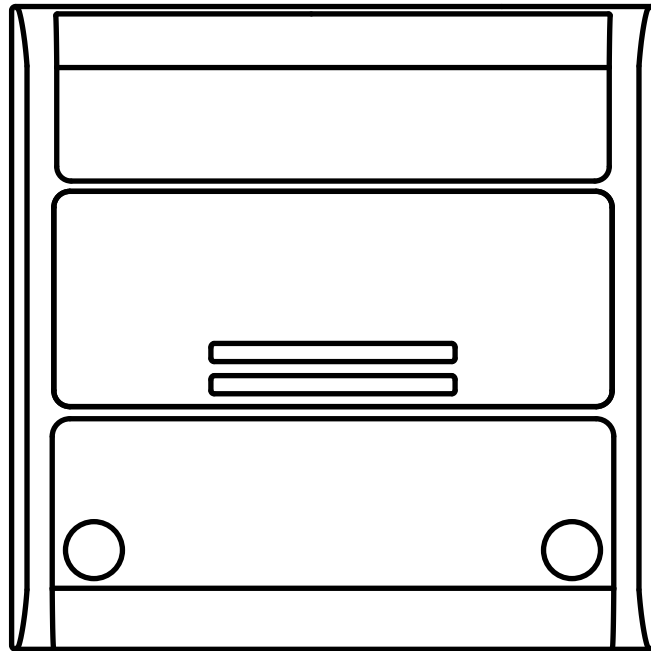# **PLANO**-ONE/4

OneSmart

note: voice control compatibility
is only available where 4
synchronised outputs are set

**Universal control unit for single colour constant voltage LEDs 12-24Vdc, selectable software for outputs number.
Power supply 12-24Vdc, Max 5A /output (max 10A total).
Integrated 433.92 MHz radio receiver.
WiFi connection for OneSmart App.**

INDEX

1 - PRODUCT FEATURES

1.1 TECHNICAL DATA

Power supply (Input)	12 - 24 Vdc
LED type (Output)	Constant tension single color LED
Max power load (Output)	5A per output, max 10 A total (4 outputs)
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

Button 2

Led

Button 1

Hidden key

Connectors cover

80

80

16
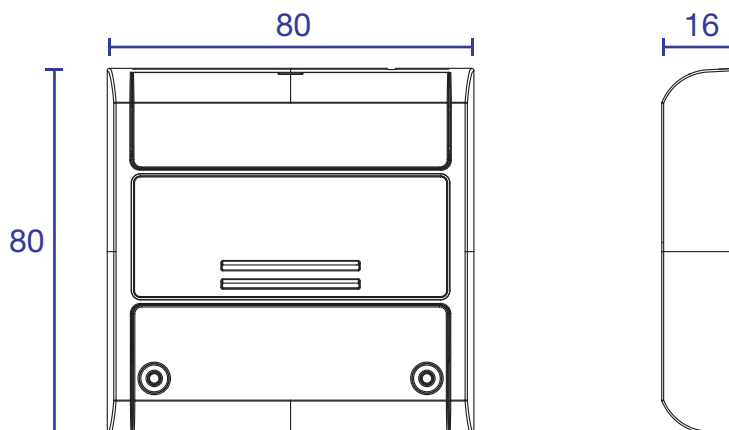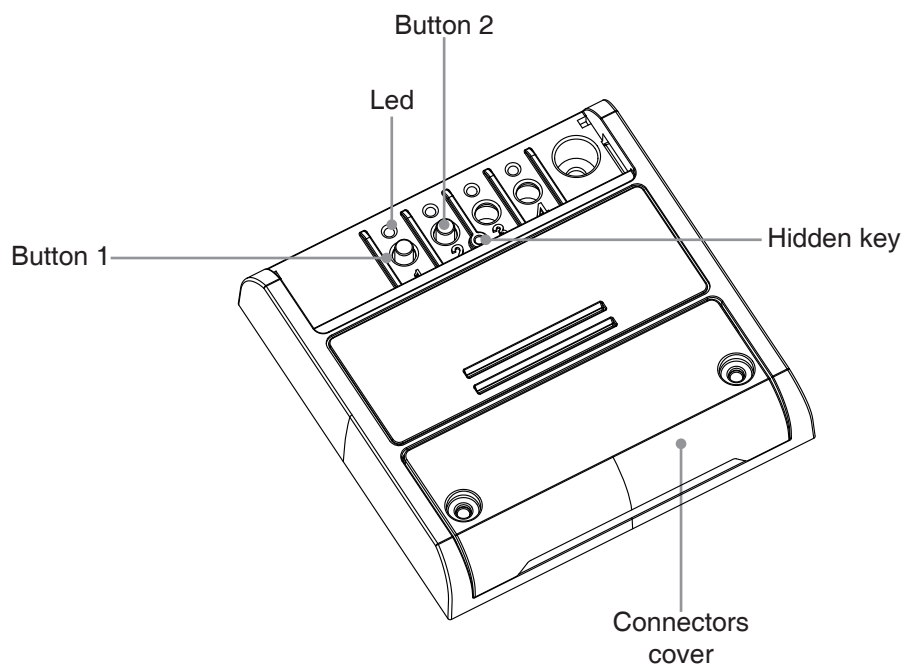
2 - CONNECTION DIAGRAMS

This control unit can manage 1, 2, 3 or 4 lines of single-colour LED strip lights. By default, operation is set to two single-colour strip lights. If a different strip type is used, follow the paragraph 3 procedure.

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 SINGLE-COLOR CONNECTION DIAGRAM

The control unit is set by default to manage two lines of single-colour strip lights.
To change the setting, follow the procedure in paragraph 3.
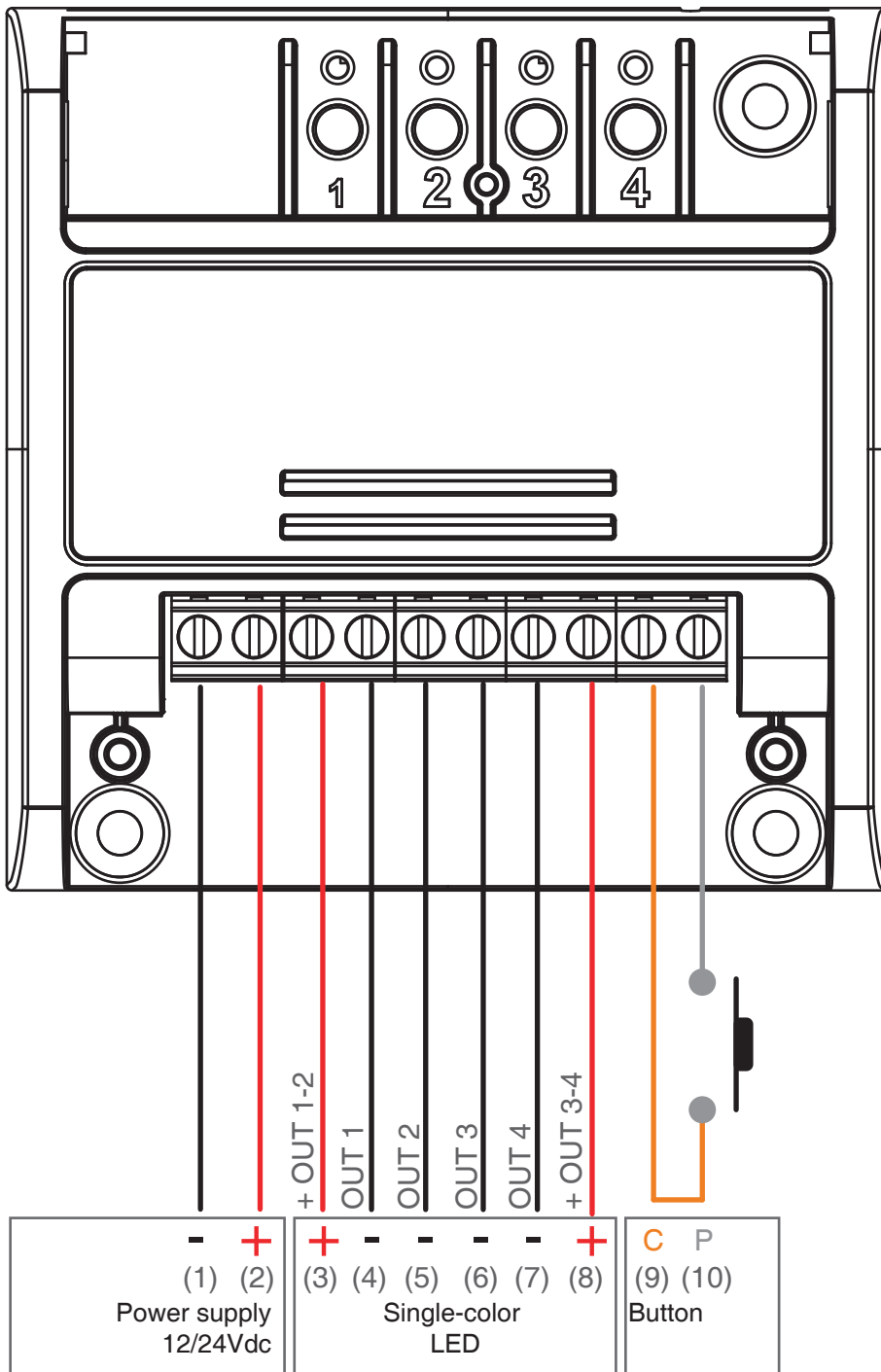
USE VIA WIRE
SHORT PRESS:
On-Off for all lights
LONG PRESS:
Up/down dimmer for all lights

WARNING:

- Connect up to 5A per output and max total 10A
- The outputs are synchronized

2.2 CONNECTING TWO LINES OF SINGLE-COLOUR STRIP LIGHTS

By default, operation is set to two single-colour strip lights.

-	+	+	-	-	-	-	+	C	P
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Power supply 12/24Vdc		LED line 1			LED line 2			Button	

+ OUT 1-2, OUT 1, OUT 2, OUT 3, OUT 4, + OUT 3-4

WARNING:

- Connect up to 5A per output and max total 10A
- The operation of outputs 1 and 2 (terminals 4 and 5) is synchronised.
- The operation of outputs 3 and 4 (terminals 6 and 7) is synchronised.

USE VIA WIRE

SHORT PRESS: On-Off for all lights

LONG PRESS: Up/down dimmer for all lights

2.3 CONNECTING THREE LINES OF SINGLE-COLOUR STRIP LIGHTS

The control unit is set by default to manage two lines of single-colour strip lights.
To change the setting, follow the procedure in paragraph 3.

		+ OUT 1-2	OUT 1	OUT 2	OUT 3	+ OUT 3	C	P
−	+	+	−	−	−	+	C	P
(1)	(2)	(3)	(4)	(5)	(6)	(8)	(9)	(10)
Power supply 12/24Vdc		3 lines of single-colour LEDs individuellement					Push button	

WARNING:
- Connect up to 5A per output and max total 10A
- The outputs operate separately.

USE VIA WIRE

SHORT PRESS: On-Off for all lights
LONG PRESS: Up/down dimmer for all lights

2.4 CONNECTING FOUR LINES OF SINGLE-COLOUR STRIP LIGHTS

The control unit is set by default to manage two lines of single-colour strip lights.
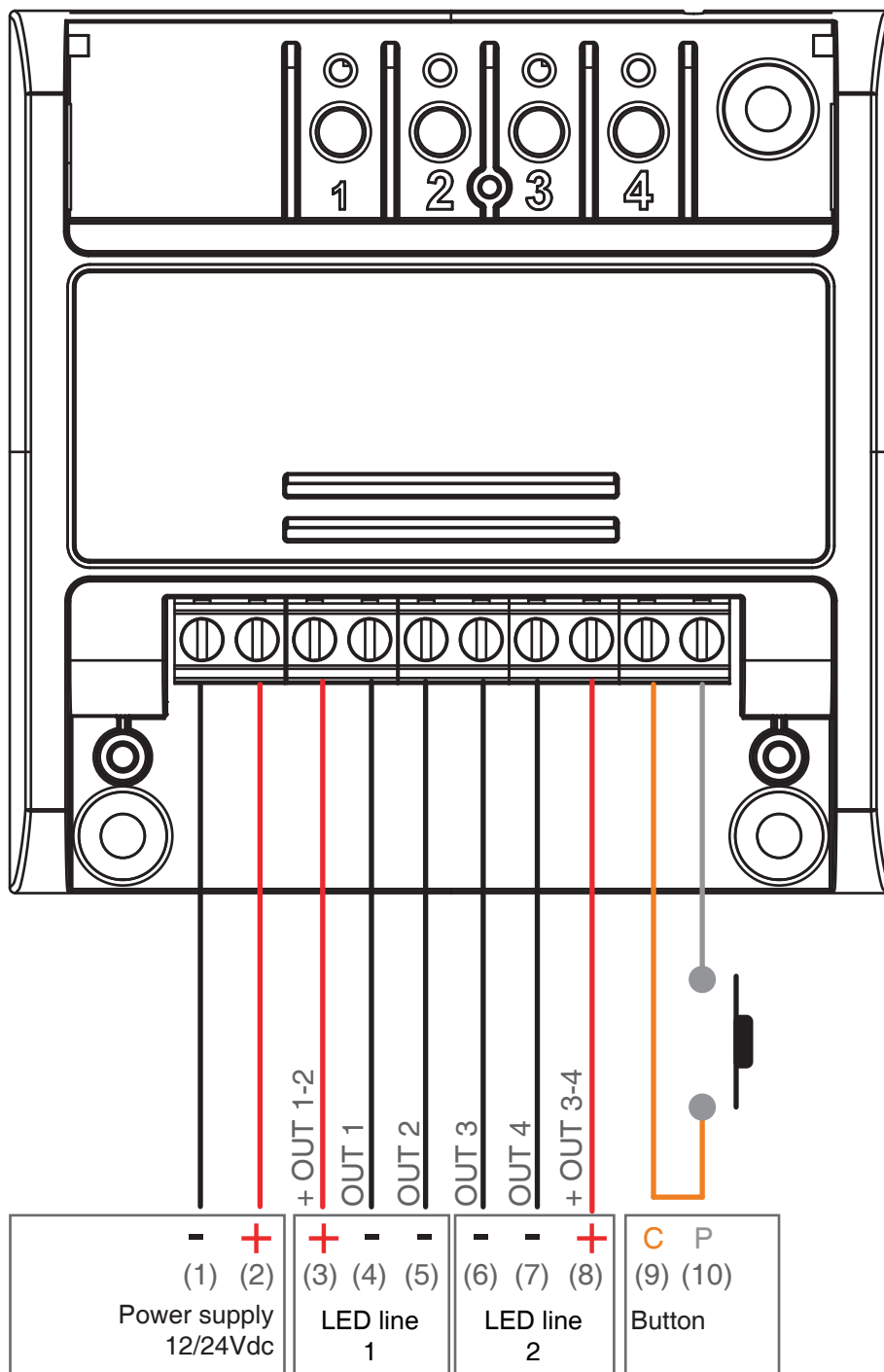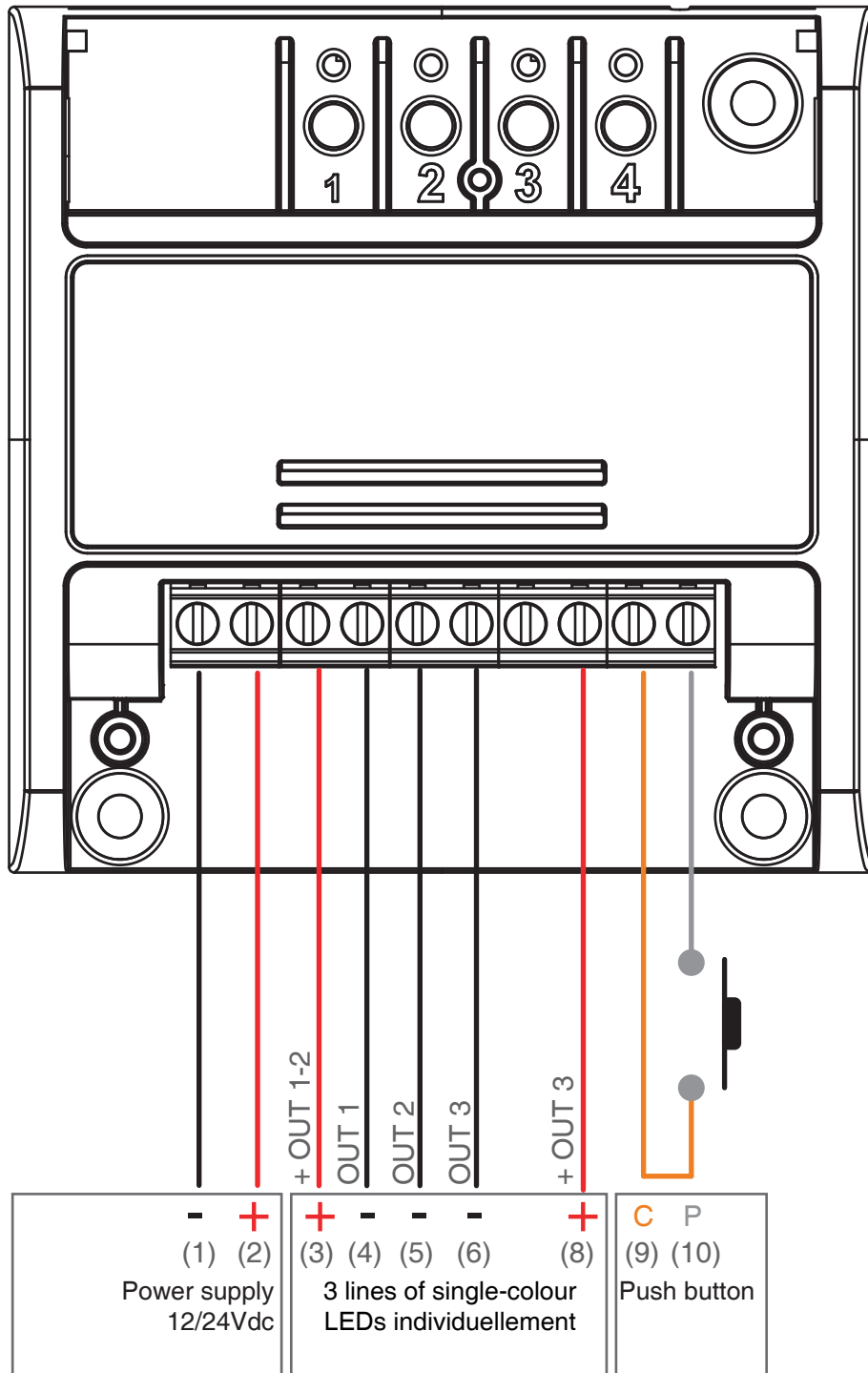To change the setting, follow the procedure in paragraph 3.

-	+	+	-	-	-	-	+	C	P
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Power supply 12/24Vdc		4 lines of single-colour LEDs managed separately						Push button	

WARNING:

- Connect up to 5A per output and max total 10A
- The outputs operate separately.

USE VIA WIRE

SHORT PRESS: On-Off for all lights
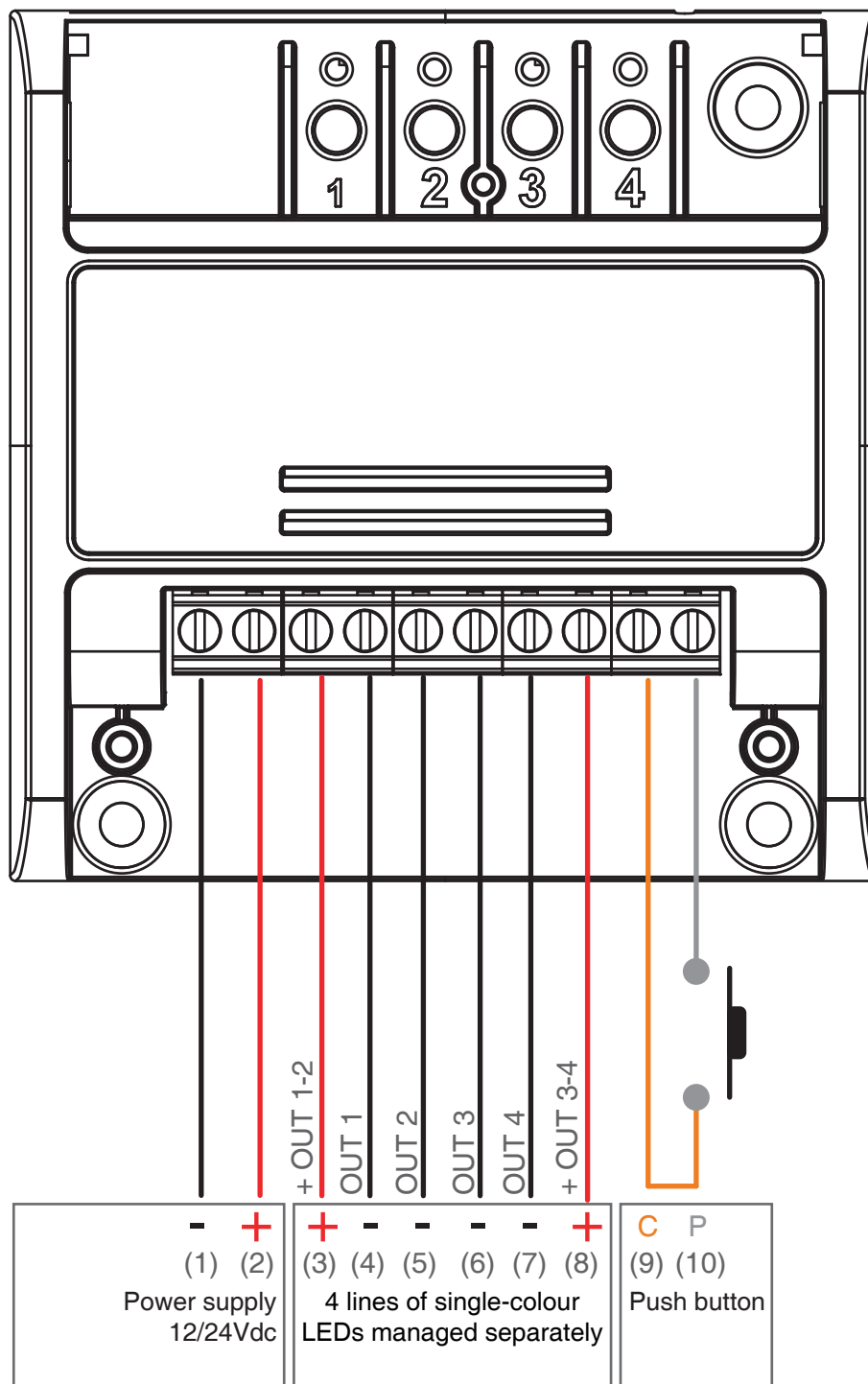LONG PRESS: Up/down dimmer for all lights

3 - LOAD TYPE SETTING

Default: One line of single-colour LEDs.
This procedure allows you to change the type of the connected LED.

WARNING:
- The procedure of connection with the OneSmart APP (see paragraph 6) must be repeated each time the load type is changed.
- The wired button always controls all LED lines in synchronised mode.

3.1 SELECTABLE LED TYPES

1. ONE LINE OF SINGLE-COLOUR LEDS
- The control unit is set to manage 4 lines of single-colour LED strip lights in synchronised mode

2. TWO LINES OF SINGLE-COLOUR LEDS
- La centrale viene impostata per gestire 2 linee di strip led: OUT 1 e 2 in parallelo e OUT3 e 4 in parallelo

3. THREE LINES OF SINGLE-COLOUR LEDS
- The control unit is set to manage 3 lines of LED strip lights: OUT 1, 2 and 3 singularly or in groups

4. FOUR LINES OF SINGLE-COLOUR LEDS
- The control unit is set to manage 4 lines of LED strip lights: OUT 1, 2, 3 and 4 singularly or in groups

ATTENTION : en fonction de la configuration du type de charge, un dimensionnement différent de l'alimentateur peut être nécessaire
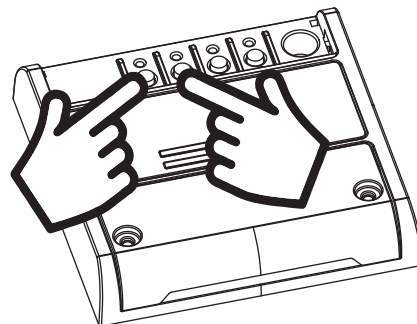
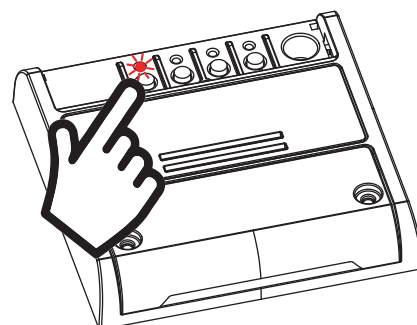## 3.2 - PROCEDURE FOR SETTING THE LED TYPE

PROCEDURE

STEP 1
Press and hold buttons 1 and 2 simultaneously (approximately 2 seconds) until the LED becomes green.

ACTION: Long press of buttons 1 and 2   **LED:** green

STEP 2
Make a short press of button 1 on the receiver and count the number of LED Flashes.

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

NUMBER OF FLASHES	NUMBER OF LINES MANAGED SEPARATELY	DESCRIPTION
1	1	4 single-colour LED strip lights in synchronised mode.
2	2	2 lines of single-colour LED
3	3	3 lines of single-colour LED
4	4	4 lines of single-colour LED

STEP 3
Press the button P1 during the during the Flash that corresponds to the function desired to end the count.

The yellow LED on the board blinks a number of times corresponding to the set function
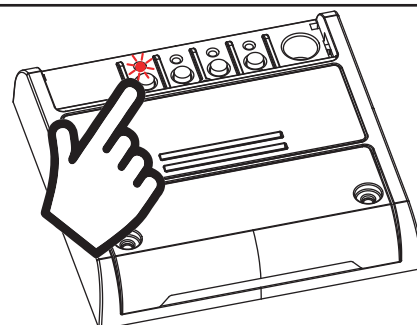
ACTION: Short press button 1   **LED:** yellow blinking

WARNING: if no setting is confirmed during step 3, the control unit mantains the load type previously set.

4 - USE OF THE CONTROL UNIT

4.1 TYPICAL INSTALLATION

The system can be controlled by a wired push button, radio commands, smartphone App OneSmart or voice commands.
The installation can operate with only radio controls or application only.
Instead, to use voice commands, at least the App configuration must be completed.
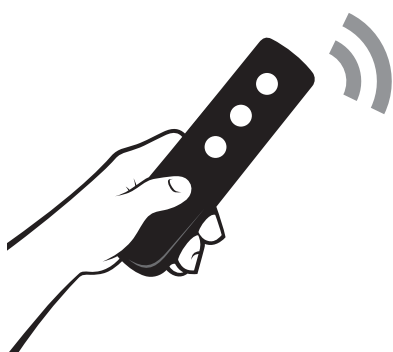
NEXTA CONTROL UNIT

**RADIOTRANSMITTER
CONFIGURATION**
See paragraph 5
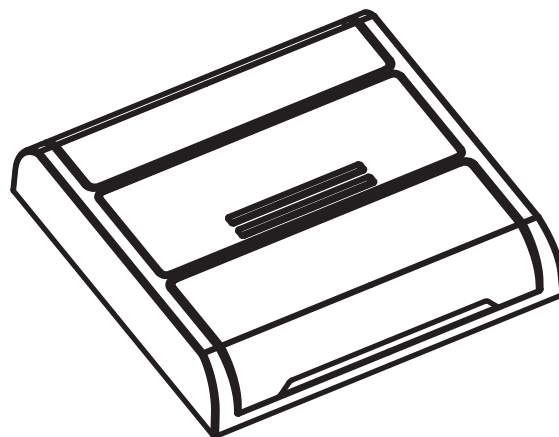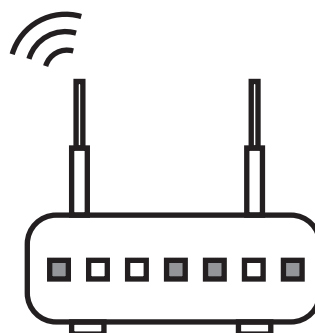
**ROUTER WITH INTERNET
CONNECTION**

**APP CONTROL
CONFIGURATION**
See paragraph 6

**VOICE CONTROL
CONFIGURATION**
See paragraph 7

note: voice control compatibility is
only available where
4 synchronised outputs are set

4.2 USE VIA WIRE
The wired button always controls all connected LED lines for the On/Off function (press and release) and the Up/Down dimmer (press and hold).

4.3 USE VIA RADIO
To control the loads via radio you must have compatible transmitters and therefore must carry out the association procedure, see paragraph 5.

4.4 USE VIA SMARTPHONE APP ONESMART
The configuration procedures described in paragraph 6 above must be followed to control the lights by smartphone App.

4.5 USE WITH VOICE CONTROL
The configuration procedures described in paragraph 7 above must be followed to control the lights by voice commands.
note: voice control compatibility is only available where 4 synchronised outputs are set

5 - MANAGEMENT WITH REMOTE CONTROL

This procedure lets you programme/delete compatible multifunctional or generic (Wireless bus) transmitters.

Multifunctional transmitters:
With multifunctional transmitters the transmitter control modes depend on the model used.
Refer to the transmitter manual, to the paragraph entitled "commands sent by the transmitter", bearing in mind that:
this is a dimmer device.

Generic (wireless bus) transmitters:
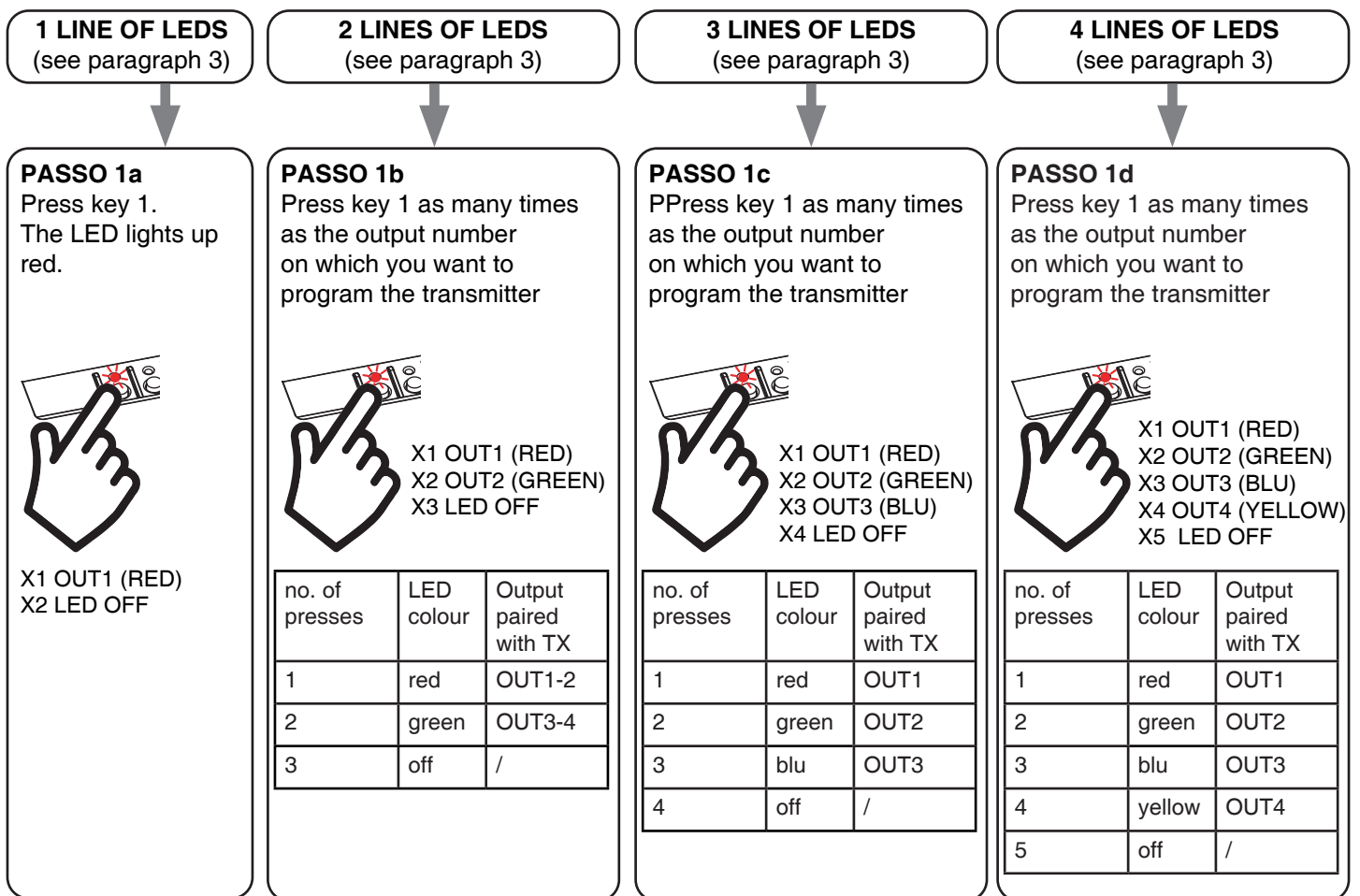With generic transmitters, the function of the button is:
SHORT PRESS: On/Off
LONG PRESS: dimmer Up/Down
The functions of the generic transmitters can be customized using the procedure in paragraph 8.1.

5.1 - RADIO PROGRAMMING
This procedure lets you programme compatible multifunctional or generic transmitters.
Depending on the number of lines of LED strip lights set with the procedure in paragraph 3, the remote control can be programmed for the active outputs.

| 1 LINE OF LEDS (see paragraph 3) | 2 LINES OF LEDS (see paragraph 3) | 3 LINES OF LEDS (see paragraph 3) | 4 LINES OF LEDS (see paragraph 3) |

PASSO 1a
Press key 1.
The LED lights up red.

X1 OUT1 (RED)
X2 LED OFF

PASSO 1b
Press key 1 as many times as the output number on which you want to program the transmitter

X1 OUT1 (RED)
X2 OUT2 (GREEN)
X3 LED OFF

no. of presses	LED colour	Output paired with TX
1	red	OUT1-2
2	green	OUT3-4
3	off	/

PASSO 1c
PPress key 1 as many times as the output number on which you want to program the transmitter

X1 OUT1 (RED)
X2 OUT2 (GREEN)
X3 OUT3 (BLU)
X4 LED OFF

no. of presses	LED colour	Output paired with TX
1	red	OUT1
2	green	OUT2
3	blu	OUT3
4	off	/

PASSO 1d
Press key 1 as many times as the output number on which you want to program the transmitter

X1 OUT1 (RED)
X2 OUT2 (GREEN)
X3 OUT3 (BLU)
X4 OUT4 (YELLOW)
X5 LED OFF

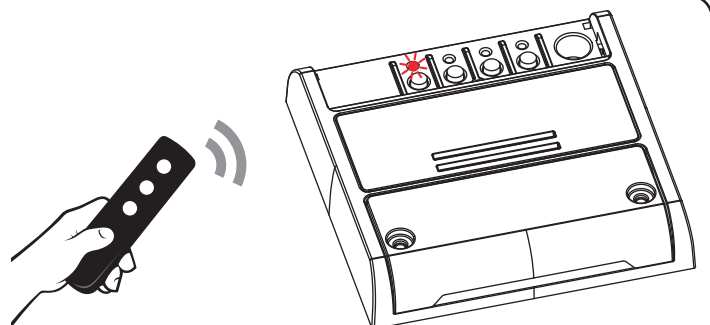| no. of presses	LED colour	Output paired with TX
1	red	OUT1
2	green	OUT2
3	blu	OUT3
4	yellow	OUT4
5	off	/

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.
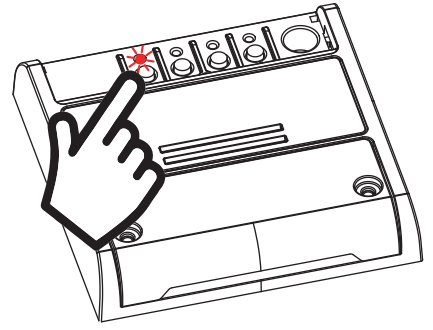The led makes 3 Flashes and turns off.

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

5.2 - 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
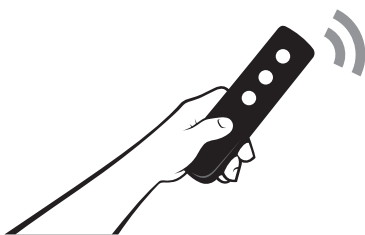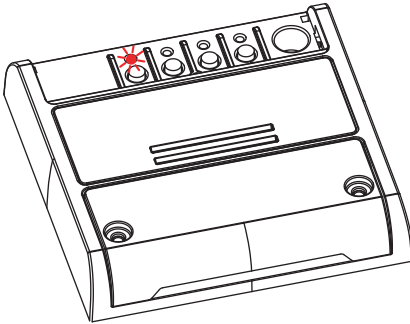LED begins to Flash.

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

**DELETION OF SINGLE
TRANSMITTER**

**DELETION OF ALL
TRANSMITTER SAVED**

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

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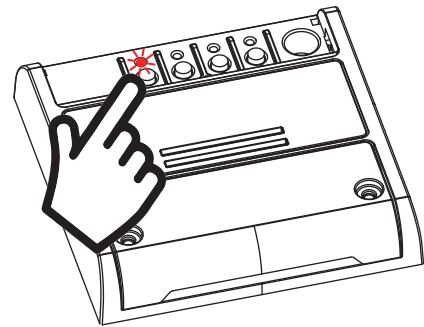
ACTION: Short press of button 1
LED: Flashing quickly and turns off

6 - 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.

6.1 - APP CONNECTION

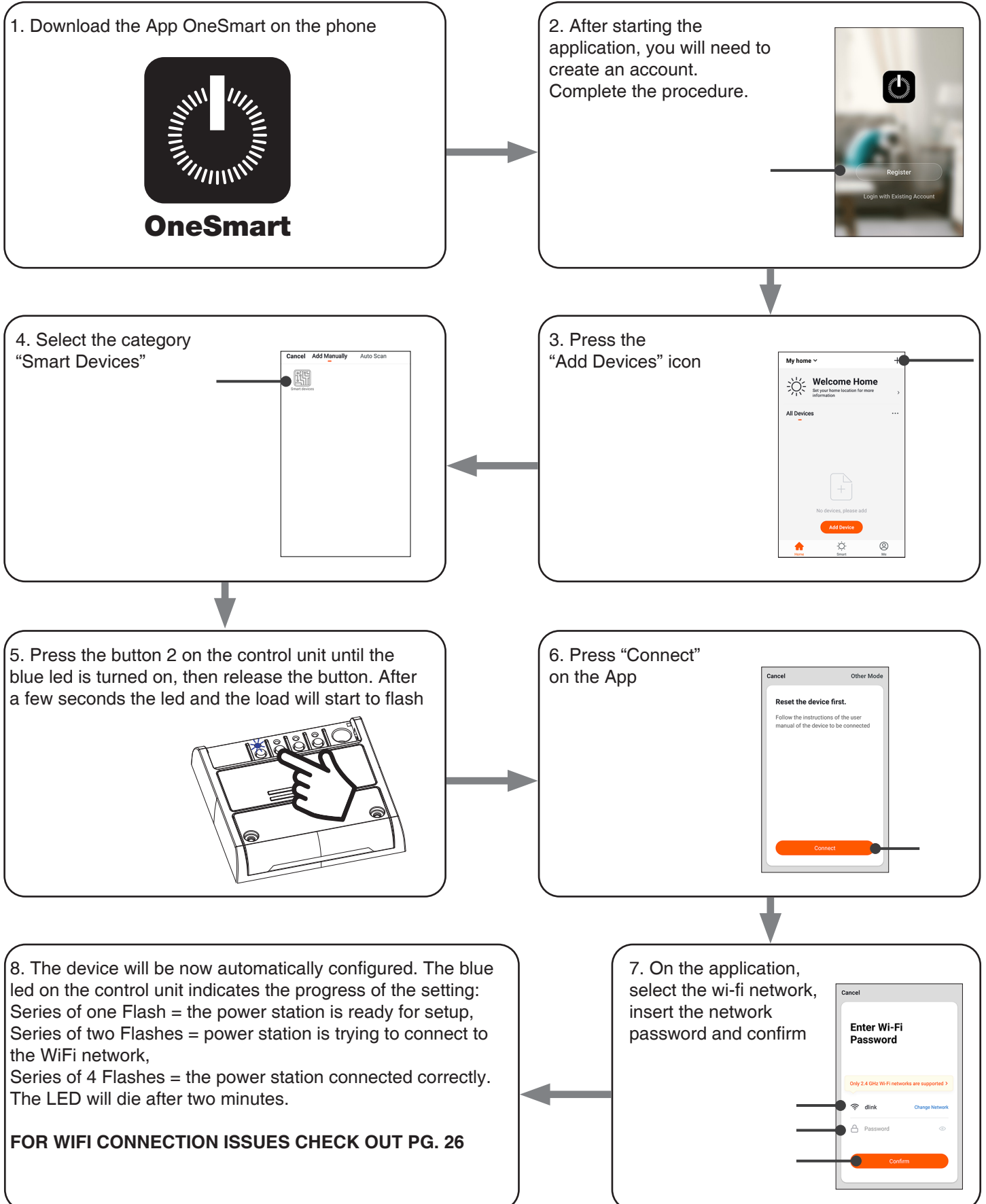This procedure connects the control unit Plano-One to the application. It shall be repeated for each control unit on the installation.
ATTENTION: an internet-based wi-fi network is required for te operation.

---

1. Download the App OneSmart on the phone

OneSmart

---

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

Register
Login with Existing Account

---

4. Select the category "Smart Devices"

Cancel   Add Manually   Auto Scan

Smart devices

---

3. Press the "Add Devices" icon

My home ⌄

Welcome Home
Set your home location for more information

All Devices   ...

No devices, please add
Add Device

Home   Smart   Me

---

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

Cancel   Other Mode

Reset the device first.

Follow the instructions of the user manual of the device to be connected

Connect

---

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. 26

---

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

Cancel

Enter Wi-Fi Password

Only 2.4 GHz Wi-Fi networks are supported >

dlink   Change Network

Password

Confirm

6.2 - USE OF THE APP ONE SMART
After all the control units have been set up, the installation can be managed by the application.

USE

The "Home" menu (1) shows all the associated devices.
To send a command to a device, select it.

Pressing "Smart" (2) allows you to add actions on your devices according to certain conditions and in certain time intervals, there are two types of actions:

- Automation (3): One or more actions happen if one or more conditions are satisfied
- Tap-to-Run (Scenario) (4): performs one or more actions by pressing an app button

EXAMPLES OF SCENARIOS (TAP-TO-RUN):
- Total off (switch off all the lights in the house)
- Scenario Soft (Dimming the desired lights at low intensity level)

EXAMPLES OF AUTOMATIONS:
- Hourly and weekly programs
- Turn on the lights at the sunshine, turn off the lights at the sunrise.

Pressing "Me" (5) for entering to home and account settings.
From this menu, you can add members to the home for sharing device management or creating new houses.

PROCEDURE PFOR ADDING NEW USERS/MEMBERS.
1- From the "ME" menu (5), select "Home Management" (7) and then go to the house configurations and find "Add Member"
2- Insert the "OneSmart" account you want to add (email or mobile phone number of the new member), the new member will receive a notification of the invitation.

WARNING:
- The new user must have already downloaded the "OneSmart" application and created an account.
- Both the 'administrator' and the 'new user' must have set the same 'region' (Country).
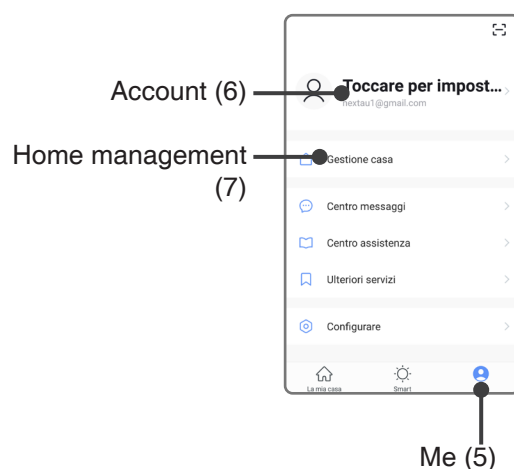- (Go to "Account (2)-Account and Security-Region" to view and change the set country).

Home (1)   Smart (2)

Automations(3)
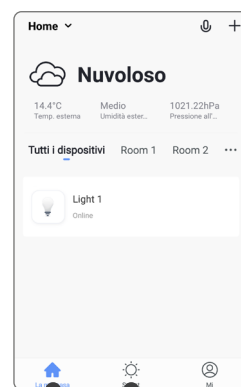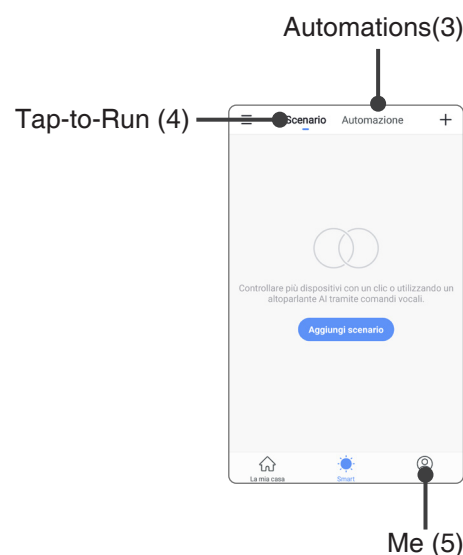
Tap-to-Run (4)

Me (5)

Account (6)

Home management (7)

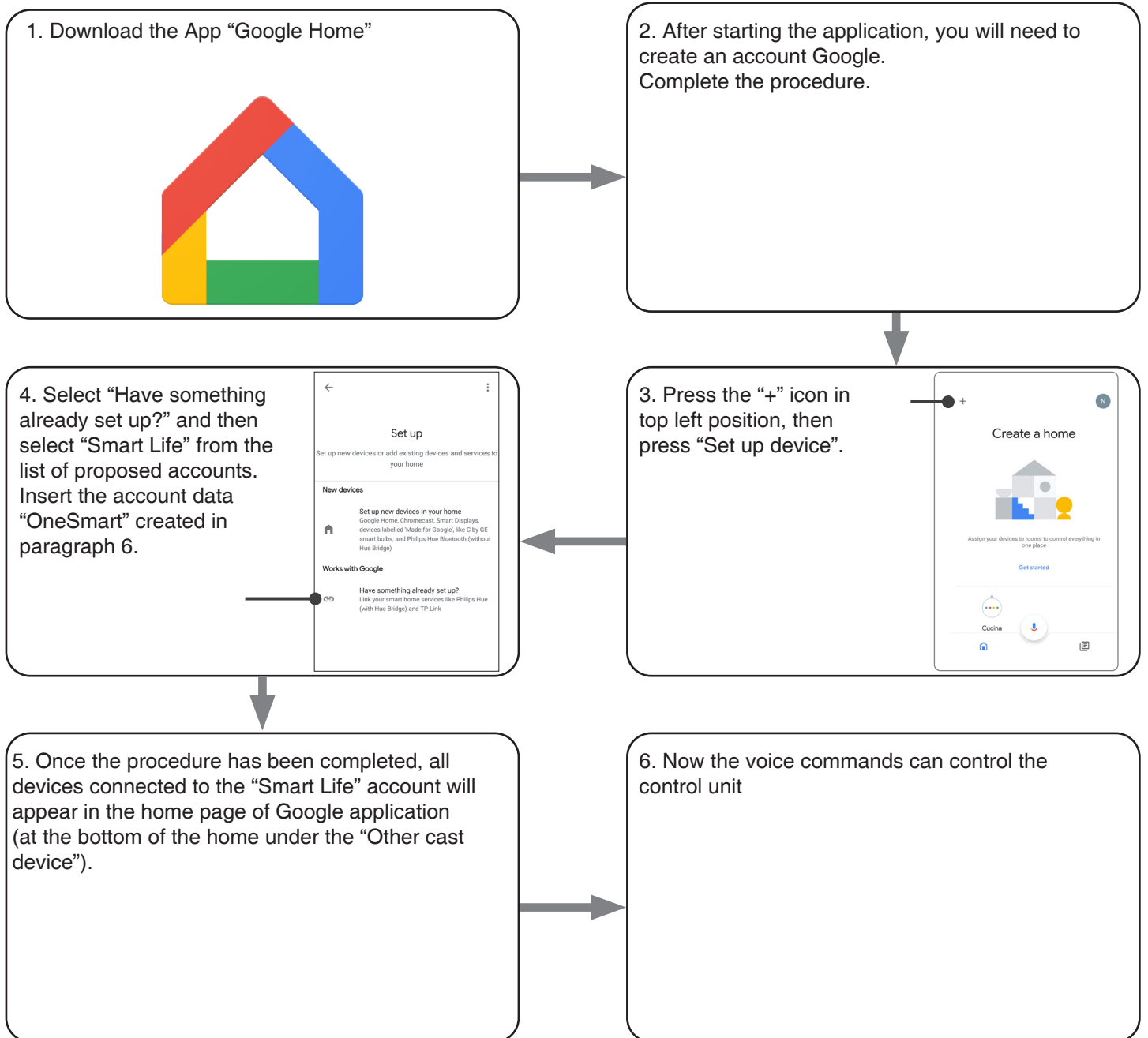Me (5)

7 - 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.

NOTE: voice control compatibility is only available where 4 synchronised outputs are set

7.1 - 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.

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.

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

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.

USE OF "GOOGLE HOME"

SENDING VOICE COMMANDS
Using your Android mobile phone (or tablet), voice commands can already be sent via the native assistant.
By using an Apple device, you can use the microphone within the Google Home application.If you want to add a voice recognition device such as "Google Home Mini" or "Google Home", follow the procedures to match it to the house you created and then they will be associated with the lights.

VOICE COMMAND LIST
Here below there are some examples of dedicated voice commands for lights:

DIMMER / RGB(W) / CCT TUNABLE WHITE

OK Google, Turn on / Turn Off *name of the device* or *name of the room*
OK Google, Turn on / Turn Off the lights
OK Google, set the light to 50%
OK Google, reduce the light
OK Google, turn off all the lights

RGB(W)

OK Google, transforms the light *light name* or *room name* green.
OK Google, set the *light name* or *room name* red

CCT TUNABLE WHITE

OK Google, Hot White
OK Google, Cold White
OK Google, Ancient White
OK Google, Smoke White
OK Google, Phantom White

USE OF ROUTINES
The Nexta control unit is compatible with Google routine.
The Google Home application allows you to create some vocal commands to be associated with one action or sequence of actions.
This allows you to create scenarios, but also allows you to customize the command to get a certain action.

EXAMPLES OD SCENARIOS
OK Google, Dark!   Turn off all the lights
OK Google, Movie!   Turn off some lights and soft dimming of other lights

EXAMPLES OF CUSTOMIZED COMMANDS
OK Google, Dark!   Turn off the light
                               (corresponds to the native "Turn off *light name*" command)

7.2 - COONECTION TO "AMAZON ALEXA"
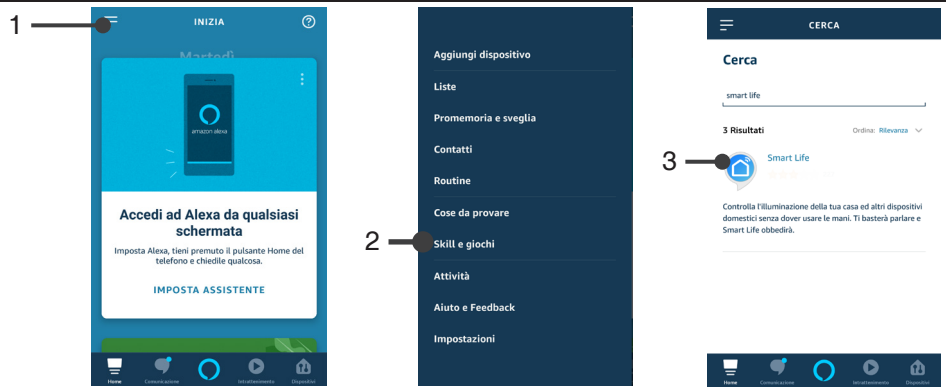
PROCEDURE
WARNING: before proceeding with this procedure, you must have set up the "OneSmart" account, see paragraph 6.

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

USE OF "AMAZON ALEXA"

SENDING VOICE COMMANDS
Using your Android mobile phone (or tablet), voice commands can already be sent via the Amazon Alexa application.
Using an Apple device, you can use the microphone inside the Amazon Alexa application.
If you want to add a voice-control device like "Echo Dot" or "Echo Plus", follow the procedures to match it to the house you created, and then they will be associated with the lights.

EVOICE COMMAND LIST
Here below there are some examples of dedicated voice commands for lights:

DIMMER / RGB(W) / CCT TUNABLE WHITE

Alexa, Turn on / Turn Off *name of the device* or *name of the room*
Alexa, Turn on / Turn Off the lights
Alexa, set the light to 50%
Alexa, reduce the light
Alexa, turn off all the lights

RGB(W)

Alexa, transforms the light *light name* or *room name* green.
Alexa, set the *light name* or *room name* red

8 - ADVANCED PROGRAMS

8.1 FUNCTION CUSTOMIZATION OF THE "WIRELESS BUS" GENERIC TRANSMITTER BUTTONS
The following procedure allows you to set a custom function to the "wireless bus" family transmitter button.

Details on selectable functions.

Function 5 - Memo
Each time the button is pressed, the load will Flash to indicate that the current state of the light is stored.
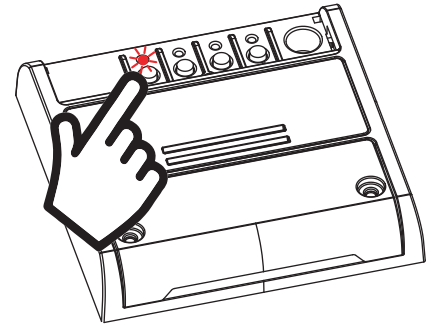If the button is pressed from state "light off", the storage is switched off and the light will be turned back on to the last set value, as it is by default.

PROCEDURE

STEP 1
Press key 1 as many times as the output number on which you want to program
the transmitter

no. of presses	LED colour	Output paired with TX
1	red	OUT1
2	green	OUT2
3	blu	OUT3
4	yellow	OUT4
5	off	/

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

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

NUMBER OF FLASHES	FUNCTION
1	Off
2	On
3	Short press: On Long press: Dimmer Up
4	Short press: Off Long press: Dimmer Down
5	Memo
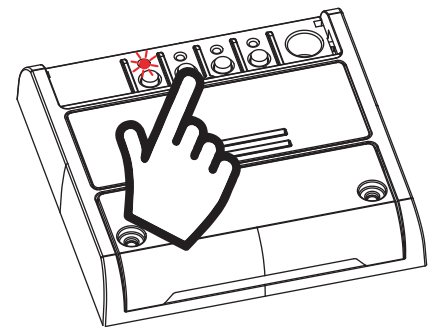
ACTION:
Short press of button 2
LED:
Count the number of Flashes

STEP 3
Press the button for a short time during the Flash that
corresponds to the function desired to end the count.
The led stop Flashes
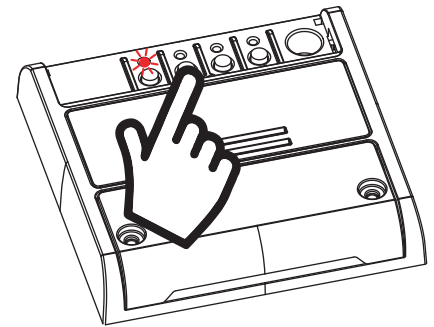
ACTION: Short pressure of button 2 during the Flash   **LED:** Stop Flashes

STEP 4
Make a transmission with the transmitter to be saved
(see transmitter manual, paragraph entitled "transmitter
programming").
The LED on the receiver Flashes 3.times and turns off.
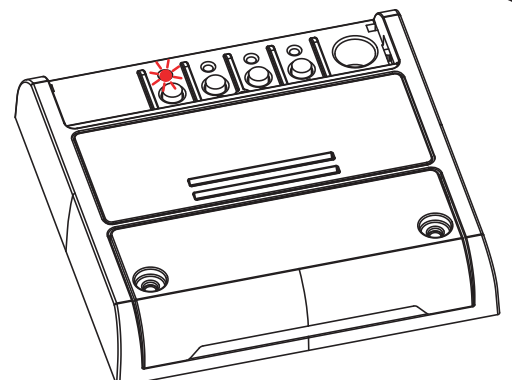
ACTION: Make a transmission with the transmitter   **LED:** Flashes 3 times

8.2 - LOAD STATE WHEN THE CONTROL UNIT IS SWITCHED ON

Default: Last value before the black out

This process is used to set the state of Leds when the control unit is switched on (for example when the power supply is provided by a general switch or timer).
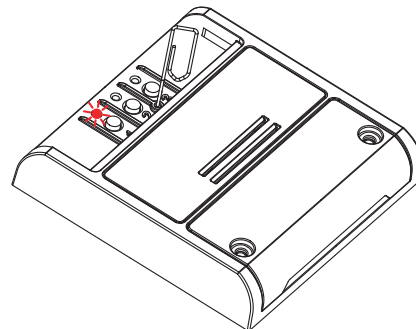
PROCEDURE:

STEP 1

set the light on the desired state.

NOTE: light state cannot be set as off.

STEP 2

With a paper clip make a long press of the "hidden" button.
The LED is cyclically yellow and cyane.
Release the key when the led is yellow.

ACTION: Long press of the "hidden" button   **LED:** Turns on yellow/cyane

STEP 3

Make a short press on button 2 of the receiver.

The led Flashes yellow and turns off.
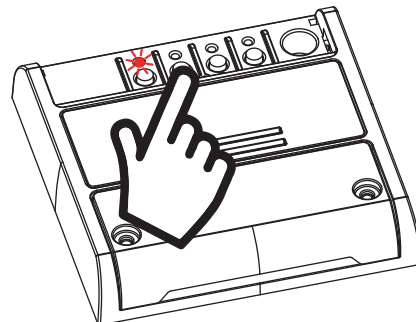
ACTION: Short press of button 2   **LED:** Flashes

* function deactivation

To set up the default value, set the light OFF at step 1 of the procedure

## 8.3 - SETTING THE TIMED ON
Default: 24 hours

This procedure is used to set the time for which the Leds stays on before an automatic switch off.
All commands reset the time count to zero, excluding the following commands that will immediately turn off the light: short press by wired push button, command OFF by radiotransmitter, comand by App or voice.

PROCEDURE

STEP 1
With a paper clip makes a long press of the "hidden" button.
The LED is cyclically yellow and cyane.
Release the key when the led is yellow.
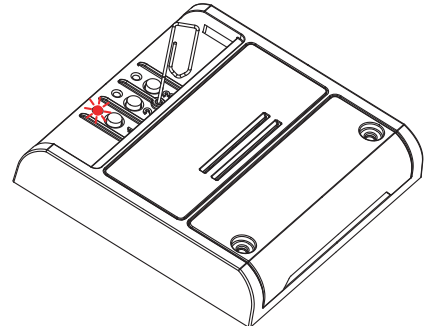
ACTION: Long press of the "hidden" button   **LED:** Turns on yellow/cyane

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 timed on
2	30 seconds
3	1 minute
4	2 minutes
5	5 minutes
6	15 minutes
7	30 minutes
8	1 hour
9	2 hours
10	3 hours
11	8 hours
12	12 hours
13	18 hours
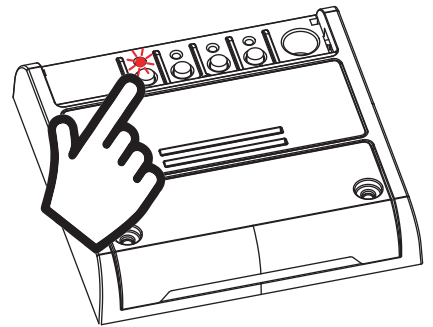
ACTION: Short press of button 1
LED: Count the number of Flashes

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
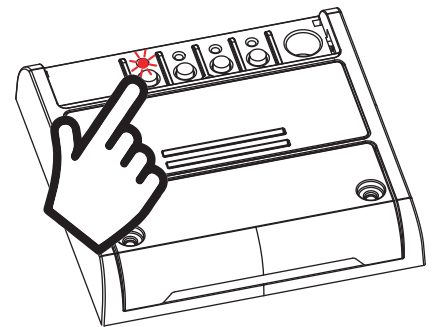
ACTION: Short press of button 1 during the Flashes   **LED:** Turns off
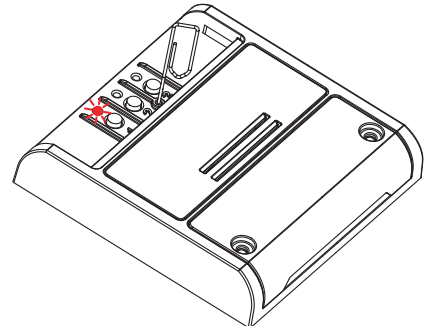
8.4 - SETTING TYPE OF INPUTS VIA WIRE

Default: Button function

This procedure lets you choose the type of wired devices to command load (connected on terminals 9 and 10).
The devices can be set as buttons or switches.
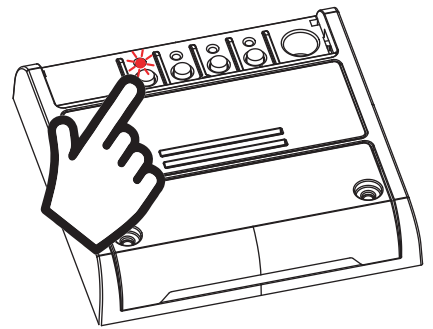
PROCEDURE

STEP 1

With a paper clip makes a long press of the "hidden" button.
The LED is cyclically yellow and cyane.
Release the key when the led is cyane.

ACTION: Long press of hidden button   **LED:** Turns on yellow/cyane

STEP 2

Press the button on the receiver for a short time and count
the number of Flashes emitted by the LED:
3 Flashes = control with buttons
6 Flashes = control with switches

ACTION: Short press of button 2   **LED:** Flashes

STEP 3

To change the setting, repeat the procedure from point 1;
the control unit will alternate between 3 and 6 Flashes

8.4 - 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 (see paragraph 6). To edit or delete also this parameter, reed the procedure.

PROCEDURE

STEP 1

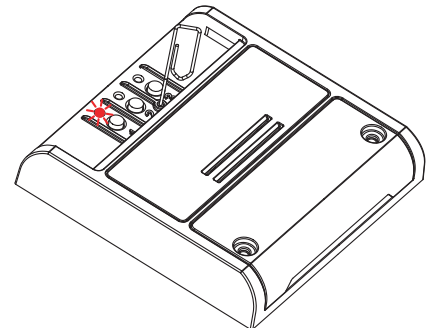Hold the receiver button 1 down (about 5 seconds.) until the LED begins to Flash.
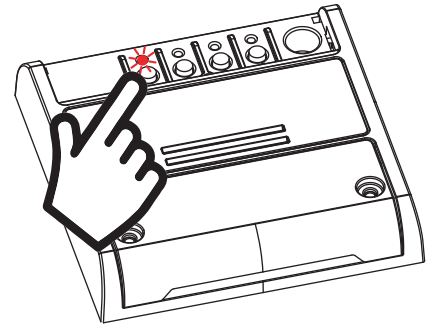
ACTION: Long press of button 1   **LED:** Flashes red

STEP 2

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

ACTION: Make a short press of hidden button   **LED:** the led Flash quicly and turns off

9 - INSIGHTS

9.1 – 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

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