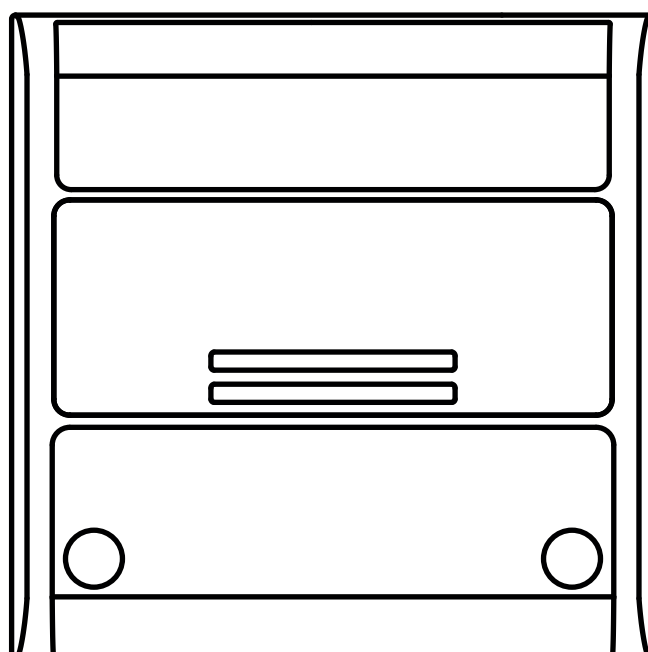


PLANO-LOCK-ONE



**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.**

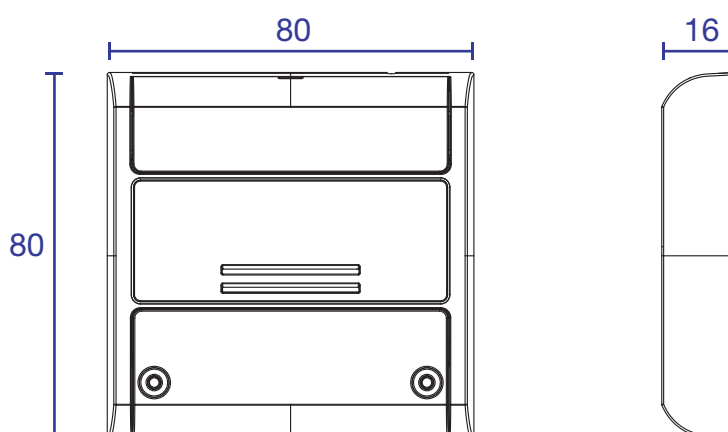
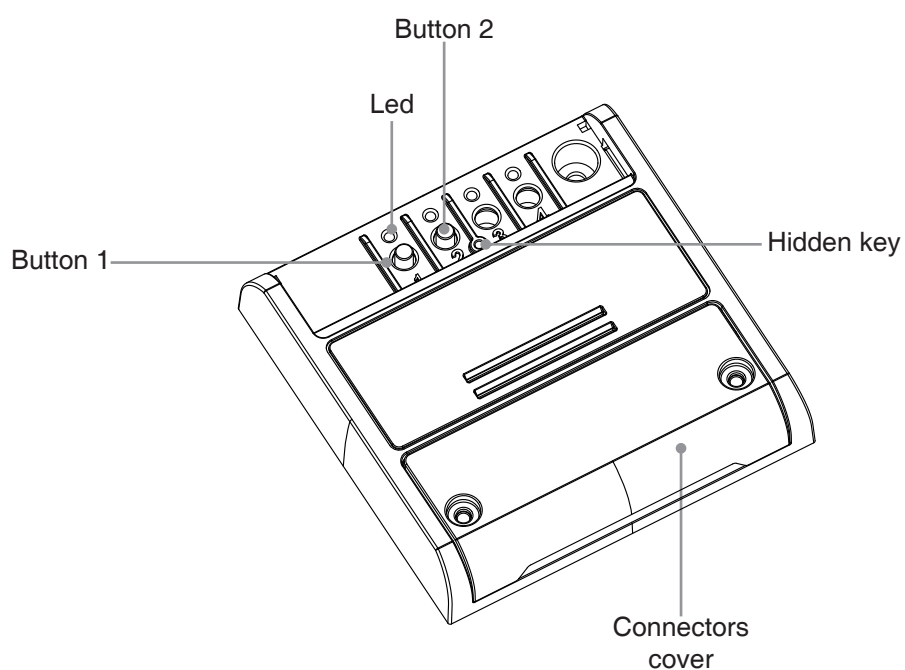
INDEX

1 - PRODUCT FEATURES	
1.1 - TECHNICAL DATA	page 3
<hr/>	
2 - CONNECTION DIAGRAMS	
2.1 - START CONTACT CONNECTION DIAGRAM	page 4
<hr/>	
3 - USE OF THE CONTROL UNIT	
3.1 - TYPICAL INSTALLATION	page 6
3.2 - USE VIA RADIO	page 7
3.3 - USE WITH SMARTPHONE APPLICATION	page 7
3.4 - USE WITH VOICE CONTROL	page 7
<hr/>	
4 - CONTROL BY RADIO TRANSMITTERS	
4.1 - RADIOTRANSMITTER SETTING	page 8
4.2 - DELETION OF RADIOTRANSMITTERS	page 9
<hr/>	
5 - CONTROL WITH APP ONE SMART	
5.1 - APP ONE SMART CONNECTION	page 10
5.2 - USE OF THE APP ONE SMART	page 11
<hr/>	
6 - CONTROL BY VOICE COMMANDS	
6.1 - CONNECTION TO THE APP "GOOGLE HOME"	page 12
6.2 - CONNECTION TO THE APP "AMAZON ALEXA"	page 13
6.3 - USING VOICE CONTROLS	page 14
<hr/>	
7 - ADVANCED PROGRAMS	
7.1 - VISUALIZATION OF THE STATE OF THE DOOR ON THE APP	page 16
7.2 - GRAPHICS OF THE APPLICATION INTERFACE	page 19
7.3 - MANAGING THE DOOR LOCK FROM THE APP	page 22
7.4 - RESET	page 24

1 - PRODUCT FEATURES

1.1 TECHNICAL DATA

Power supply	12-32 Vdc or 12-24Vac
Output	One NO contact (1A 30Vdc) for start function One NC contact (1A 30Vdc) for stop function
Status signaling inputs	1 input for open automation signaling dry contacts, 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



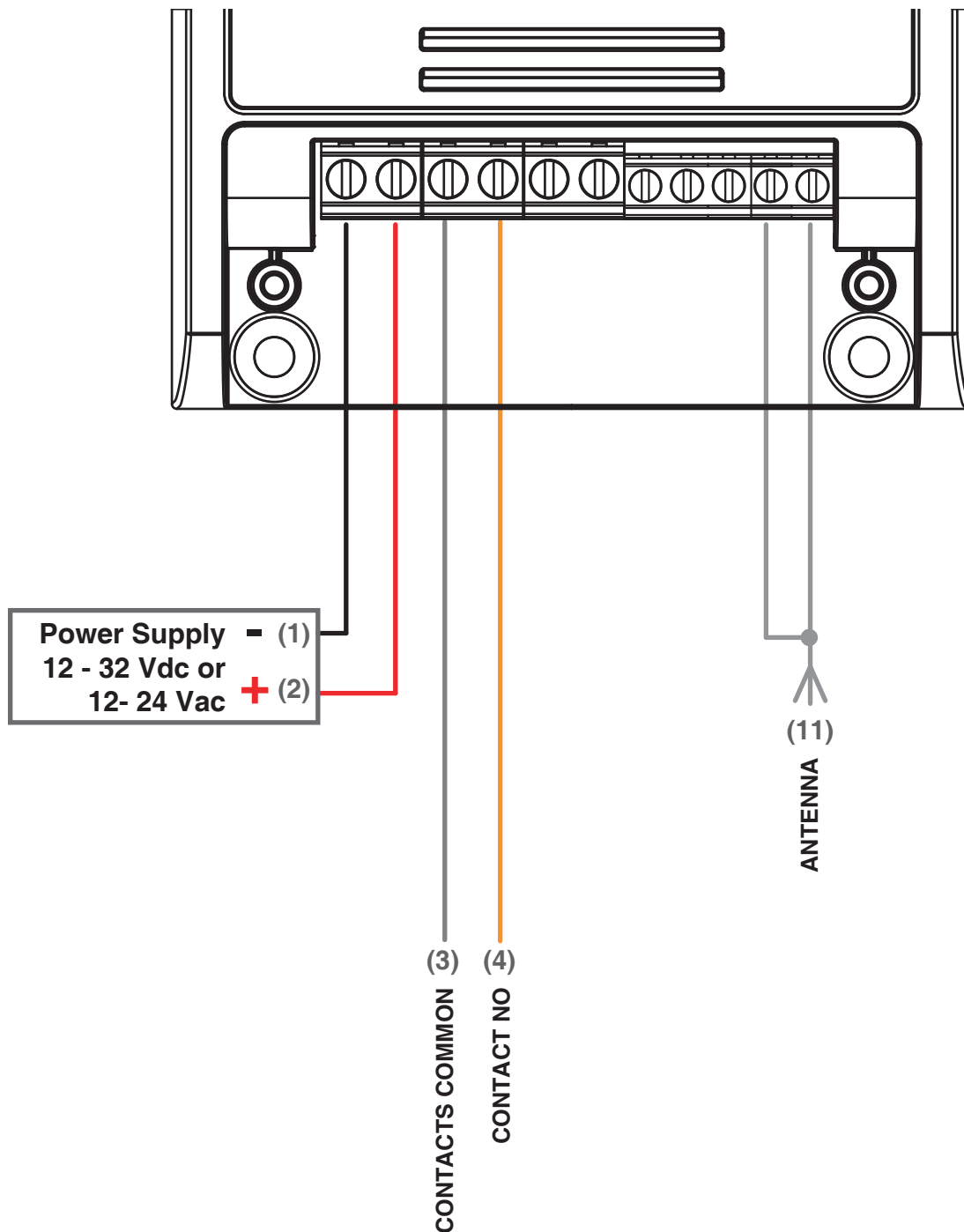
2 - CONNECTION DIAGRAMS

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 with 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

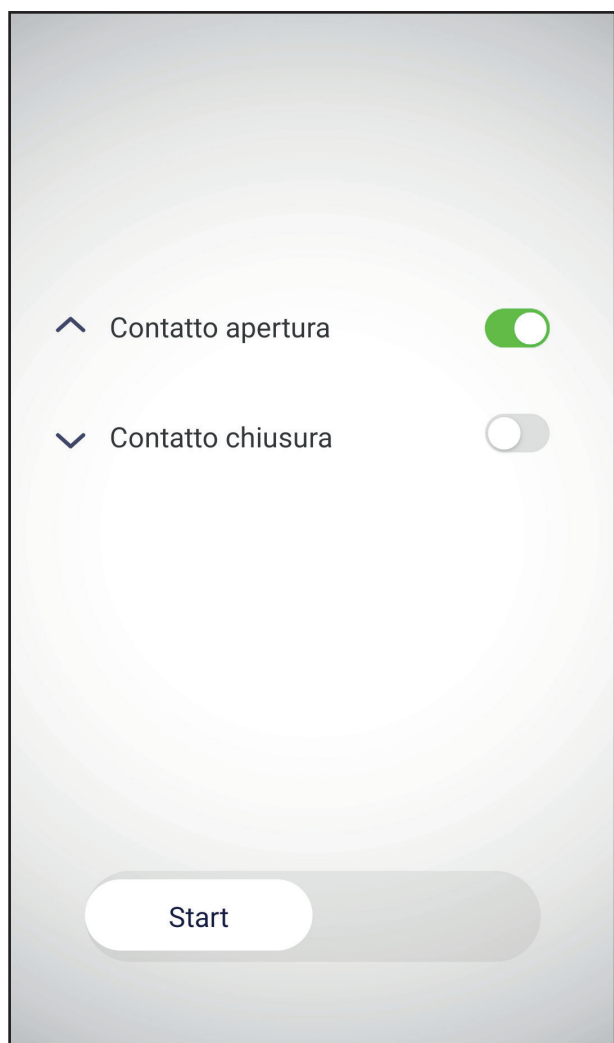
The start contact of the control unit is connected in parallel to any wire commands (e.g. buttons or key selectors) directly to the automation control unit.

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:

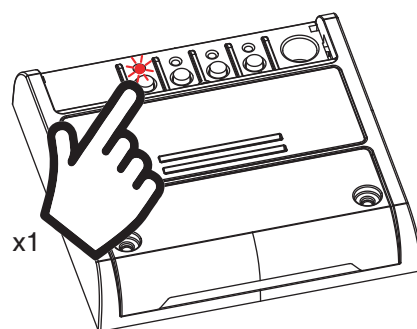
The functions of the generic transmitters is "start of the automation".

4.1 - RADIO PROGRAMMING

This procedure lets you programme compatible multifunctional or generic transmitters.

STEP 1

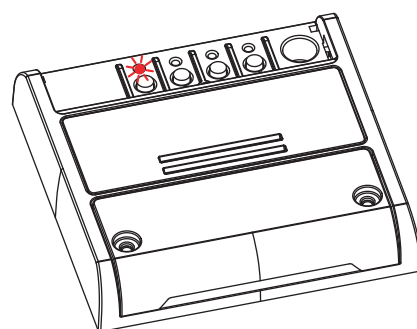
Press the button 1.
The led turns on red.



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.



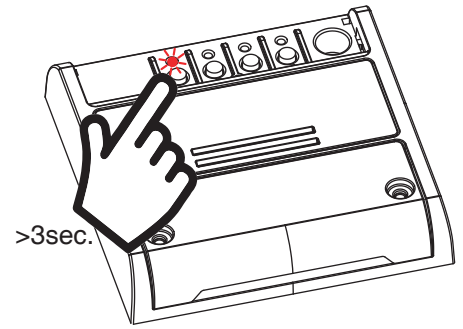
ACTION: Make a transmission with the transmitter **LED:** Flashes 3 times

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.

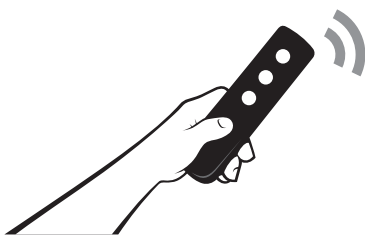
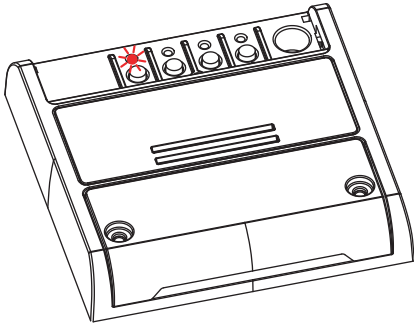


ACTION: Hold tbutton 1 down **LED:** Flashes red

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.

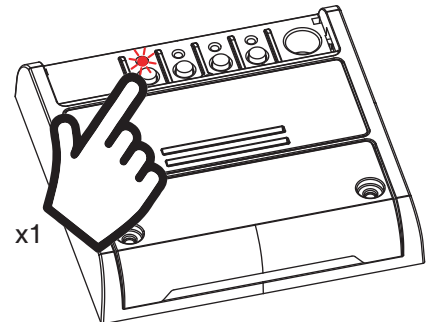


ACTION: Make a transmission with the transmitter
LED: Flashing quickly and turns off

DELETION OF ALL TRANSMITTER SAVED

STEP 2B

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



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

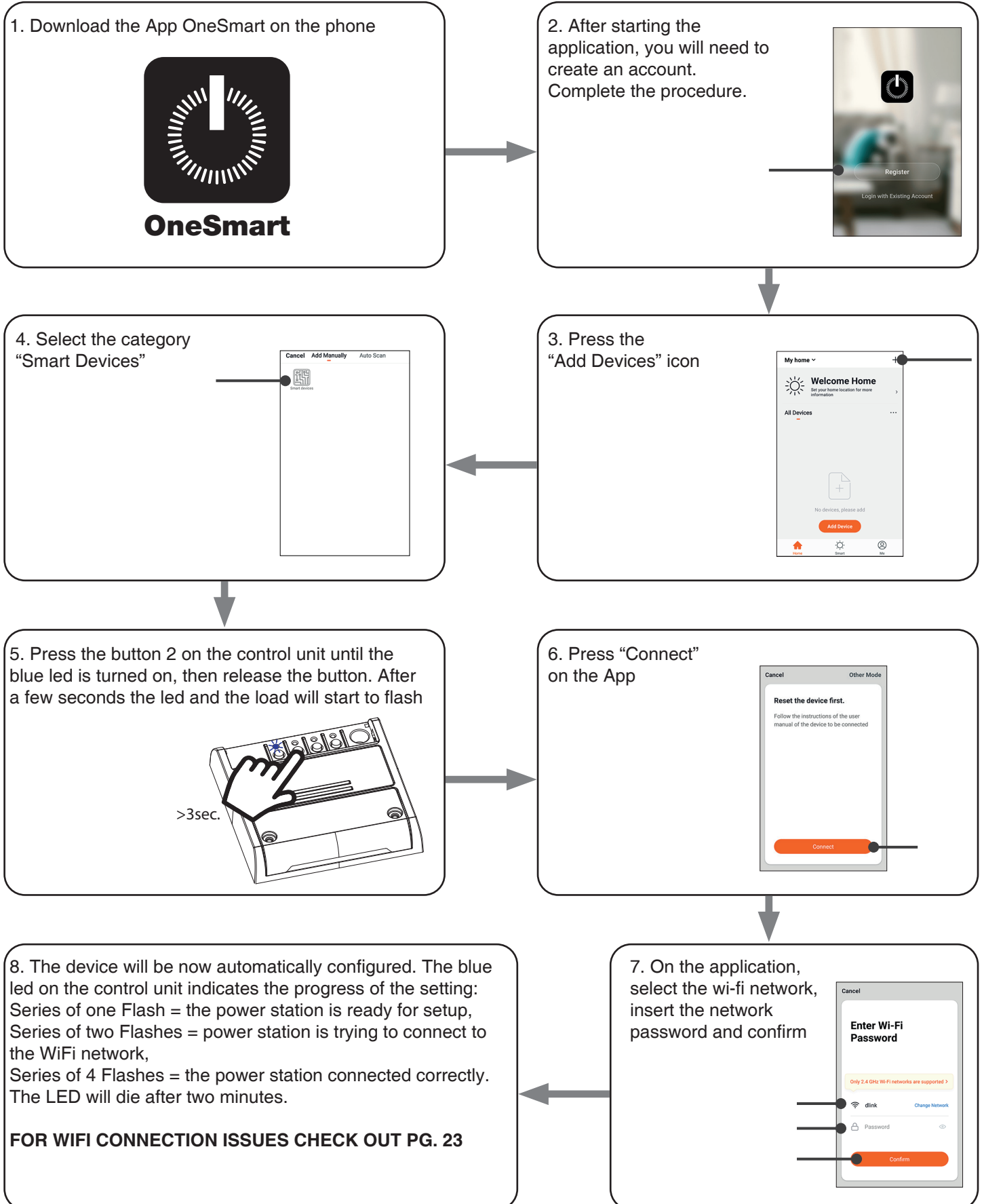
5 - CONTROL WITH APP ONE SMART

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 the operation.



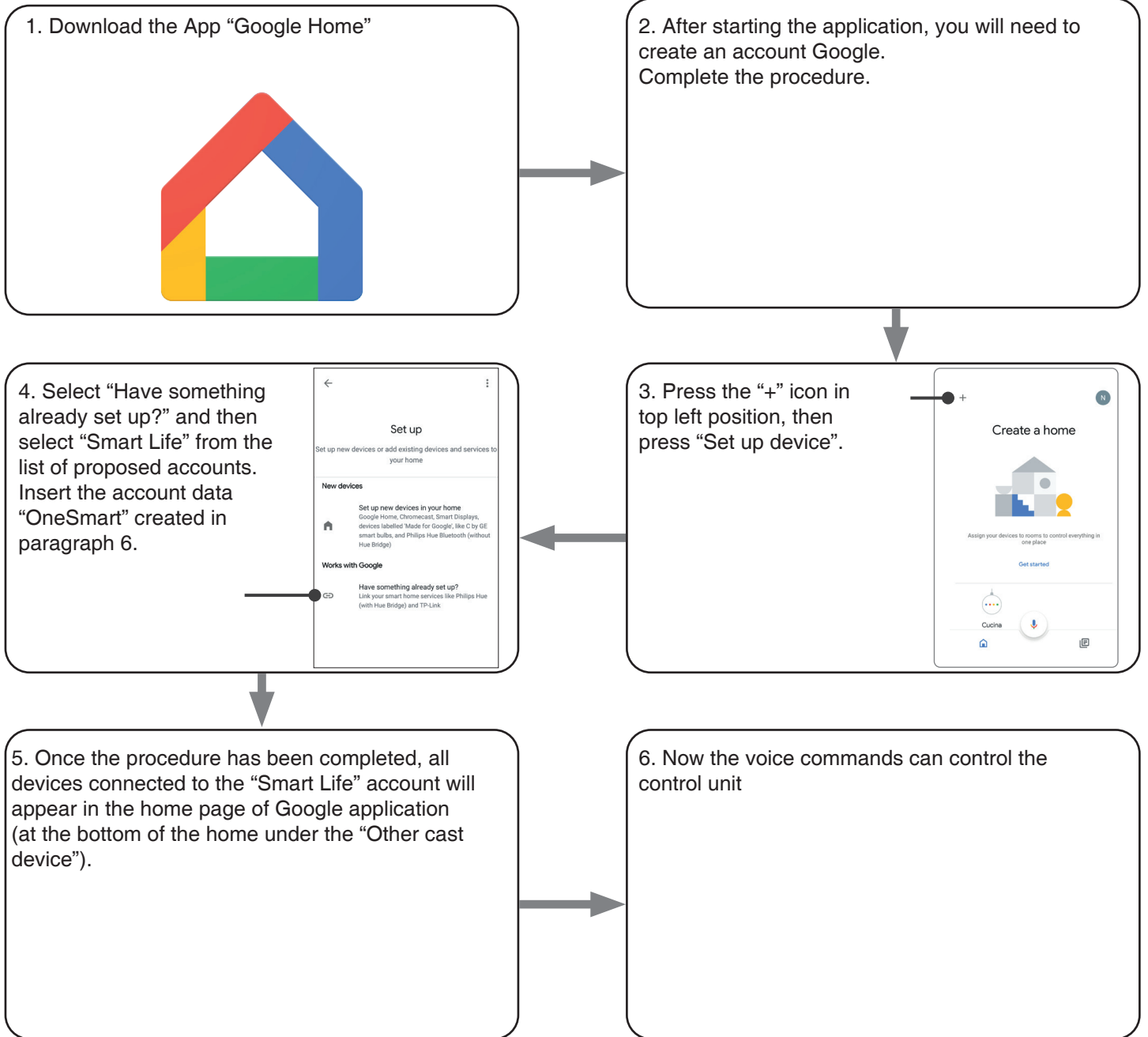
6 - CONTROL BY VOICE COMMANDS

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.



NOTES:

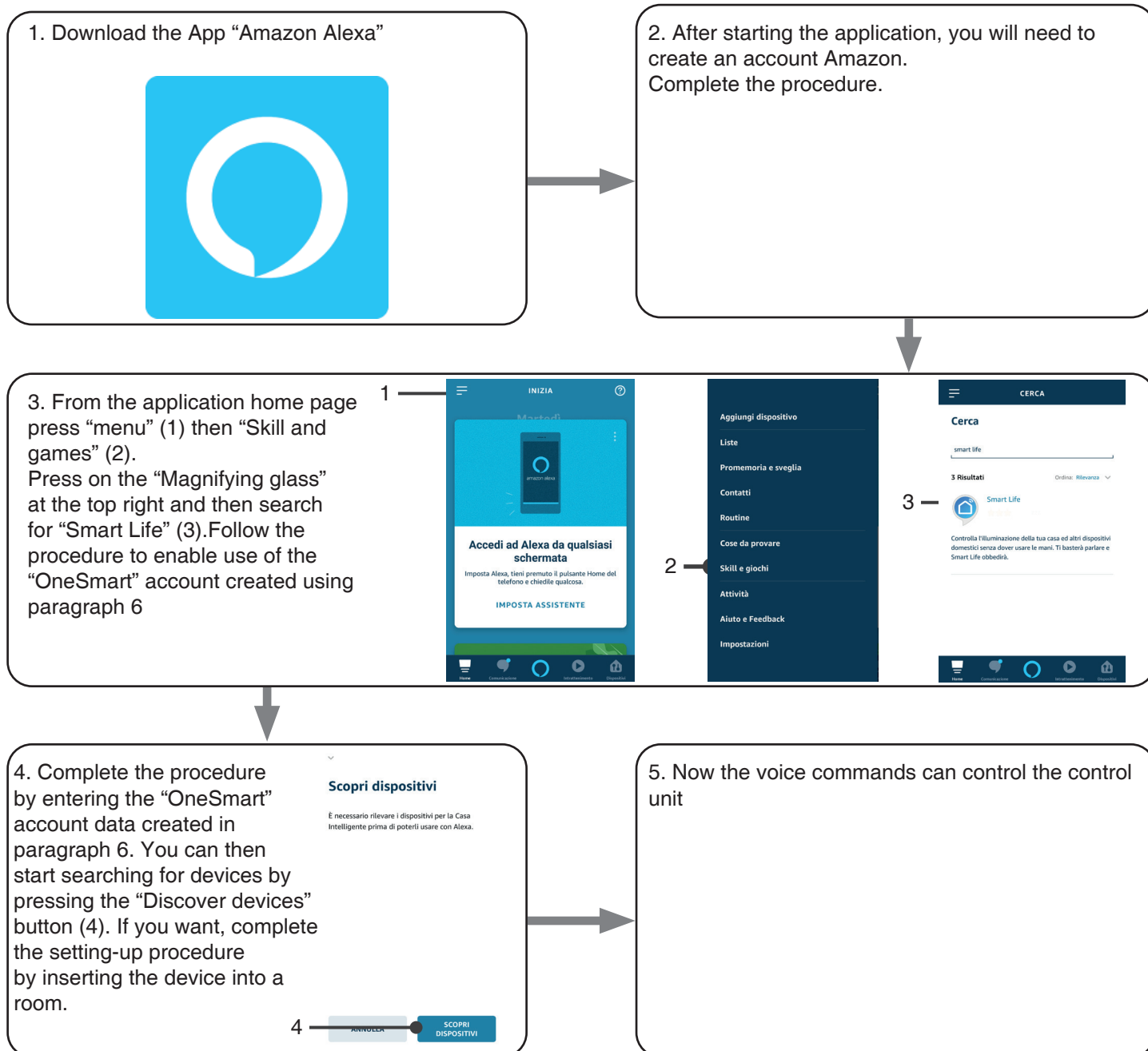
If you add other devices to your OneSmart application, they will automatically be added to the Google Home page. To use them with voice control, you need to add them to a room in the Google Home application, see step 6 of the procedure.

If devices are not added automatically, disconnect and reconnect your account from step 3 of this procedure from Google Home.

6.2 - COONNECTION TO “AMAZON ALEXA”

PROCEDURE

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

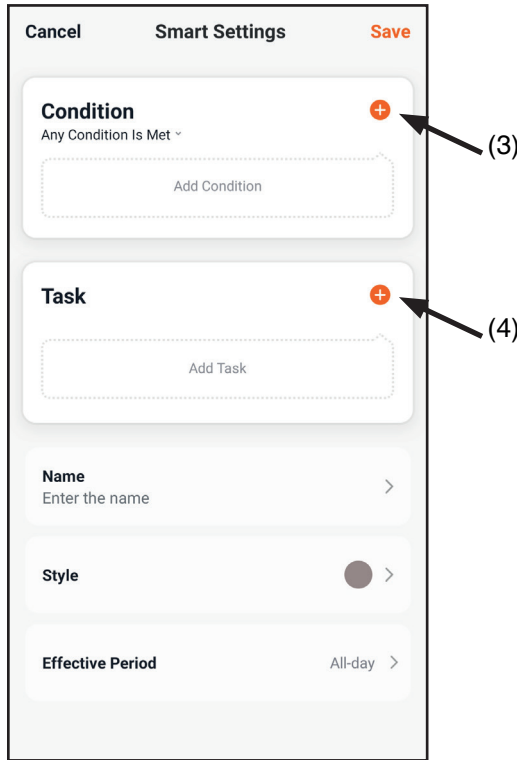
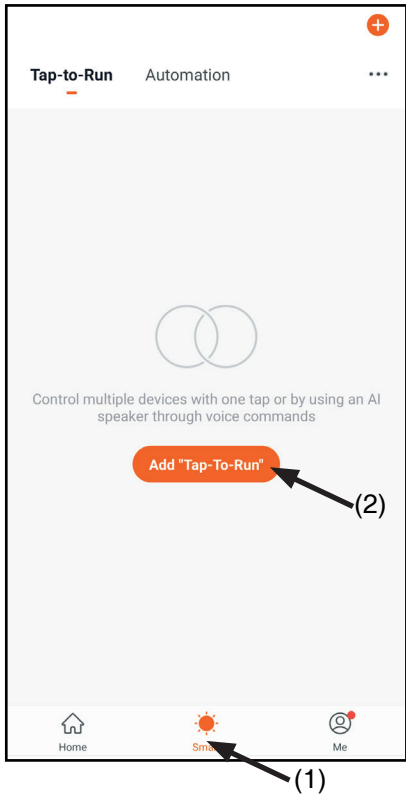


6.3 - USING VOICE CONTROLS

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

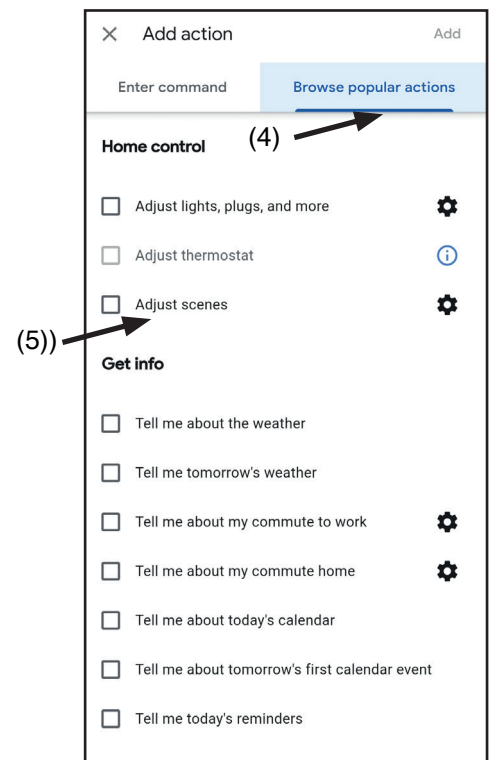
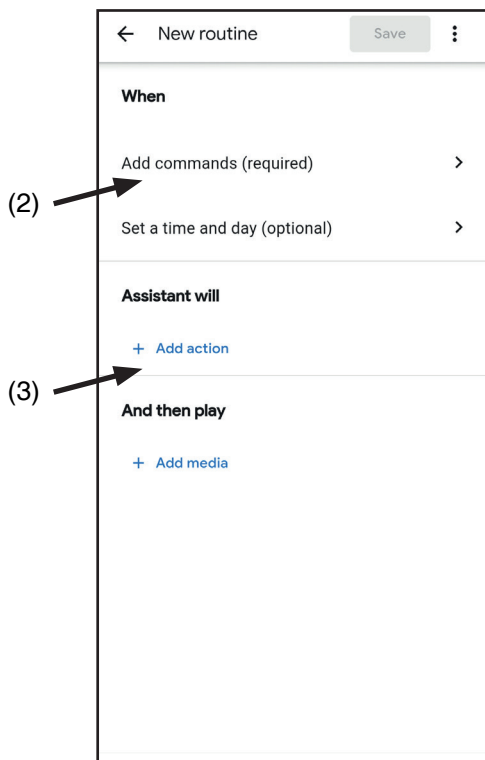
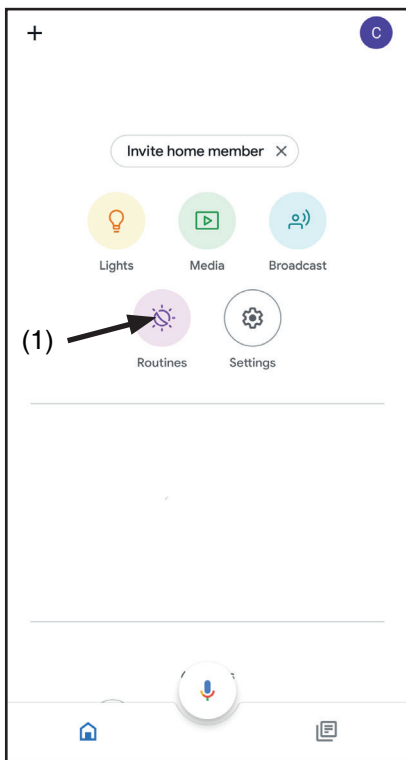
6.3b - CREATING A GOOGLE ROUTINE

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)

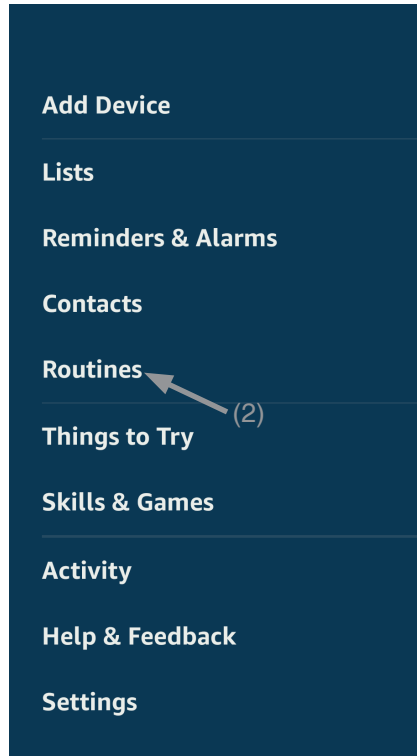
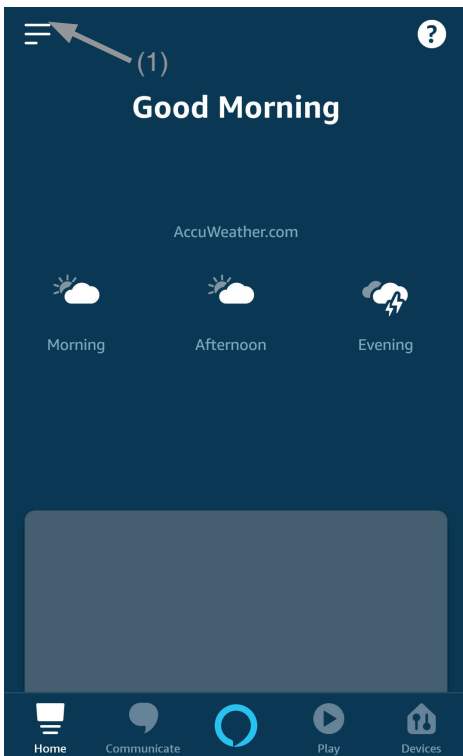
3 - On "+ Add Action" (3), select "Browse popular actions" (4) and then "Adjust Scenes" (5)

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 "Routines" (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.

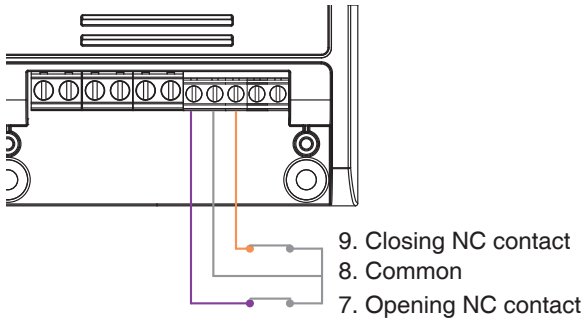
- **one normally open contact with no voltage when opening**

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.

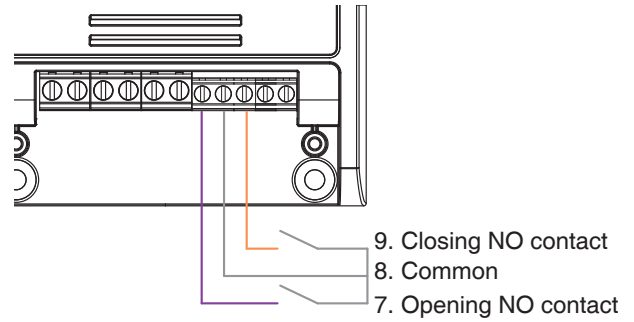
- **one normally open contact with 12-24 VDC**

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

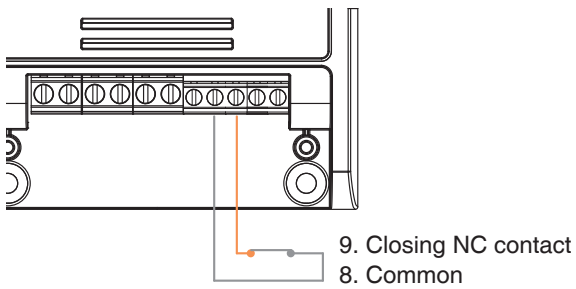


TWO NORMALLY OPEN CONTACTS WITH NO VOLTAGE



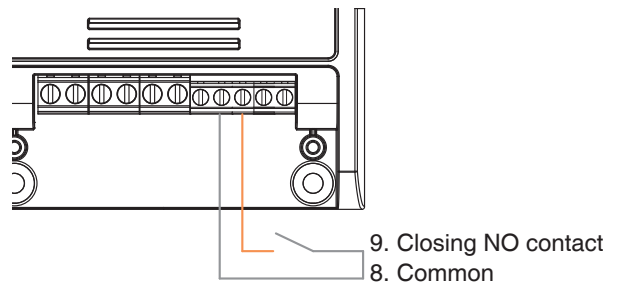
NOTE: to use this configuration you must follow the procedure on the next page

ONE NORMALLY CLOSED CONTACT WITH NO VOLTAGE WHEN OPENING



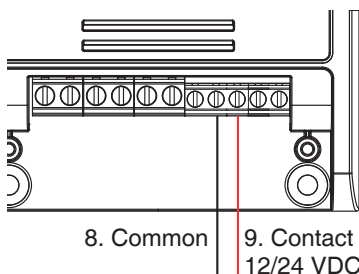
NOTE: to use this configuration you must follow the procedure on the next page

ONE NORMALLY OPEN CONTACT WITH NO VOLTAGE WHEN OPENING



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



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

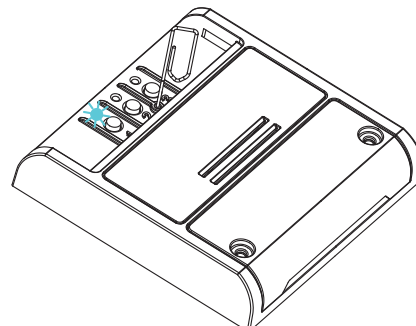
Default: No limit switches

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

PROCEDURE

STEP 1

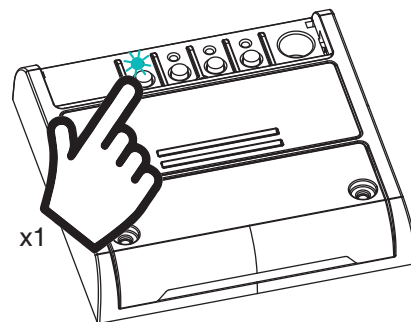
With a paper clip makes a long press of the "hidden" button.
The LED turns on light blue/pink cyclically.
Release the key when the led is light blue.



STEP 2

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

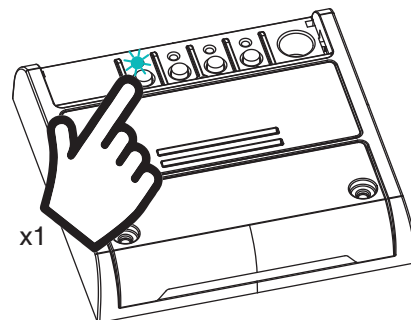
FLASHES NUMBER	FUNCTION
1	No limit switches
2	n°2 NC contacts
3	n°2 NO contacts (default)
4	n°1 NC contact
5	n°1 NO contact
6	n°1 contact 12/24Vdc
7	Management with radio position sensor *



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

STEP 3

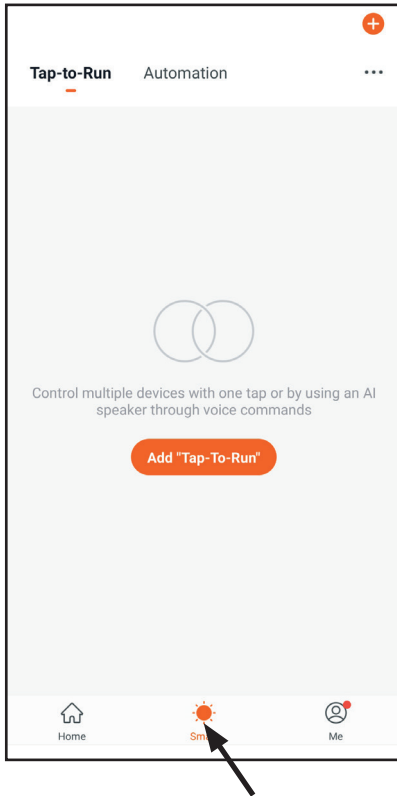
Press the button for a short time during the Flash that corresponds to the function desired to end the count.
The led turns off



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.

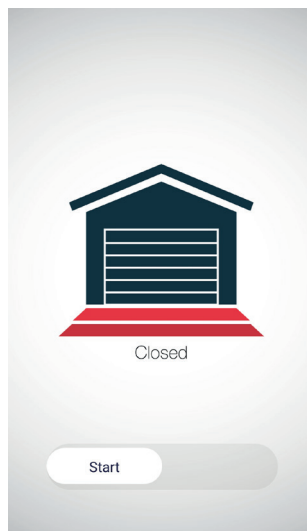
There are 4 types of screens:

garage (1), swing gate (2), sliding gate (3) and generic automation (4).

GARAGE INTERFACE



open automation
(if limit switches are present)

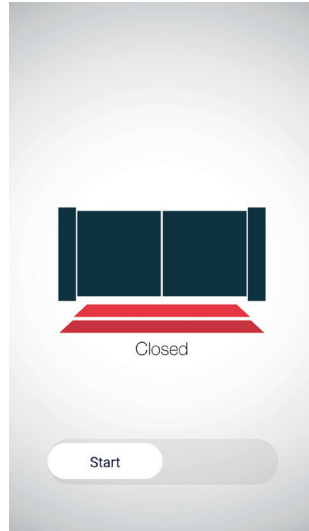


closed automation
(if limit switches are present)

SWING GATES INTERFACE

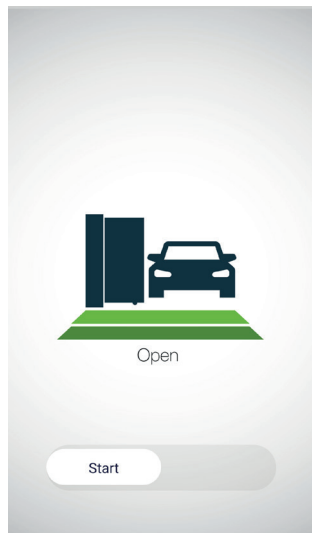


open automation
(if limit switches are present)

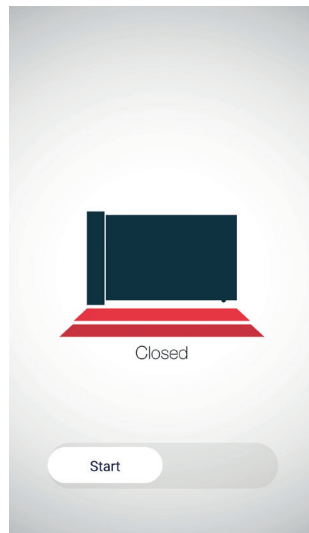


closed automation
(if limit switches are present)

SLIDING GATES INTERFACE

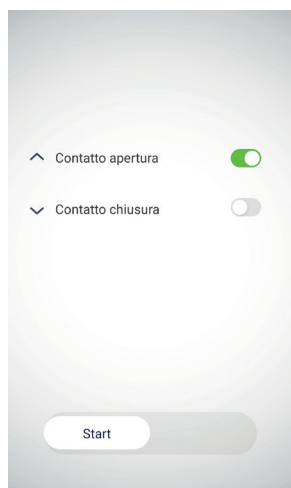


open automation
(if limit switches are present)

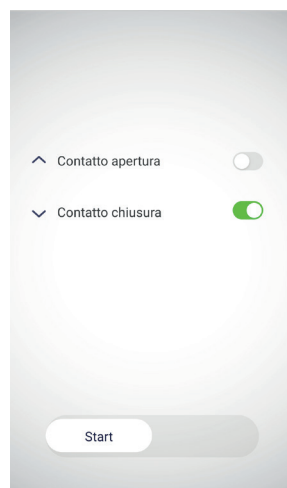


closed automation
(if limit switches are present)

GENERIC INTERFACE



open automation
(if limit switches are present)



closed automation
(if limit switches are present)

SETTING THE SCREEN TYPE

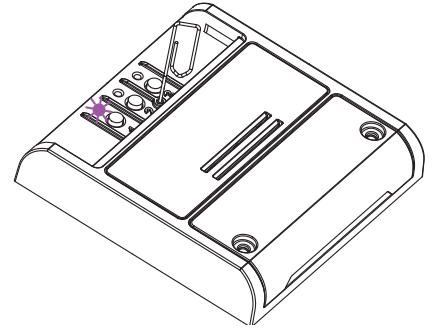
Default: generic interface

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

PROCEDURE

STEP 1

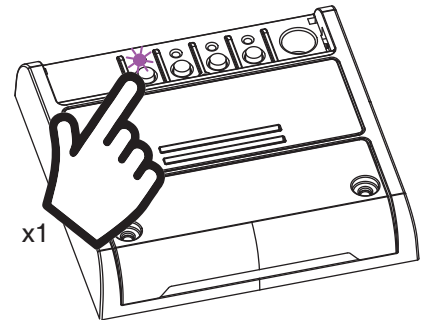
With a paper clip makes a long press of the “hidden” button.
The LED turns on light blue/pink cyclically.
Release the key when the led is pink.



STEP 2

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

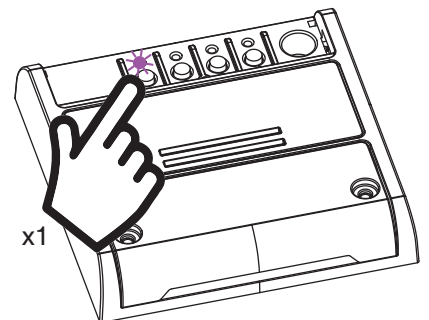
FLASHES NUMBER	FUNCTION
1	Garage
2	Swing gates
3	Liding gates
4	Generic automation



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

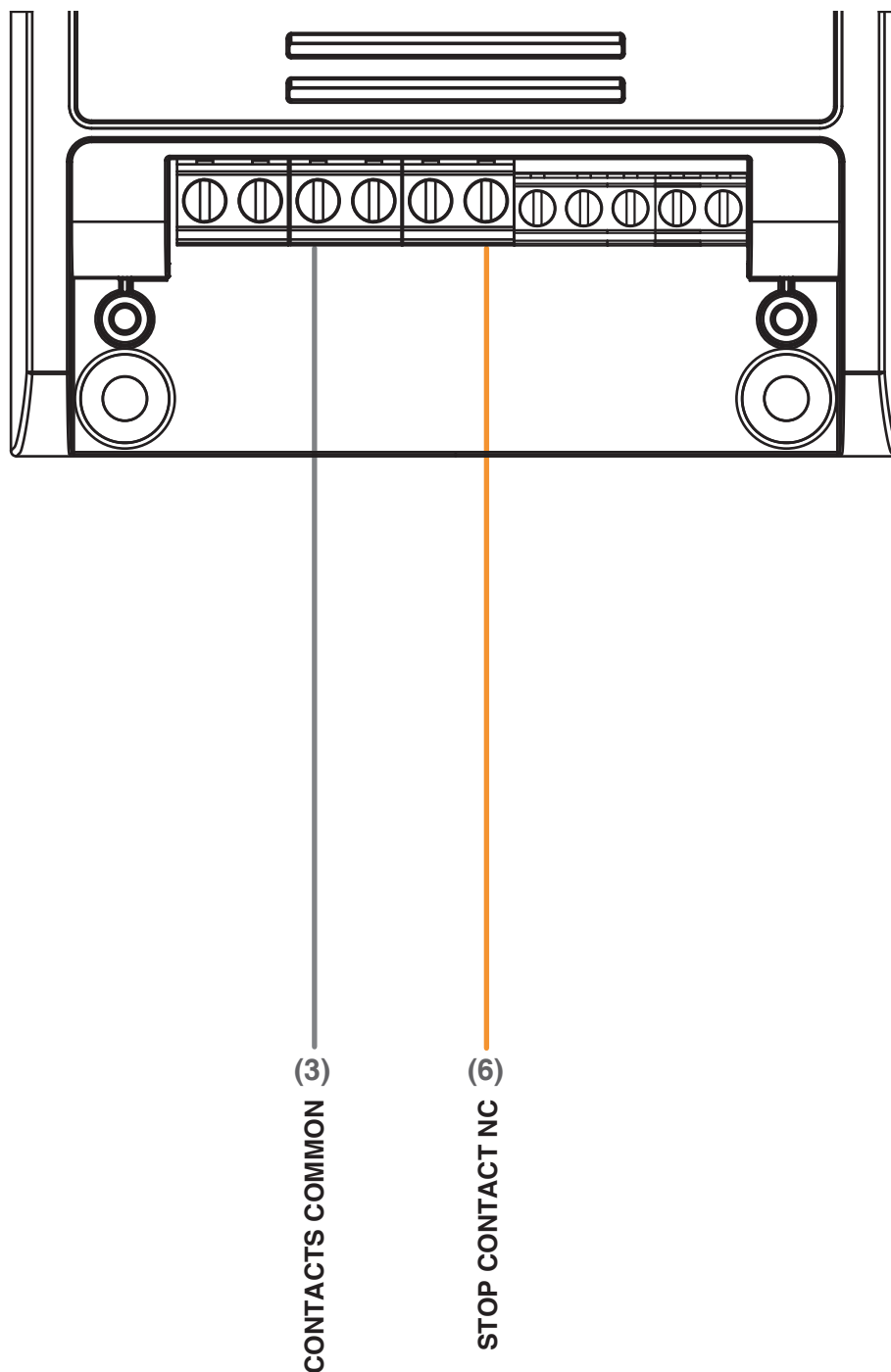


ACTION: Short press of button 1
LED: Turns off

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 contact is use to verify automation status on your app (open, closed, partial open)
- Contact must be free of tension

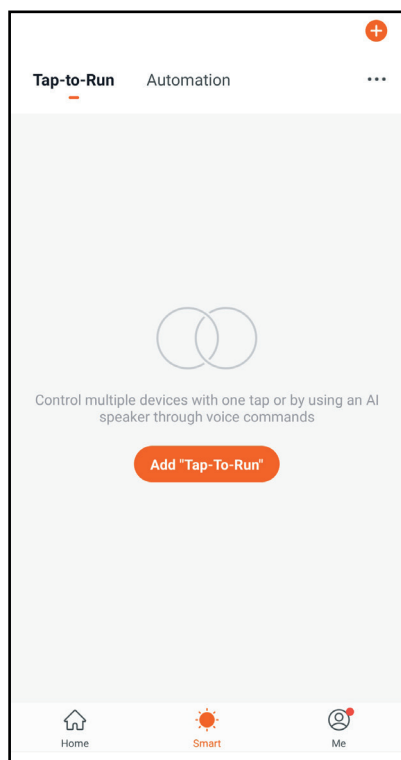
USE VIA APP

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

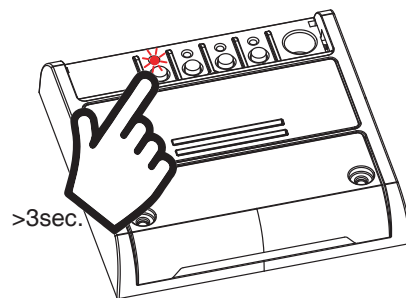
This procedure let you take the control unit back to factory settings.

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

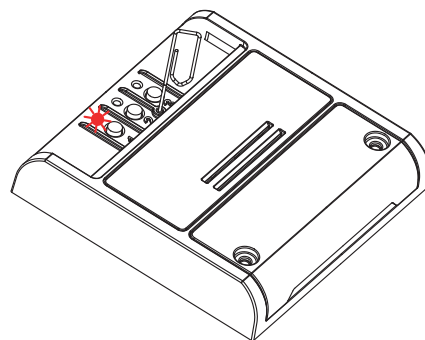
Hold the receiver button P1 down (about 4 seconds.) until the LED begins to Flash.



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

CE



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V1.0