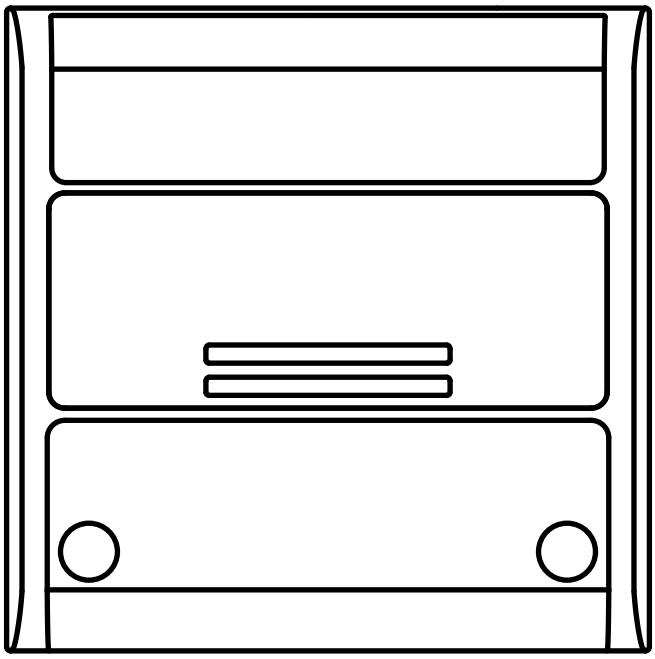
# **PLANO**-LOCK-ONE



ANDROID APP ON Google play

Download on the App Store

OneSmart

**Electronic interface unit for devices with dry contact inputs (e.g. sectional doors or automated gates).**
**Power supply 12-32Vdc or 12-24Vac, Output contacts: 1A 30Vdc.**
**Integrated 433.92MHz radio receiver for remote controls.**
**WiFi connection for OneSmart App.**

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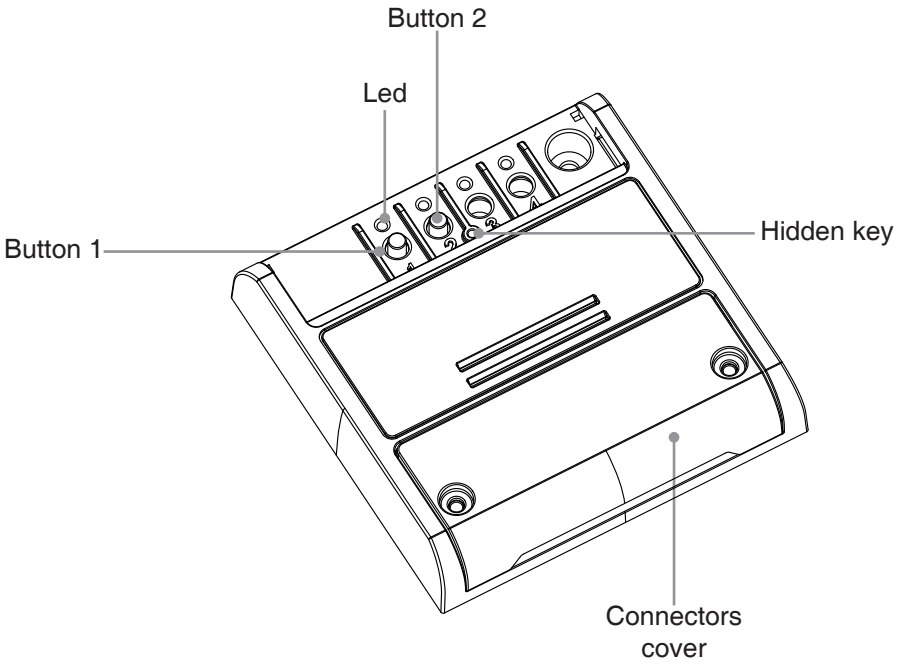
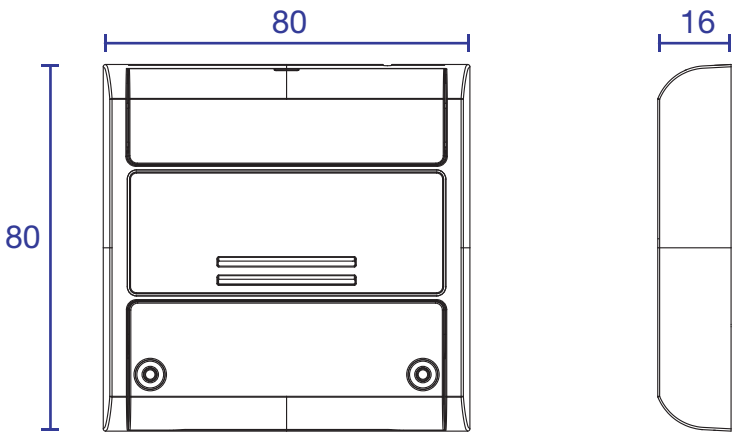
# 1 - PRODUCT FEATURES

## 1.1 TECHNICAL DATA

| | |
|---|---|
| Power supply | 12-32 Vdc or 12-24Vac |
| Output | One NO contact (1A 30Vdc) for start function<br>One NC contact (1A 30Vdc) for stop function |
| Status signaling inputs | 1 input for open automation signaling dry contacts,<br>1 input for close automation signaling dry contacts |
| N° of programmable transmitters | 30 |
| RF receiver frequency | 433.920MHz |
| WiFi frequency | 2.4GHz |
| Protection rating | IP20 |
| Working temperature | -20° +55° |
| Box dimensions | 80 X 80 h16 mm |



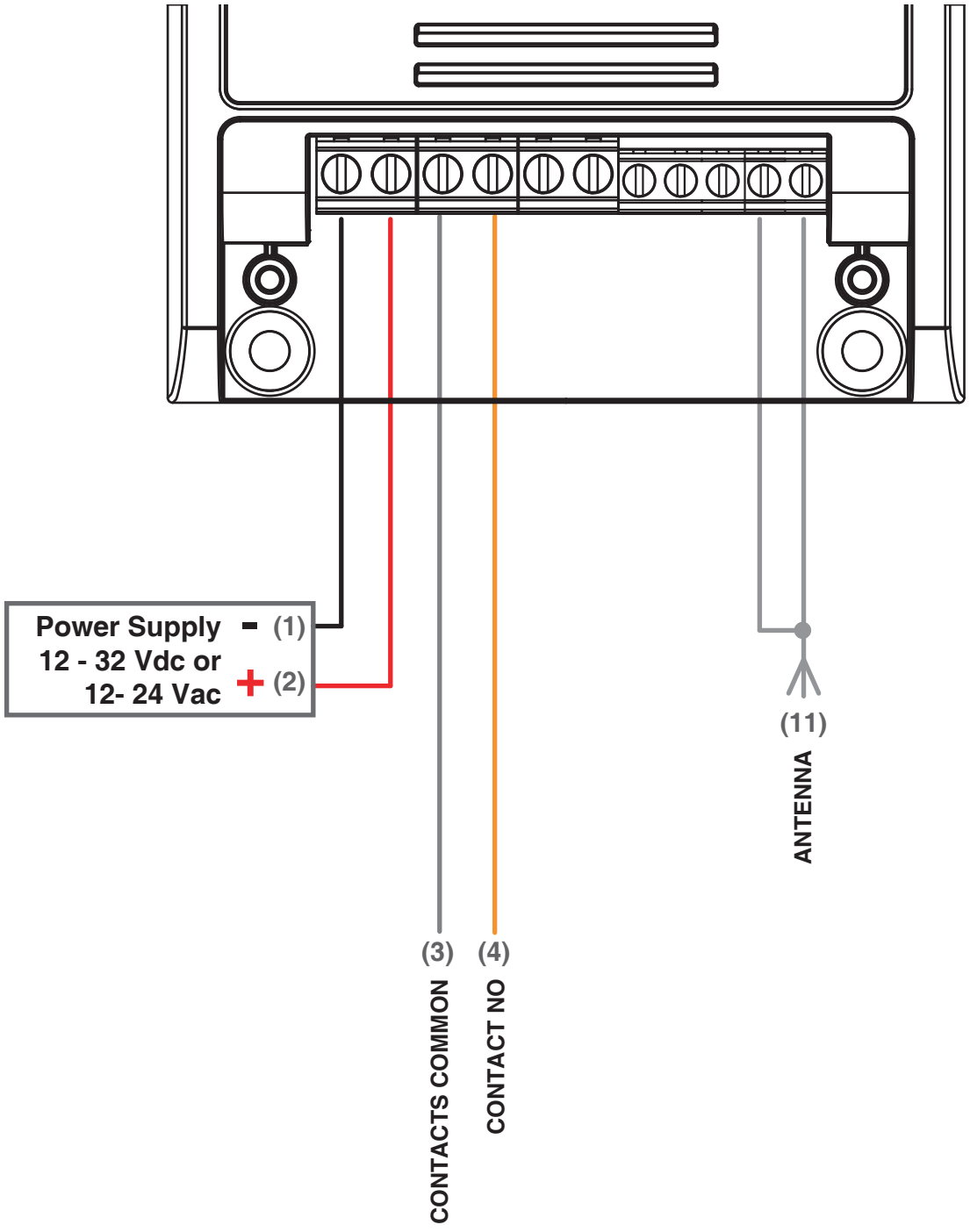
## 2 - CONNECTION DIAGRAMS

**RECOMMENDATIONS**

- Installation must be carried out only by professional technicians in accordance with the applicable electrical and safety regulations.
- All connections shall be operated without electrical voltage.
- Use proper cables.
- Don't cut the antenna
- Provide in the power line twith an appropriate disconnection device
- Dispose of waste materials in full compliance with local law.
- Do not exceed the specified load limits and use correctly protected power supplies.

### 2.1 CONNECT THE START CONTACT

Start contact must be connected to the "start contact" of the automation control unit.




**WARNING:**

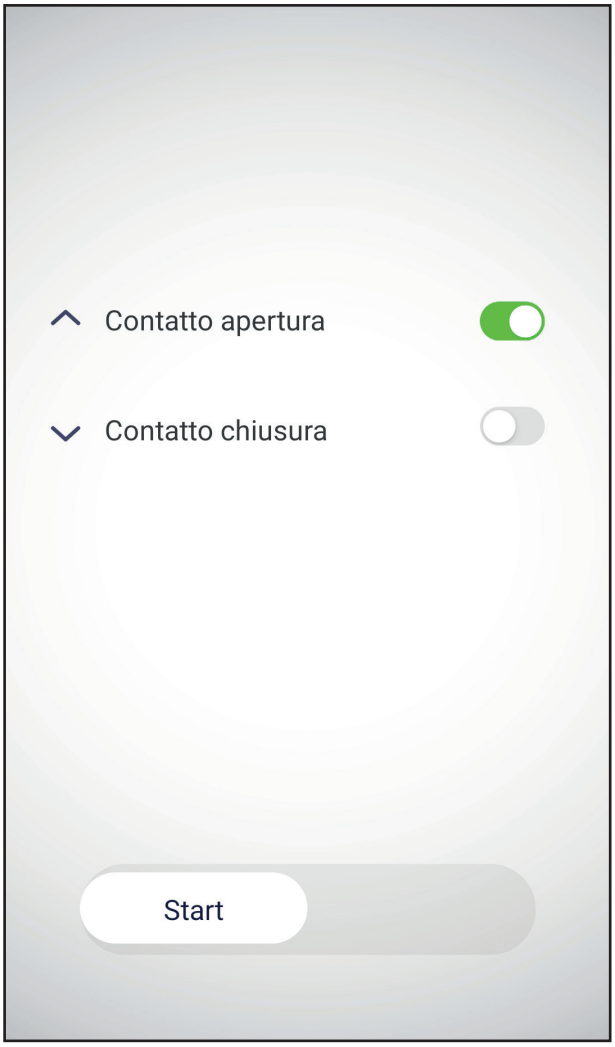
- The effect of the START command (open, close, open/stop/close) depends on the automation control unit settings
- Contact must be free of voltage

## 3 - USE OF THE CONTROL UNIT

### 3.1 USE VIA WIRE
The start contact of the control unit is connected in parallel to any wire commands (e.g. buttons or key selectors) directly to the automation control unit.

### 3.2 USE VIA RADIO
To control the automation via radio you must have compatible transmitters and therefore must carry out the association procedure, see paragraph 4.

### 3.3 USE VIA SMARTPHONE APP ONESMART
The configuration procedures described in paragraph 5 above must be followed to control the lights by smartphone App.




### 3.4 USE WITH VOICE CONTROL
The configuration procedures described in paragraph 6 above must be followed to control the lights by voice commands.

## 4 - MANAGEMENT WITH REMOTE CONTROL

This procedure lets you programme/delete compatible 433.92MHz transmitters.

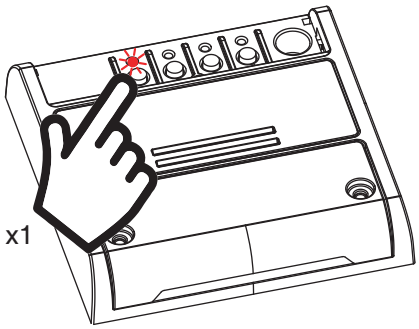
**Multifunctional transmitters, codes:**
With multifunctional transmitters the transmitter control modes depend on the model used.

**Generic (wireless bus) transmitters, codes:**
The functions of the generic transmitters is “start of the automation”.

### 4.1 - RADIO PROGRAMMING

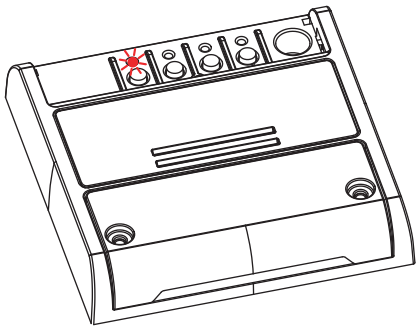
This procedure lets you programme compatible multifunctional or generic transmitters.

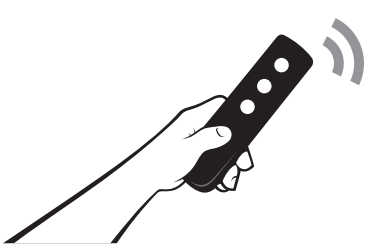
**STEP 1**
Press the button 1.
The led turns on red.




**ACTION:** Short press of button 1 **LED:** Turns on red

**STEP 2**
Within 60 seconds make a transmission with the transmitter to be saved.
See transmitter manual, the paragraph entitled “transmitter programming” for specify information.
The led makes 3 Flashes and turns off.





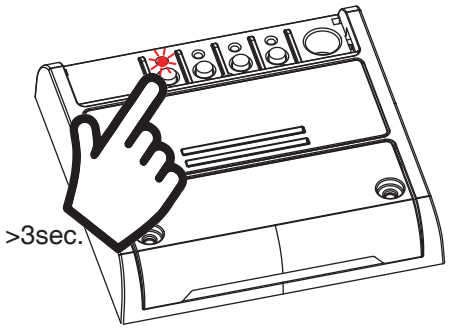
**ACTION:** Make a transmission with the transmitter **LED:** Flashes 3 times

## 4.2 - DELETION OF REMOTE CONTROL

These procedures let you delete from the memory transmitters that have already been programmed.

**STEP 1**

Hold the receiver button 1 down (about 5 seconds.) until the LED begins to Flash.

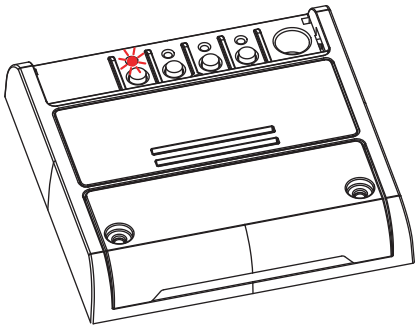


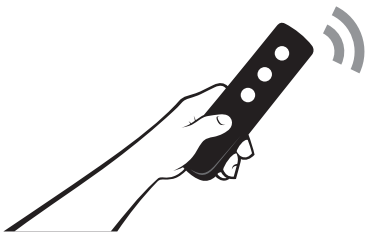

**ACTION:** Hold tbutton 1 down **LED:** Flashes red

**DELETION OF SINGLE TRANSMITTER**

**STEP 2a**

Within 10 seconds make a transmission with the transmitter that you want to delete.
The LED flashes quickly and turns off.



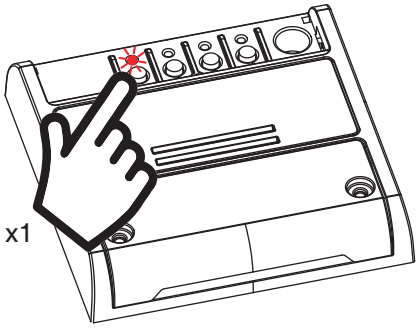


**ACTION:** Make a transmission with the transmitter
**LED:** Flashing quickly and turns off

**DELETION OF ALL TRANSMITTER SAVED**

**STEP 2B**

Within 10 seconds press the button 1 on the receiver for a short time to confirm the delection of all transmitters.
The LED starts flashing quickly and turns off.




**ACTION:** Short press of button 1
**LED:** Flashing quickly and turns off

## 5 - CONTROL WITH APP ONE SMART

These procedures allow you to manage the light from your device (example: mobile phone) through the application and to control the system remotely.

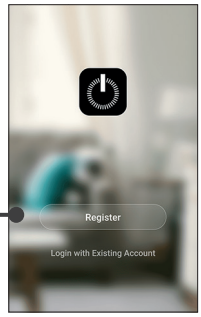
### 5.1 - APP CONNECTION

This procedure connects the control unit Plano-One to the application. It shall be repeated for each control unit on the installation.
ATTENTION: an internet-based wi-fi network is required for te operation.

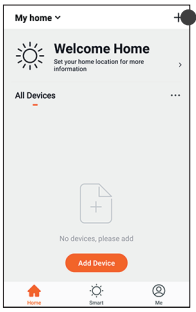
1. Download the App OneSmart on the phone

OneSmart

2. After starting the application, you will need to create an account. Complete the procedure.

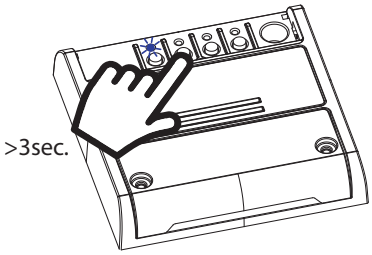



3. Press the "Add Devices" icon



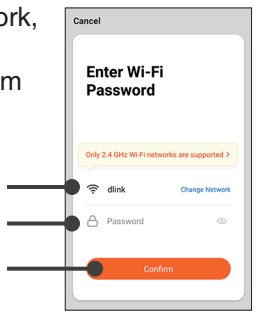

4. Select the category "Smart Devices"

5. Press the button 2 on the control unit until the blue led is turned on, then release the button. After a few seconds the led and the load will start to flash




6. Press "Connect" on the App

7. On the application, select the wi-fi network, insert the network password and confirm




8. The device will be now automatically configured. The blue led on the control unit indicates the progress of the setting:
Series of one Flash = the power station is ready for setup,
Series of two Flashes = power station is trying to connect to the WiFi network,
Series of 4 Flashes = the power station connected correctly.
The LED will die after two minutes.

**FOR WIFI CONNECTION ISSUES CHECK OUT PG. 23**

## 6 - CONTROL BY VOICE COMMANDS

You can use this procedure to associate a “OneSmart” account with a Google or Alexa account to enable the voice commands.

### 6.1 - CONNECTION TO “GOOGLE HOME”

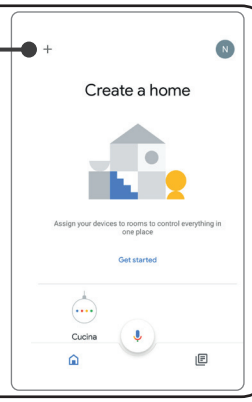
**PROCEDURE**

WARNING: before proceeding with this procedure, you must have set up the “OneSmart” account, see paragraph 6.

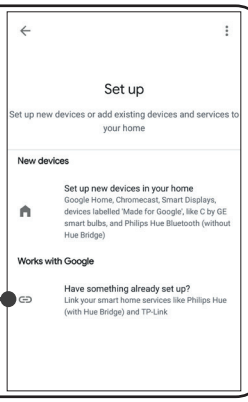
1. Download the App “Google Home”

2. After starting the application, you will need to create an account Google.
Complete the procedure.

3. Press the “+” icon in top left position, then press “Set up device”.




4. Select “Have something already set up?” and then select “Smart Life” from the list of proposed accounts.
Insert the account data “OneSmart” created in paragraph 6.




5. Once the procedure has been completed, all devices connected to the “Smart Life” account will appear in the home page of Google application (at the bottom of the home under the “Other cast device”).

6. Now the voice commands can control the control unit

NOTES:
If you add other devices to your OneSmart application, they will automatically be added to the Google Home page.
To use them with voice control, you need to add them to a room in the Google Home application, see step 6 of the procedure.
If devices are not added automatically, disconnect and reconnect your account from step 3 of this procedure from Google Home.

## 6.2 - COONECTION TO “AMAZON ALEXA”

**PROCEDURE**

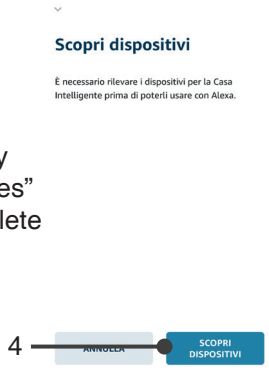
WARNING: before proceeding with this procedure, you must have set up the “OneSmart” account, see paragraph 6.

1. Download the App “Amazon Alexa”

2. After starting the application, you will need to create an account Amazon.
Complete the procedure.

3. From the application home page press “menu” (1) then “Skill and games” (2).
Press on the “Magnifying glass” at the top right and then search for “Smart Life” (3).Follow the procedure to enable use of the “OneSmart” account created using paragraph 6

4. Complete the procedure by entering the “OneSmart” account data created in paragraph 6. You can then start searching for devices by pressing the “Discover devices” button (4). If you want, complete the setting-up procedure by inserting the device into a room.

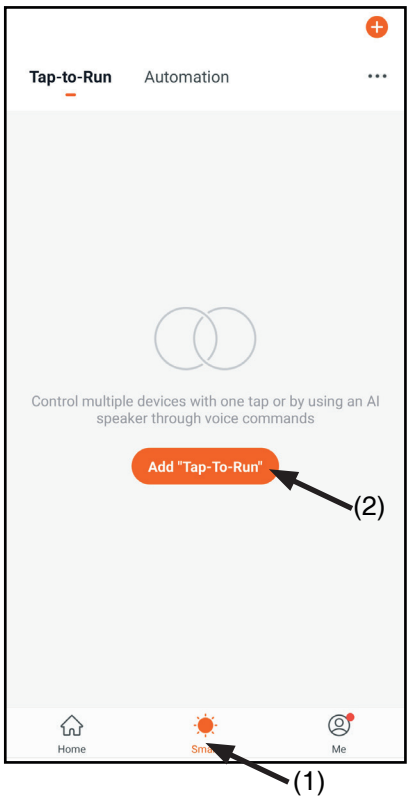


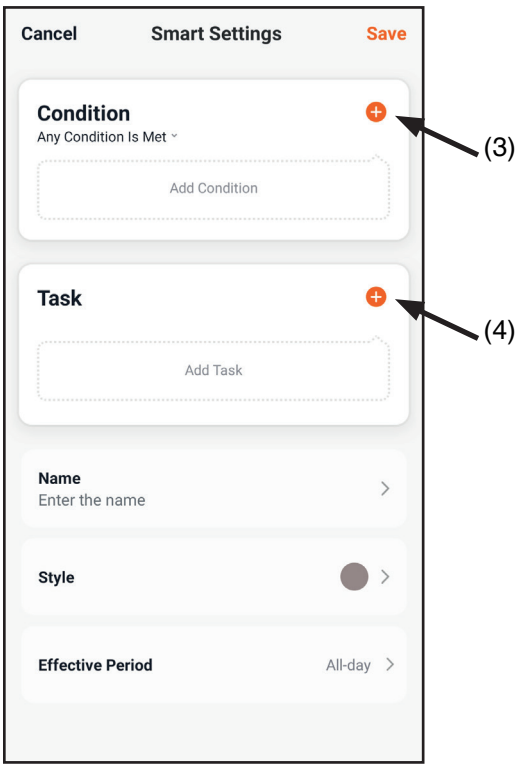

5. Now the voice commands can control the control unit

## 6.3 - USING VOICE CONTROLS

In order to set up voice commands, you must create a scene on OneSmart and then associate it with a Google or Alexa routine by choosing the phrase to pronounce to match the most appropriate action.
Speech controls for automation control depend on the operation of START contact at the automation plant.

### 6.3a - CREATING A SCENARIO ON ONE SMART

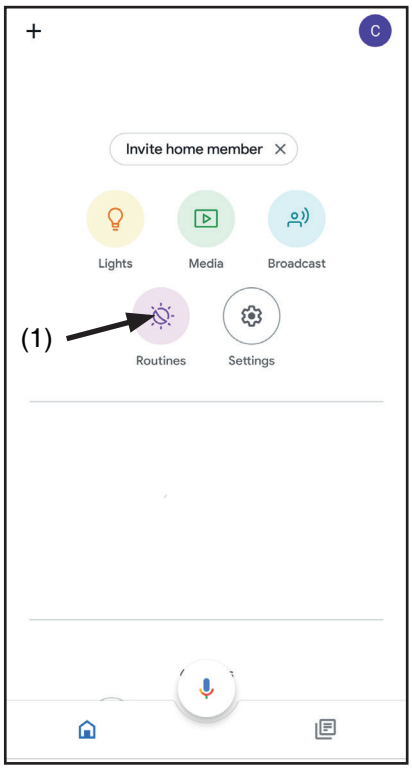


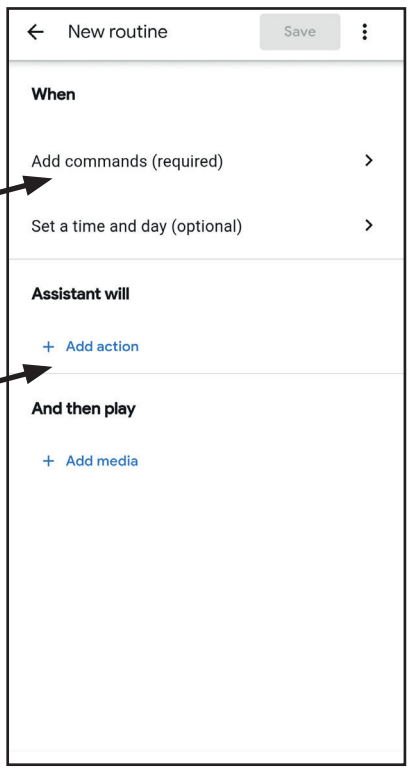



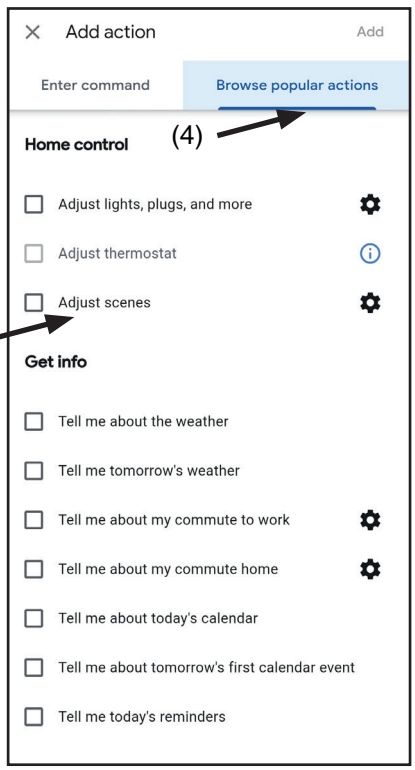

- On the OneSmart application go to the Smart window (1)
- Press “Add Tap to Run” (2)
- As a condition, select “Click to execute” (3)
- Select the device, then select the “Start” command (4)
- Rename and save

### 6.3b - CREATING A GOOGLE ROUTINE

1 - On the Google Home application, select Routines (1)
2 - Create a new routine and insert the phrase you want to pronounce to “Add Commands” (2)
3 - On “+ Add Action” (3), select “Browse popular actions” (4) and then “Adjust Scenes” (5)
4 - Select the scene created on One Smart in procedure 6.3a.

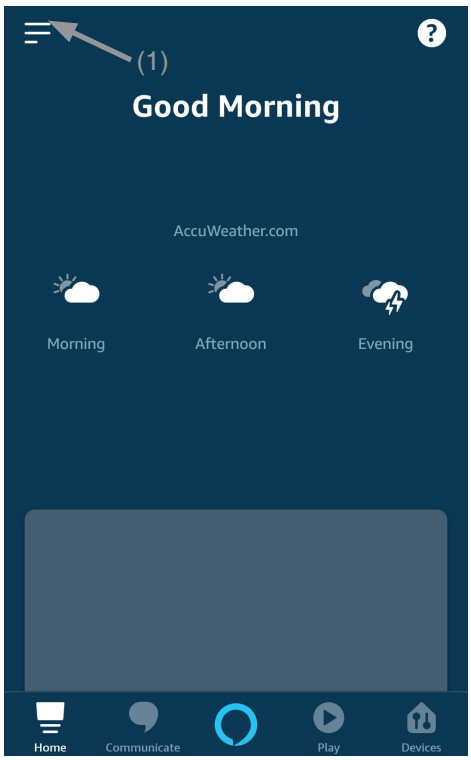


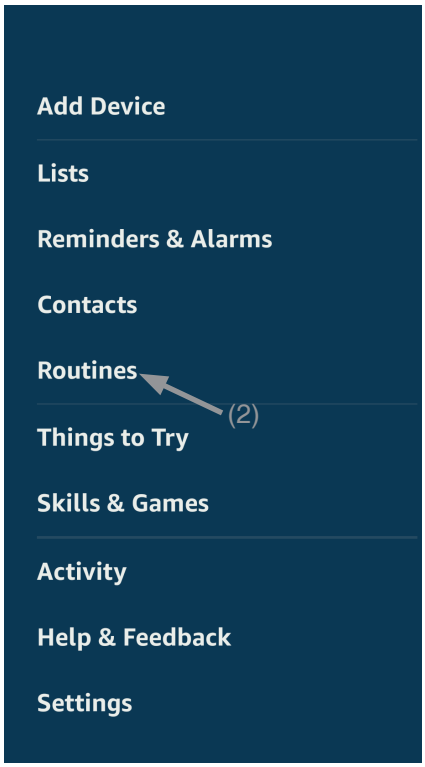



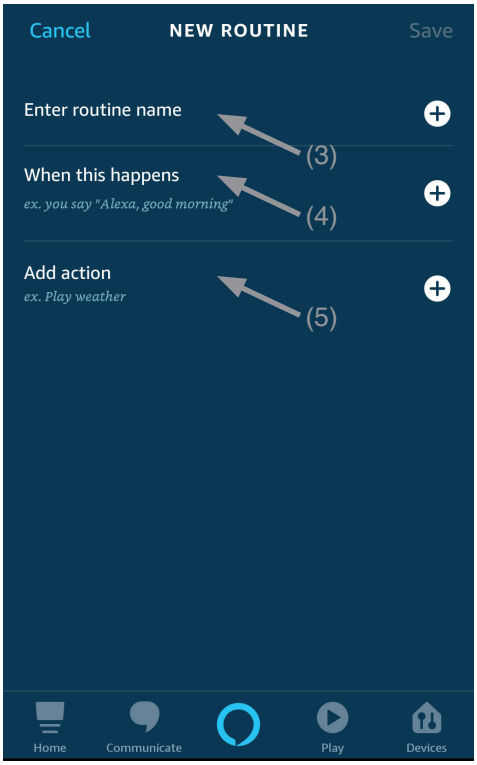



6.3c - CREATING A ALEXA ROUTINE

1 - On Alexa application, select the menu (1)
2 - Select “Routinese” (2), and then add a new one
3 - Enter the name (3), the phrase you want to pronounce (4), and “add an action” (5) select “Smart Home”, then select “Control scene”. Select the scene created on One Smart in procedure 6.3a.




6.3c - DETAILED

The operation of the Start and therefore voice commands also depend on the operation of START contact in the automation control unit.

It is recommended to create voice commands consistent with the operation of the installation.

**Voice command tips based on how the start works**

START SET AS STEP-STEP (when it’s close, open / when it’s open, close / during the moving stops)
If automation is controlled without being visible, a generic command such as “start cacello/garage”, “gate/garage” must be created

If you control automation by seeing its status, you can create multiple voice commands: “open the gate/garage”, “lock the gate/garage” or “close the gate/garage”.
All of these commands refer to the same action (closing the start contact).
Clearly if the gate is in motion and the “open gate” command is sent, it will stop.

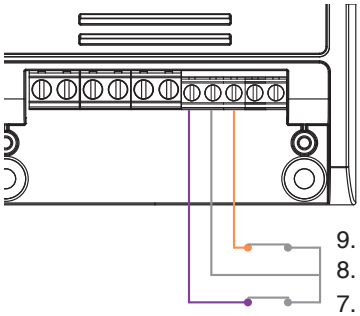
START SET AS OPEN ONLY, CONDOMINAL FUNCTION (whatever automation status the start will open)
Suggested commands “Open Gate” or “Open Garage”

# 7 - ADVANCED PROGRAMS

## 7.1 VIEWING THE DOOR STATUS ON THE APP

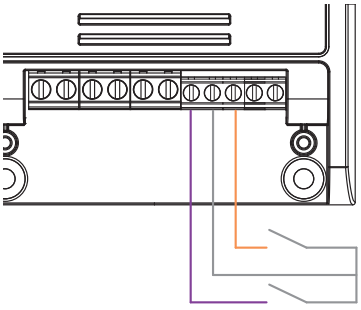
To display the status of the door (open, closed, partially open) on the app, you must connect the contacts to the control unit.
The control unit can work with:
- **two normally closed contacts with no voltage**
typically this means there are two micro limit switches, one for when the door opens and one for when it closes, connected to the relevant inputs. When the door touches the microswitch, the contact must open; this turns on the green light in the app.
- **two normally open contacts with no voltage**
typically this means there are two micro limit switches, one for when the door opens and one for when it closes, connected to the relevant inputs. When the door touches the microswitch, the contact must close; this turns on the green light in the app.
- **one normally closed contact with no voltage when opening**
typically this means there is one micro limit switch for when the door opens, connected to the relevant input. When the door touches the microswitch, the contact must open; this turns on the green light in the app and turns off the other light.
- **one normally open contact with no voltage when opening**
typically this means there is one micro limit switch for when the door opens or closes, connected to the relevant input. When the door touches the microswitch, the contact must close; this turns on the green light in the app and turns off the other light.
- **one normally open contact with 12-24 VDC**
typically this means there is a status light (12 or 24 VDC) for the connected door, connected to the relevant input. When the status light is on, the green light also comes on in the app and the other light goes off, and vice versa.

## TWO NORMALLY CLOSED CONTACTS WITH NO VOLTAGE



9. Closing NC contact
8. Common
7. Opening NC contact

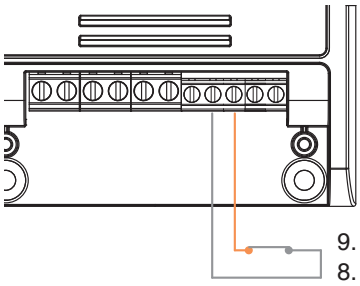
## TWO NORMALLY OPEN CONTACTS WITH NO VOLTAGE



9. Closing NO contact
8. Common
7. Opening NO contact

**NOTE:** to use this configuration you must follow the procedure on the next page

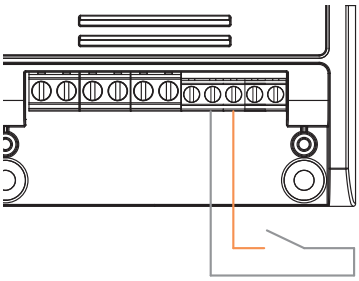
## ONE NORMALLY CLOSED CONTACT WITH NO VOLTAGE WHEN OPENING



9. Closing NC contact
8. Common

**NOTE:** to use this configuration you must follow the procedure on the next page

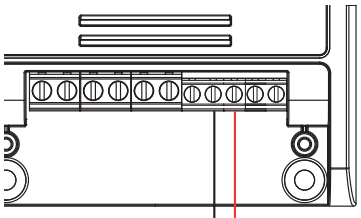
## ONE NORMALLY OPEN CONTACT WITH NO VOLTAGE WHEN OPENING



9. Closing NO contact
8. Common

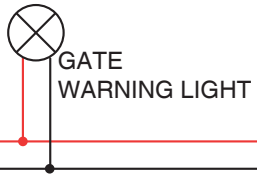
**NOTE:** to use this configuration you must follow the procedure on the next page

## ONE CONTACT WITH 12-24 VDC (WARNING LIGHT)



**NOTE:** to use this configuration you must follow the procedure on the next page

8. Common
9. Contact 12/24 VDC



GATE WARNING LIGHT

OPERATOR CONTROL UNIT

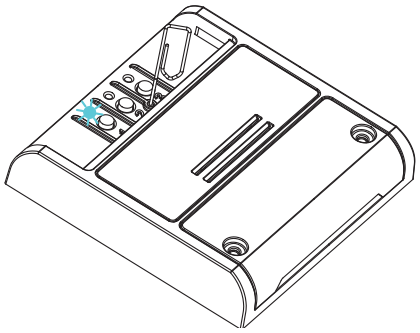
OUTPUT FOR GATE WARNING LIGHT 12/24 VDC
operation must be
warning light on = gate open
warning light off = gate closed

**SETTING THE CONTACT FOR LIMIT SWITCHES**
Default: No limit switches

This procedure is used to set the type of contacts of limit switches.

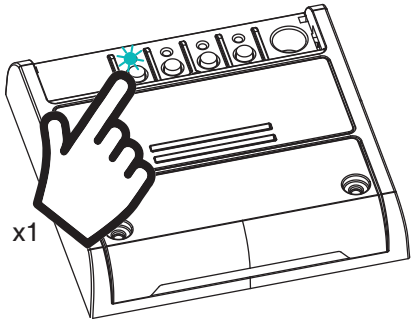
PROCEDURE

**STEP 1**
With a paper clip makes a long press of the “hidden” button.
The LED turns on light blue/pink cyclically.
Release the key when the led is light blue.



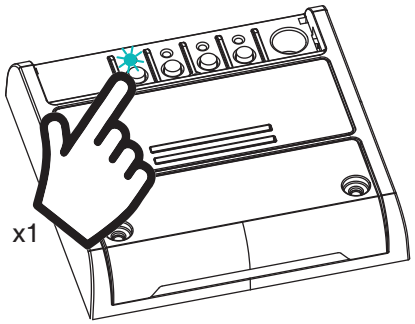
**STEP 2**
Press the button 1 on the receiver for a short time and count the number of Flashes emitted by the LED:

| FLASHES NUMBER | FUNCTION |
|---|---|
| 1 | No limit switches |
| 2 | n°2 NC contacts |
| 3 | n°2 NO contacts (default) |
| 4 | n°1 NC contact |
| 5 | n°1 NO contact |
| 6 | n°1 contact 12/24Vdc |
| 7 | Management with radio position sensor * |




**ACTION:** Short press of button 1
**LED:** Count the number of Flashes

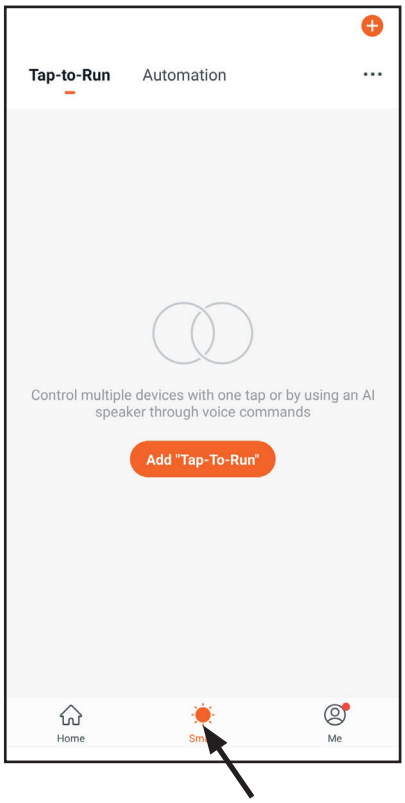
**STEP 3**
Press the button for a short time during the Flash that corresponds to the function desired to end the count.
The led turns off




**ACTION:** Short press of button 1
**LED:** Turns off

* the position sensor is an accessory that must be purchased separately

USE THE LIMIT SWITCHES TO CREATE AN AUTOMATION




From the “Smart” screen, you can create automation, that is, automatic events.
You can enter conditions in the automation setup menu:
- door closed
- closing action
- open door
- opening action

Automation Examples:
- when the gate starts to open the garden lights on
- when the gate is open, notify me

**7.2 GRAPHICS OF THE APPLICATION INTERFACE**
You can change the interface according to the type of automation you are going to control.
The appearance does not affect the functionality of the control unit.

There are 4 types of screens:
garage (1), swing gate (2), sliding gate (3) and generic atuomation (4).

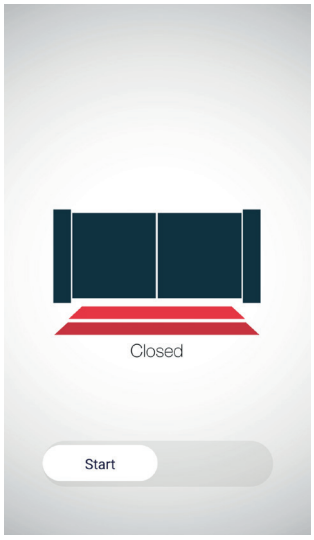
**GARAGE INTERFACE**

open automation
(if limit switches are
present)

closed automation
(if limit switches are
present)

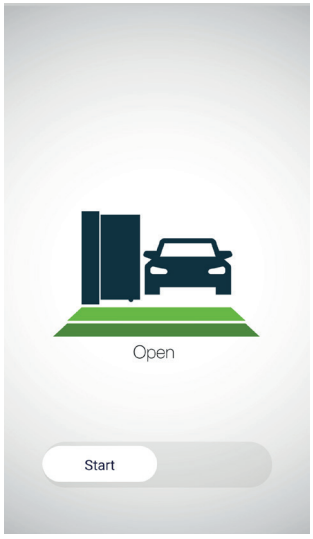
## SWING GATES INTERFACE

open automation
(if limit switches are present)

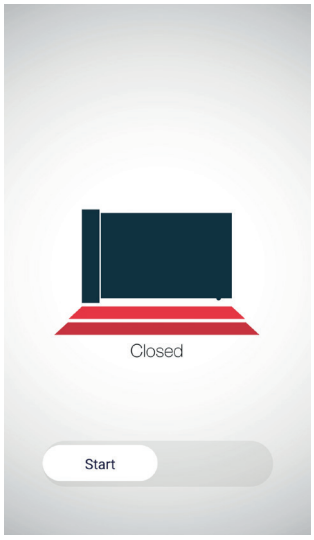



closed automation
(if limit switches are present)

## SLIDING GATES INTERFACE

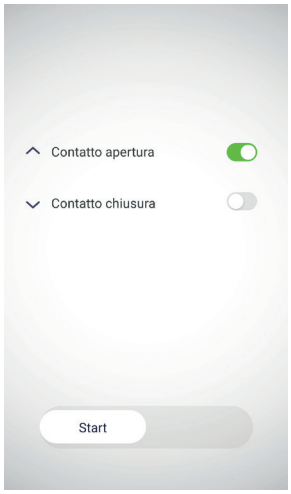



open automation
(if limit switches are present)

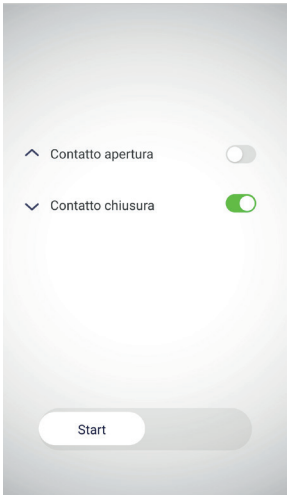



closed automation
(if limit switches are present)

## GENERIC INTERFACE




open automation
(if limit switches are present)



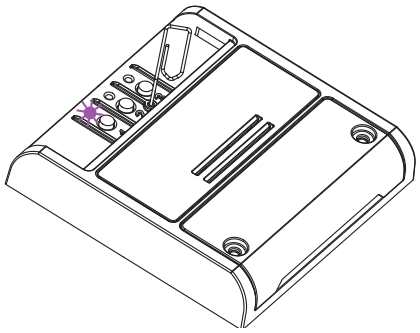

closed automation
(if limit switches are present)

**SETTING THE SCREEN TYPE**
Default: generic interface

With this procedure you can set the appearance of the screen in the application.

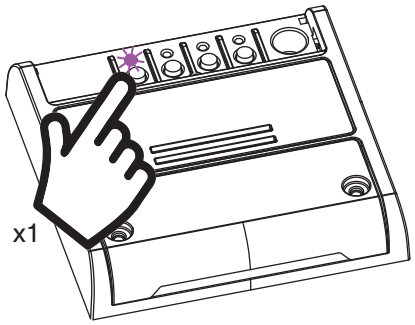
PROCEDURE

**STEP 1**
With a paper clip makes a long press of the “hidden” button.
The LED turns on light blue/pink cyclically.
Release the key when the led is pink.



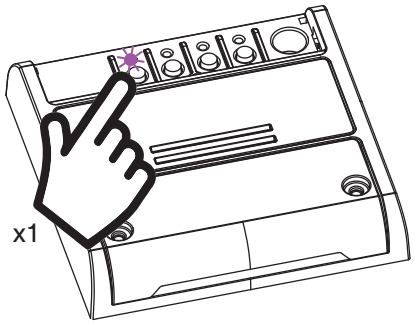
**STEP 2**
Press the button 1 on the receiver for a short time and count the number of Flashes emitted by the LED:

| FLASHES NUMBER | FUNCTION |
|---|---|
| 1 | Garage |
| 2 | Swing gates |
| 3 | Liding gates |
| 4 | Generic automation |



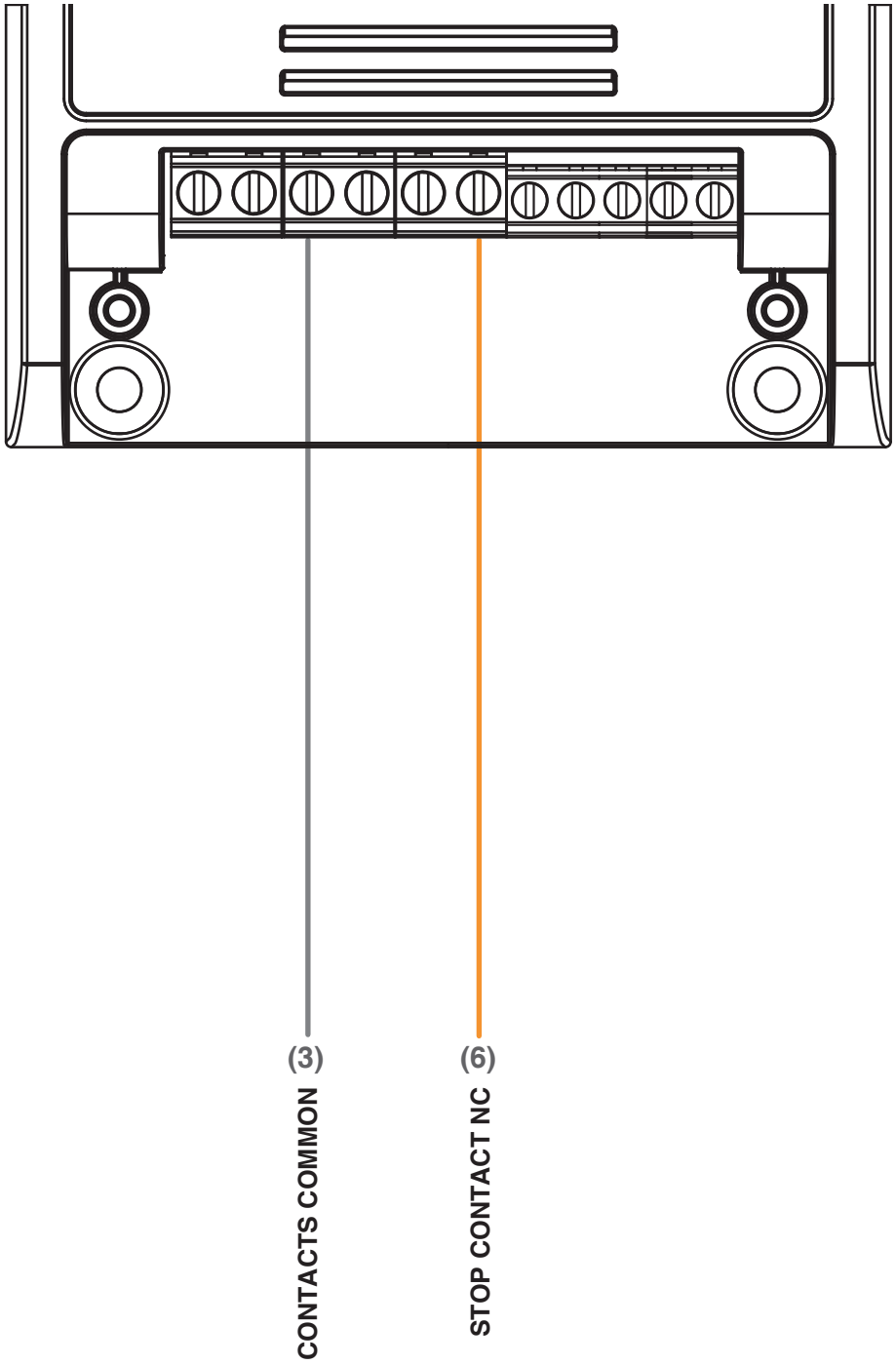

**ACTION:** Short press of button 1
**LED:** Count the number of Flashes

**STEP 3**
Press the button for a short time during the Flash that corresponds to the function desired to end the count.
The led turns off




**ACTION:** Short press of button 1
**LED:** Turns off

**7.3 CONNECT THE STOP CONTACT (OPTIONAL)**
Automation control does not require an automation lock contact.
This contact needs to block automation by using STOP input of the automation control unit.




**WARNING:**
- The stop contact are not necessary for START contact to work. This contatcts is use to verify automation status on your app (open, closed, partial open)
- Contact must be free of tension

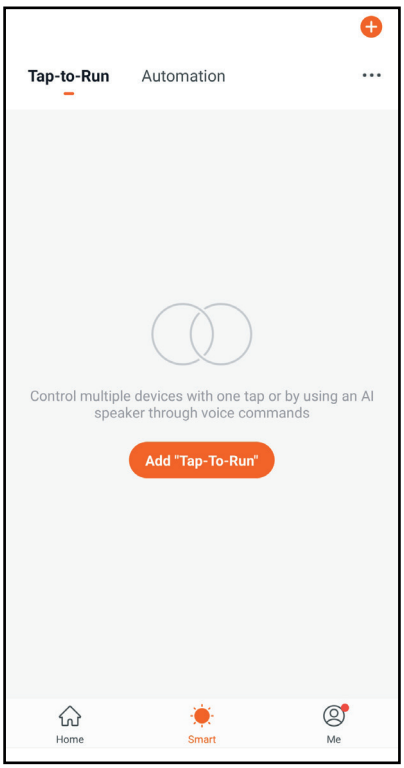
**USE VIA APP**

In order to use the application stop contacts, it is necessary to associate the control unit with the application, see paragraph 6.

Once the device is associated, it will be present on the home.

You can use stop contacts to know the status of automation

USE THE LIMIT SWITCHES TO CREATE AN AUTOMATION




From the “Smart” screen, you can create automation, that is, automatic events.

You can enter task in the automation setup menu:

- lock function on
- lock function off

Automation Examples:

- at 8.00 a.m. open the gate and when it is open activated the lock function
- at 20.00 p.m, if the gate is close, activated the lock function

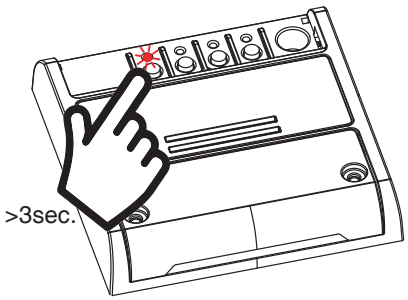
### 7.3 - RESET OF THE CONTROL UNIT

This procedure let you take the control unit back to factory settings.
ATTENTION: the only parameter that will not be removed will be the association with the ONESMART application.
To edit or delete also this parameter, reed the procedure.

PROCEDURE

**STEP 1**

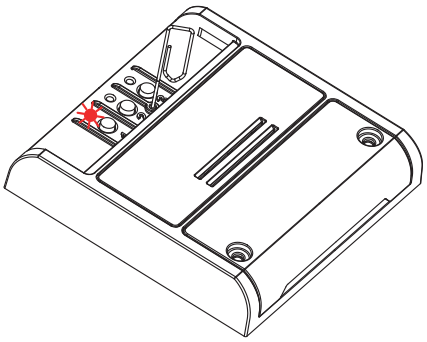
Hold the receiver button P1 down (about 4 seconds.) until the LED begins to Flash.




**ACTION:** Hold button RADIO down **LED:** Flashes red

**STEP 2**

Within 10 seconds, make a short press of hidden button.
The LED 1 Flashes quickly and turns off.



**AZIONE:** Short press of Wi Fi button **LED:** the led Flash quicly and turns off

# 8 - INSIGHTS

## 8.1 – ISSUES WHEN CONNECTING THE CONTROL UNIT WITH WIFI

If you're having problems connecting the control unit to the router, we suggest to:

FIRST CHECKS:
- check if the network used to connect the control unit is running at 2.4GHz (not 5GHz)
- the smartphone you use must be connected to the same WiFi on which you want to connect the device
- please check if the entered password is correct

STEPS TO DO:
- close the app and try again to connect the device
- if possible try with another smartphone to check if it works

If the problem is not fix, there may be some settings in your router that make the network incompatible with the device. To check and change these settings it's necessary to access the router settings.

As soon as you access the router settings (it depends on the model of router you have) try to check and set these parameters:

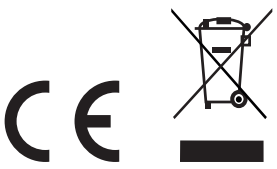
WIFI FREQUENCY BAND
some routers generate a network that is set automatically at a frequency of 2.4GHz or 5GHz, depending on the device you are connecting with. When you are trying to connect the device through your OneSmart account, your smartphone may be connected automatically at the frequency band of 5GHz, failing the connection with your device.
It's therefore necessary to access the router settings and set the 2.4GHz as the main network frequency to use.
Otherwise it's possible to create two different WiFi networks, one for the 2.4GHz and one for the 5GHz band, and during the pairing phase make sure your smartphone is connected to the 2.4GHz network.

WIFI SECURITY SETTINGS
some routers could have default security settings not compatible with the device.

Please find out which security protocol type your Wi-Fi router is and change it to:

WI-FI SECURITY:
SECURITY TYPE: WPA2
ENCRYPTION TYPE: AES

ROUTER GATEWAY TO ENABLE
80
443
1883
8883
8886
8887

V3.0

**Nexta Tech**
company brand of Team srl
via G.Oberdan 90, 33074
Fontanafredda (PN) - Italy
Ph. +39 0434 998682
Email: info@nexta-tech.com
Web: www.nexta-tech.com