you should intervene on your Wi-Fi network, strengthening it maybe with a repeater.
Do not install the product in an area with poor Wi-Fi signal because it would then be unreliable in its operation.

NO METAL CONTAINERS

Be careful not to put the remote control card in a metal container because
This would shield the Wi-Fi signal. You can instead close the lid without any problems.
plastic of the junction box because it does not provide significant shielding.

Download the Smart Life app

To use the product with your mobile phone, you must first connect the device to your Wi-Fi network. To do this you need the APP**Smart Life**which you can download for free from Google Play or Apple Store. It's a very popular app in home automation that's common to all our devices.

home automation.

When you first start, you must create an account by entering a valid email address. Press CREATE AN NEW ACCOUNT and then wait for the code via email to confirm your registration.
If you don't have an email address you can also use your phone number by pressing Use Phone Number and get the verification code via SMS

Once you have created your account you will have your own space in the cloud where you can also upload many WiFi remote controls to control different devices and also our other equipment home automation, such as cameras and intercoms.

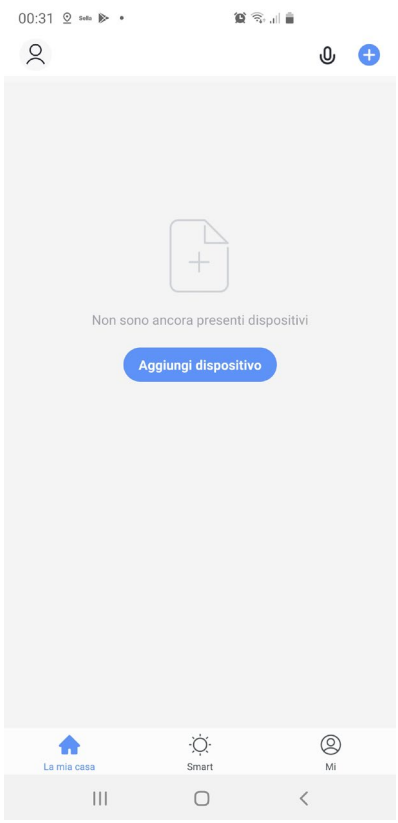
Set up the remote control

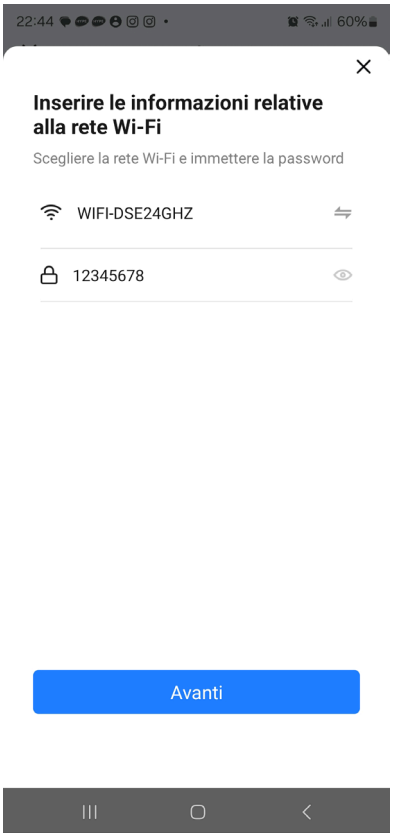
To use the remote control with your mobile phone you must first connect the device to your network Wi-Fi. It's very easy to do, thanks to the app you just downloaded.
Note that the electronic board contains:
1 RESET button
1 BLUE wifi status LED
Locate them using the indications given in the previous chapter, because you will need them in these operations

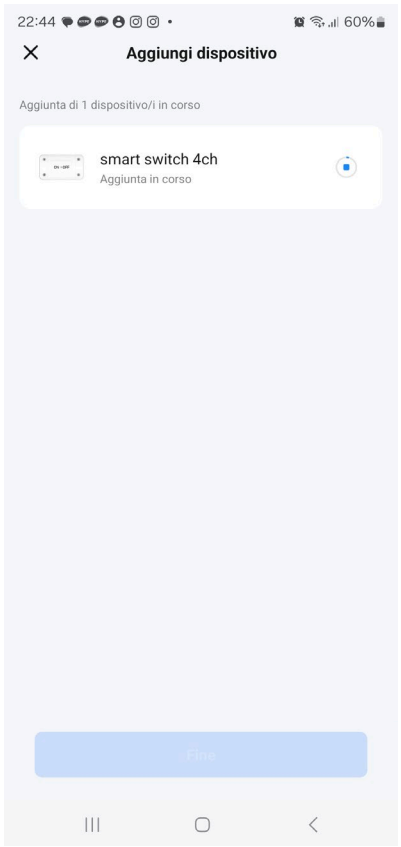
1 –**Connect your phone to your WiFi network**to which you want to connect the remote control. Check in your phone's wifi networks to be connected to your wifi network and to be able to surf on Internet. Warning: It must be a 2.4 GHz network because the device does not accept Wi-Fi at 5GHz. Also make sure you have Bluetooth enabled.

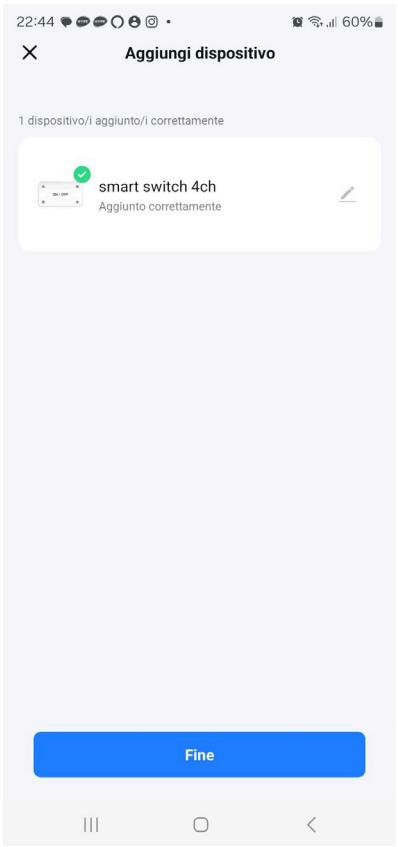
2 –**Put the remote control module into setup mode**. So that you can
To add your device to the app, it must be in setup mode.
device is in setup mode when theBlue wifi LED on device flashes
quickly Normally, the new appliance, once powered, is already in
setup mode, with the blue LED flashing. If you see the blue LED solid, or off,
You can put the device into setup mode by holding down the RESET button for 5 seconds.
seconds.

3 –**Add device**. Press the + button at the top right of the app and then choose
ADD DEVICE. If the remote is in setup mode, with the blue LED
flashing, the automatic search will locate the new device to be configured. Press the
ADD button and then, in the following window, choose your 2.4GHz wifi network to connect to the device by entering the correct password. The connection of the device will start
It finishes in a short time. Once the device is connected to the Smartlife app, the blue LED
on the card stops flashing
If your device is not detected by the app when searching the network, reset your device
pressing the reset button on your device for 5 seconds and check that you have Bluetooth
active on the cell phone.







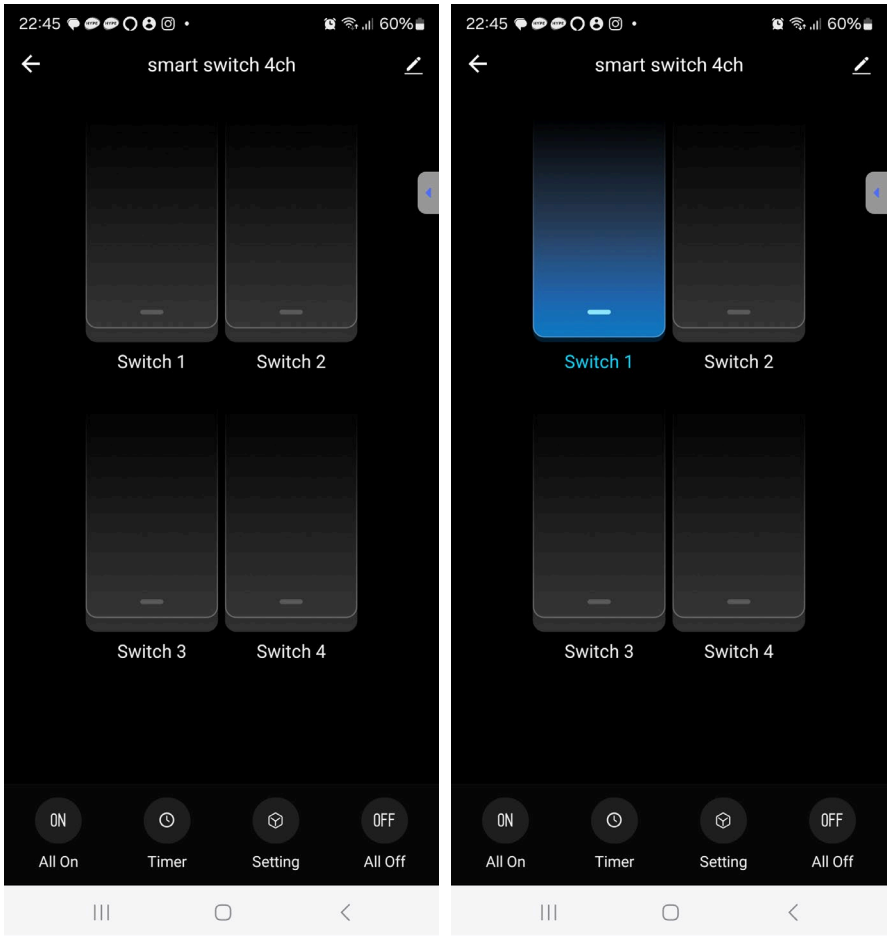


The device is now connected to the Wi-Fi network. If the Wi-Fi connection is lost, the

device will automatically activate the Bluetooth connection.

Control relays from the app

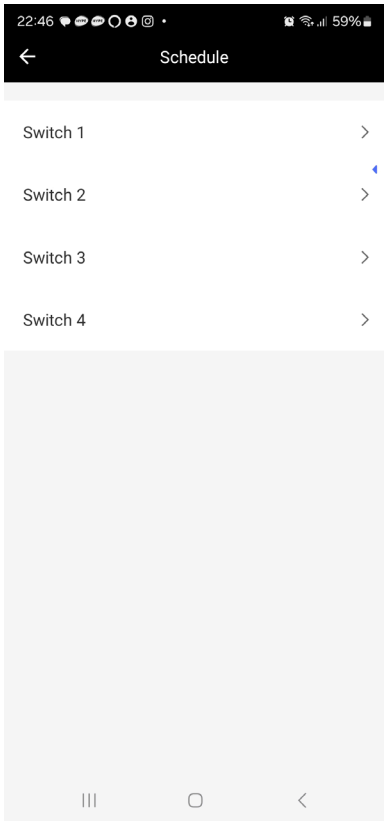
Now that you've set up your device, you can control it with the app. Thanks to the P2P cloud server, You can also check it through the Internet.
The app images shown below may vary significantly depending on the model purchased.



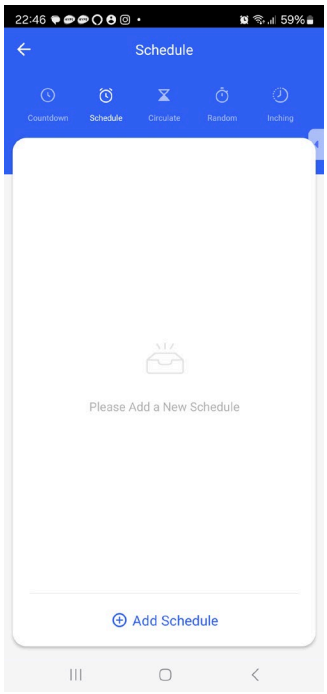
ON/OFF–The remote control relays are controlled simply by pressing the corresponding buttons. The button icon turns blue when the remote control has been activated (contact open or closed depending on which clamp you used). The color of the button is a time memory real relay status so that, every time you open the app, you can immediately see the situation in which the relays are located at that time.
RENAME BUTTONS–You can assign a custom name for each relay by holding holding the button for 3 seconds and editing the name.
ALL ON/ALL OFF–With these two buttons you activate and deactivate all the relays simultaneously.

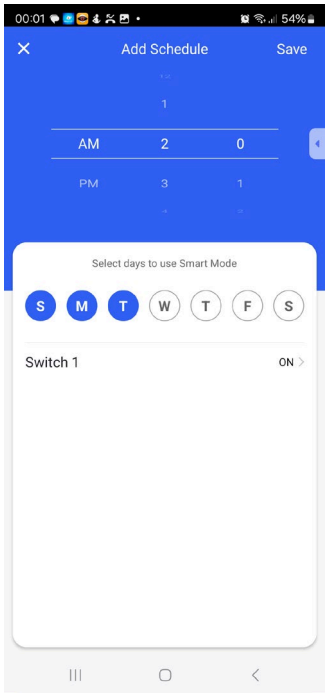
Timer

The TIMER button allows you to configure different types of relay timing.
Remember that if you connect the remote control to voice systems, such as Alexa, you can also set timed triggers within the voice platform. The timings you set in
Smartlife or those of the voice command platform can also coexist, but you must program them so that they do not conflict.
Each relay can have its own specific timings so first you will choose the switch to be scheduled

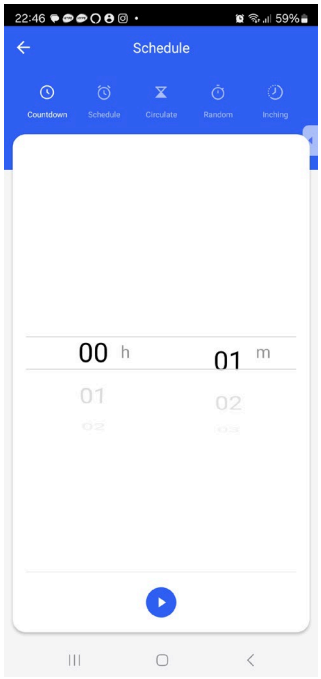


SCHEDULE–You can add automatic activations (ON) and deactivations (OFF) to Run on certain days each week. Press the ADD SCHEDULE button, then choose the time. of the operation and on which days of the week to perform it. Press SAVE to add the event automatic to the list.

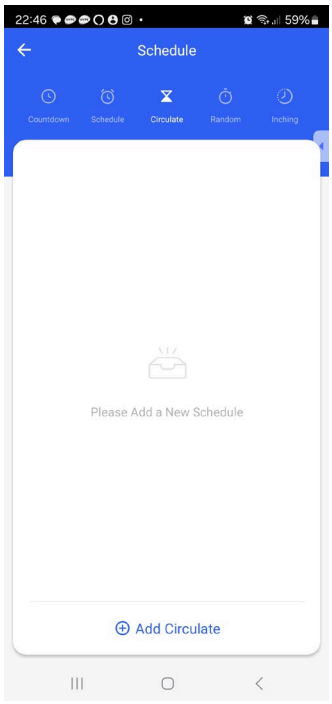


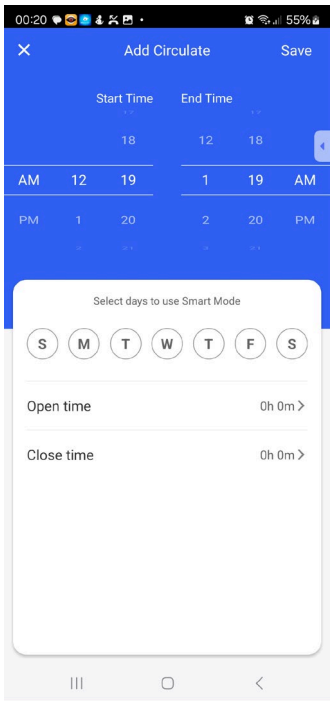


COUNTDOWN–You can start a countdown that will change state when the timer expires to the device. The countdown is a manual function that is currently active.

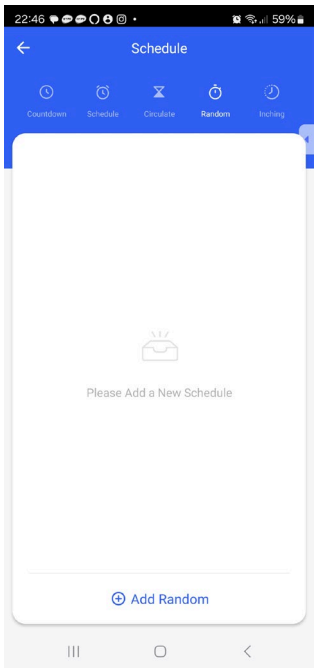


CIRCULATE–You can set activation and subsequent deactivation cycles by creating ON ALL HOURS X / OFF AT HOURS Y programming that will repeat every week on the days that You want. This is the typical function used to automate irrigation, lighting, and pool pumps. etc.

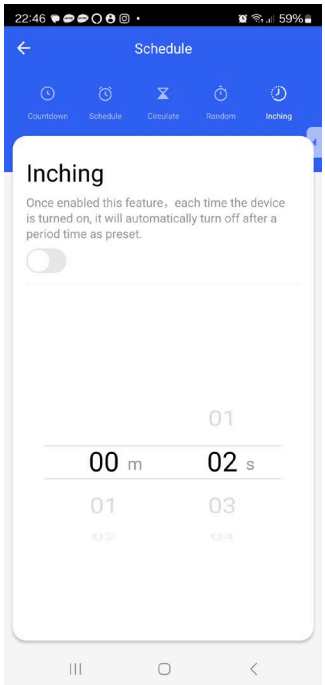




RANDOM–This function is very particular and is used to activate the relays randomly, within certain time slots. This feature is mainly used to make it appear as if being at home when you are actually away, turning on lights or other devices in a way random.
You can set time slots and days of the week. Within the set time slots, Smartlife will turn the switch on and off randomly.

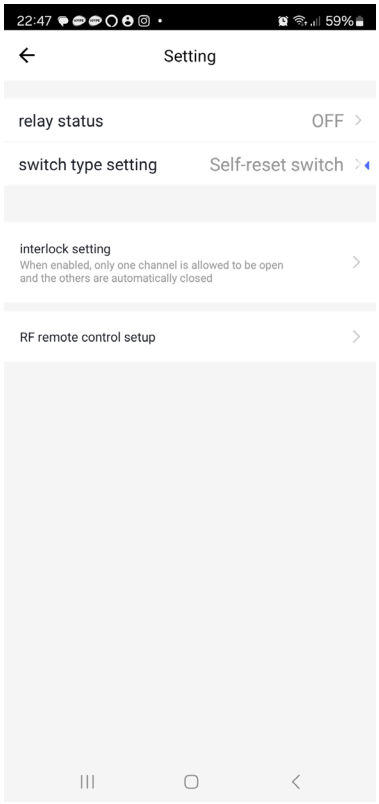


INCHING–By setting a time in this section the relay that is activated will deactivate automatically after the set time. You can also use this function to make the relays in impulsive mode, with short actuations of 1 or 2 seconds which are required, for example, to control the electric locks.



Setting

The setting button contains general settings that affect all relays



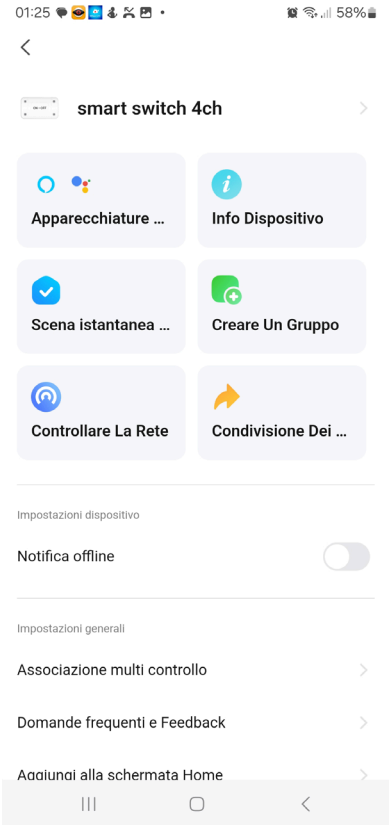
RELAY STATUS–Here you can set the state that the relays should acquire when the device starts, after a power failure occurs. You can choose ON, OFF or MEMORY which means restore the active state before the network failure.

SWITCH TYPE SETTING–Here you can set the electrical operation of the relays when are activated by local commands or buttons on the board. This option does not affect the Relay control via app. If you choose ROCKER SWITCH the relays act impulsively and They activate only for the time the local button is held down. If you choose SELF RESET The reset changes ON/OFF OFF/ON state each time the local button is pressed and released.

INTERLOCK SETTING–You can select 2, 3 or 4 relays in this section. The selected relays do not can be activated simultaneously. For example, if you activate relay 1 interlocked with relay 2, the 2 will automatically deactivate.

Advanced options

From the relay control page you can access some advanced options by pressing the icon edit (pencil) top right



VOICE COMMAND EQUIPMENT

You can connect your remote control with other voice control devices.

The remote control is compatible with the most common voice control devices such as Amazon Echo (ALEXA) and Google Assistant. So you can also control the relay by giving voice commands.

amazon alexa

Google Assistant

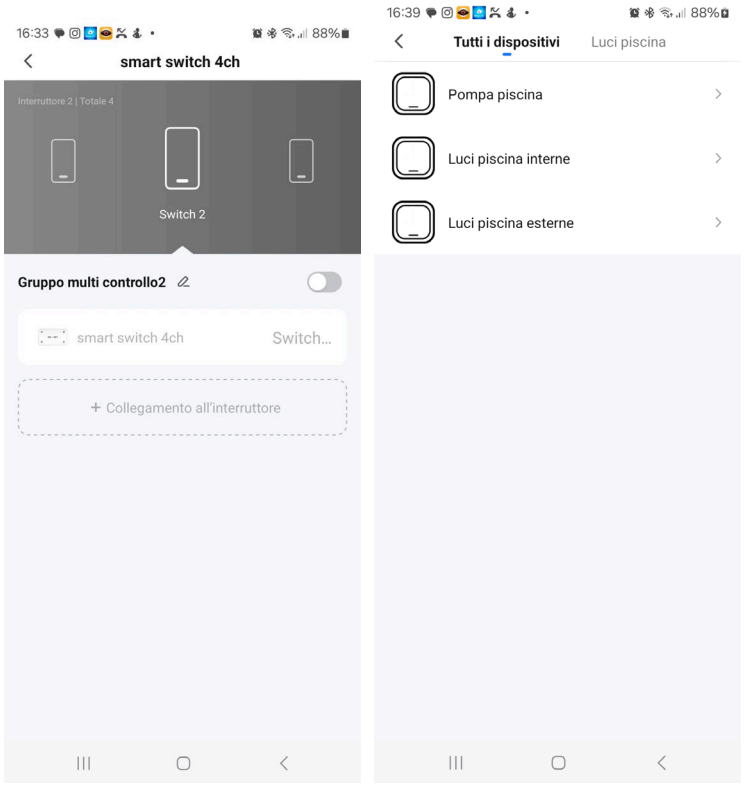
OFFLINE NOTIFICATION

You can enable this feature to receive a notification when your device is unreachable.

for 30 minutes due to, for example, a problem with your Internet line or due to a power failure.

MULTI-CONTROL ASSOCIATION

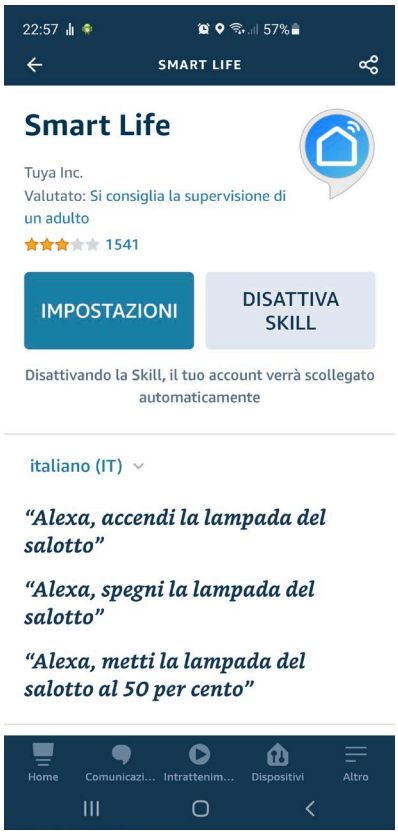
If you have connected our other controls and switches to Smartlife, you can make sure that when Pressing one of the 4 control buttons on this device will automatically activate as well. other devices in your Smartlife account. This way you can combine different activations of your home to a single command. Below for example we are connecting other switches to the switch 2.



Amazon Alexa Integration

Smart Life integrates seamlessly with Amazon Alexa.

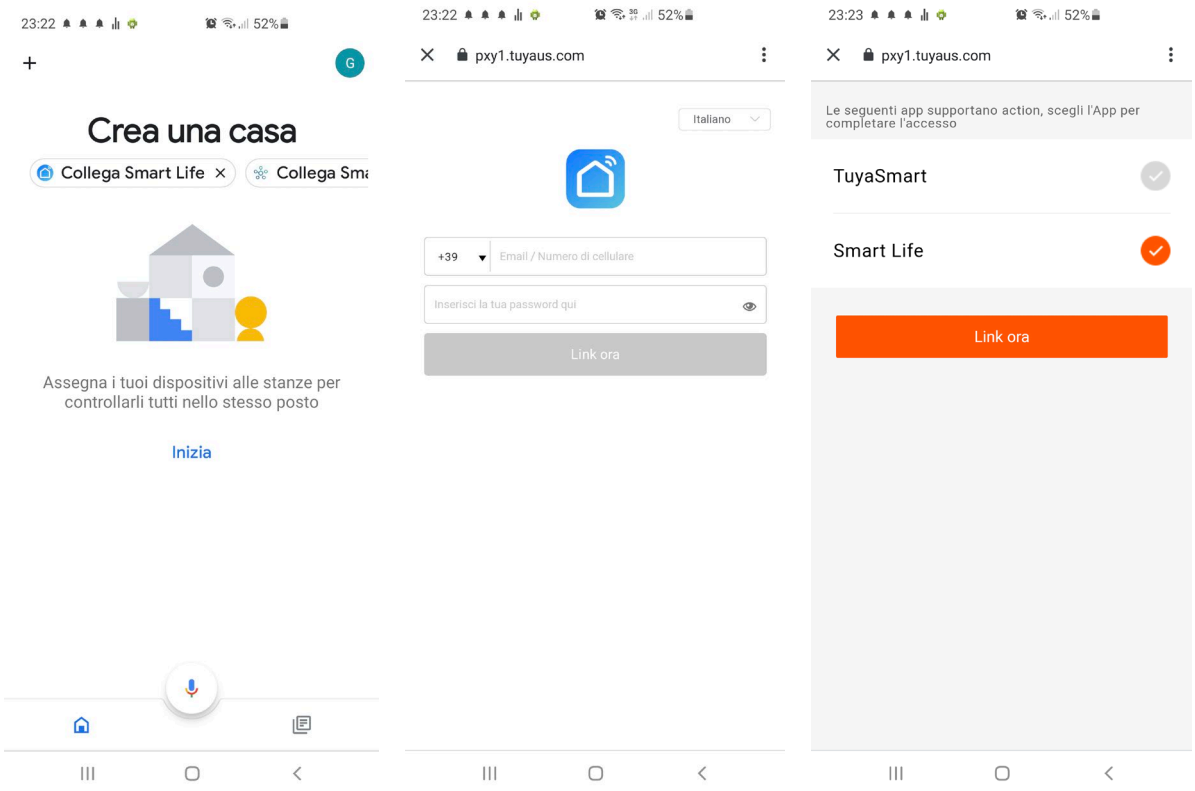
Just download the**SMART LIFE skill**using the Amazon Alexa app to connect Alexa to your Smart Life account. Using the Smart Life skill, you can control all our DM Series devices. with Alexa voice commands.



Google Home Integration

Smart Life integrates seamlessly with Google Home

You need to download Google Home and connect Smart Life by entering your account credentials.



Samsung Integration SmartThings

Smart Life also integrates with Samsung's SmartThings home automation app

You need to connect Smart Life to SmartThings by entering your account credentials.