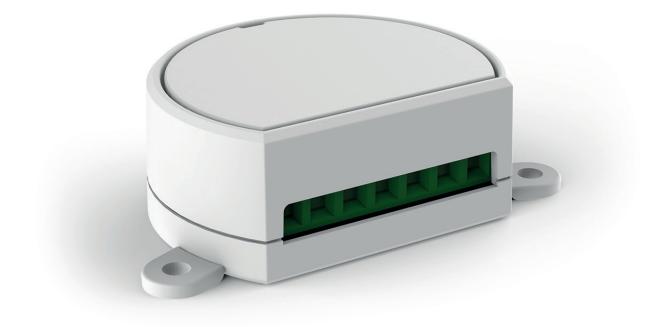


Dimmer for contant voltage single color LEDs 12-24Vdc. Max 5A, RX 433,92MHz and 1 wired input





# **INDEX**

- **1 PRODUCT FEATURES 1.1 - TECHNICAL DATA 1.2 - DESCRIPTION 2 - ELECTRICAL CONNECTIONS** 2.1 - CONNECTION DIAGRAM 2.2 - DESCRIPTION OF CONNECTIONS **3 - USE OF THE CONTROL UNIT** 3.1 - USE VIA RADIO 3.2 - USE VIA WIRE **4 - CONTROL UNIT SETTINGS** 4.1 - FADE SETTING: GRADUAL SWITCH ON 4.2 - FADE SETTING: GRADUAL SWITCH OFF 4.3 - SETTING ADJUSTABLE MINIMUM BRIGHTNESS 4.4 - "SAVE" FUNCTION (BRIGHTNESS LEVEL AT SWITCH-ON) 4.5 - TIMED ON 4.6 - LOAD STATE WHEN THE CONTROL UNIT IS SWITCHED ON 4.7 - FACTORY SETTING **5 - RADIO PROGRAMMING** 
  - 6 DELETION OF TRANSMITTERS
  - 7 FURTHER DETAILS

# WARNINGS

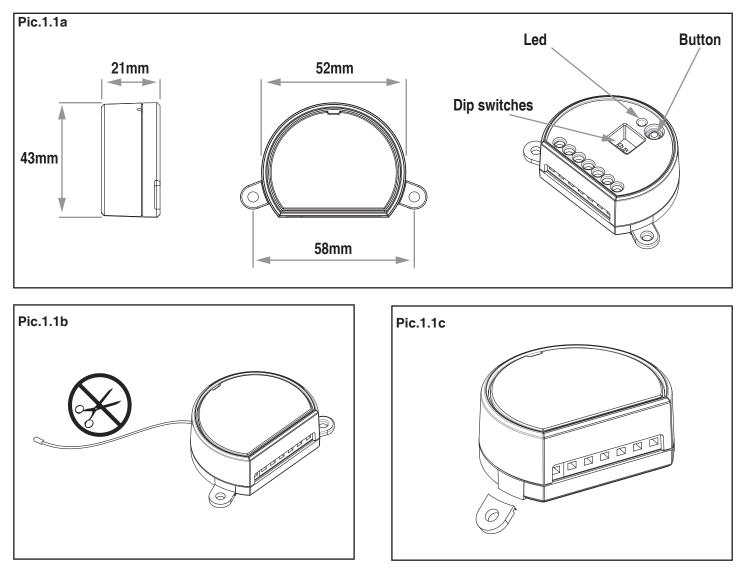
- Installation must be carried out only by qualified technicians in compliance with the electrical and safety standards in force.

- All connections must be made with the power turned off.
- Use suitable cables.
- Do not cut through the aerial (see picture 1.1b)
- A suitably sized disconnection device must be set up on the electric power line that supplies the product.
- Disposal of waste materials must fully respect local standards.

# **1 - PRODUCT FEATURES**

## **1.1** TECHNICAL DATA

Power supply	12-24 Vdc	
Output	Max load 5A:	
	60 W (with 12Vdc) per output	
	120 W (with 24Vdc) per output	
Type of load	Single colour LED with constant	
	voltage	
N° programmable transmitters	30	
Radio frequency	433.920mhz ISM	
Protection rating	IP20	
Operating temperature	-20 +55 °C	
Dimensions	52x43x21 mm	



## **1.2** DESCRIPTION

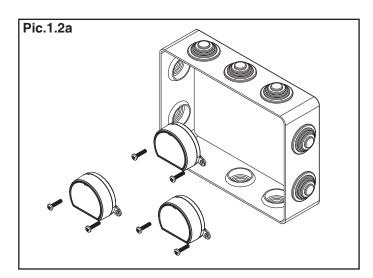
This device is the miniature electronic control unit with dimmer function, for wireless and wired control of singl colour constant voltage LEDs, power supply12-24Vdc and maximum consumption of 5A.

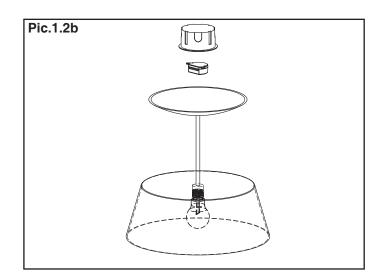
One wired input, Wide-ranging and accurate dimmer function; fade on

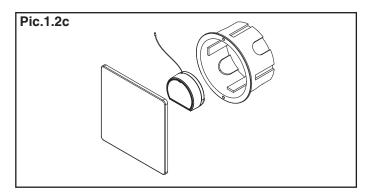
and off that can be setto between 0 and 10 seconds.

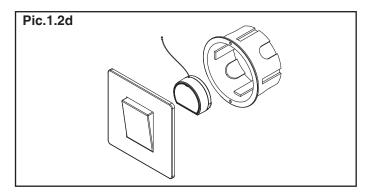
The ISM (industrial, scientific and medical) radio frequency band guarantees a long range, even through walls and ceilings.

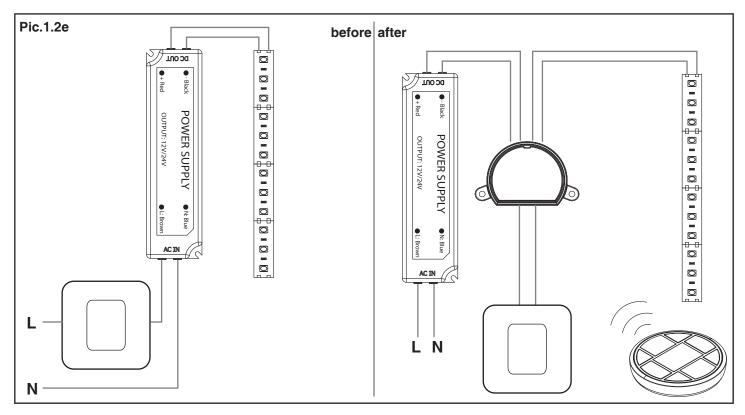
Simple programming with dip-switch, reduced dimensions with breakable tabs for fixing with screws or for insertion into interconnection boxes with 55 mm diameter.





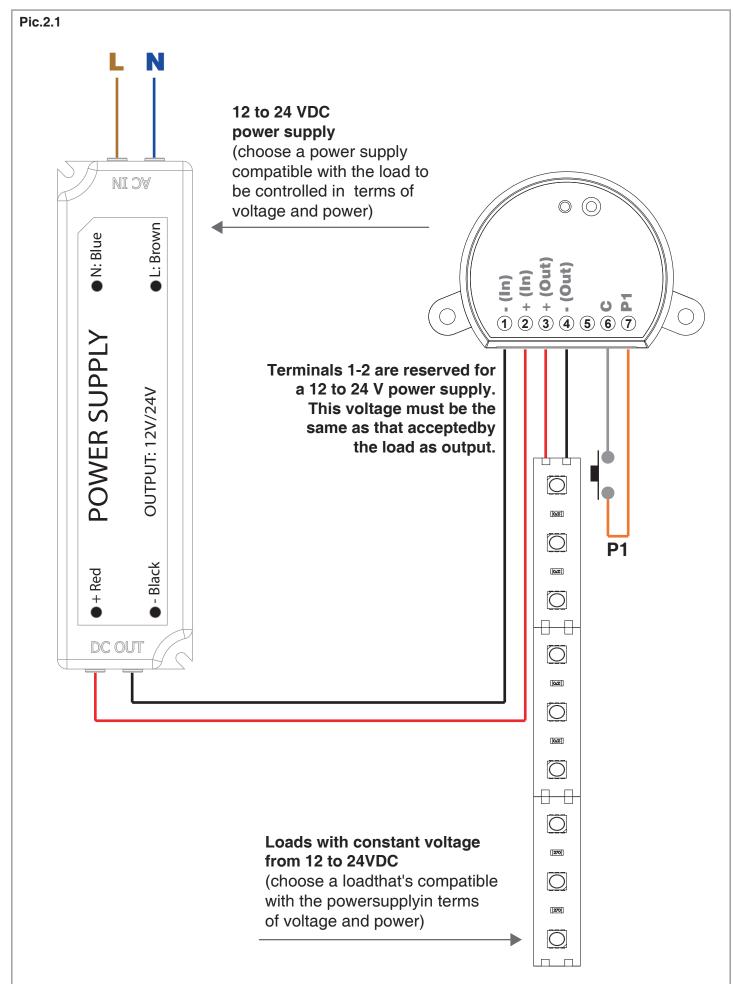






# **2 ELECTRICAL CONNECTIONS**

## **2.1 CONNECTION DIAGRAM**



## **2.2** DESCRIPTION OF CONNECTIONS

- Use wires with a suitable cross-section for the load connected.

Multiple buttons can be connected by using parallel cabling.Multiple buttons or loads can be connected by using parallel

cabling.

TERMINAL	DESCRIPTION	
1	Power supply -	
2	Power supply + (12-24V)	
3	Output +24V	
4	Output -	
5	Not used	
6	Button P1 input	
7	Common for button	

# **3 USE OF THE CONTROL UNIT**

## **3.1** 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.

The transmitter's control modes depend on the transmitter model used.

If the transmitter is of a generic type, its operation depends on the way it is programmed (see paragraph 5, table 5.2a).

If the transmitter is multifunctional, refer to the transmitter manual, to the paragraph entitled

"commands sent by the transmitter", bearing in mind that it is a "dimmer" device.

## **3.2** USE VIA WIRE

The device is set up to accept commands via wire by button in terminals 6 and 7.

Should you want to control the load

only via radio, it is not necessary to connect these devices for the control unit to work properly. The behaviour of the key is shown in the following table:

	LOAD OFF	LOAD ON
INPUT P1: short press	On of load	Off of load
INPUT P1: long press	Dimmer intensity up of load	Dimmer intensity up / Dimmer intensity down of load

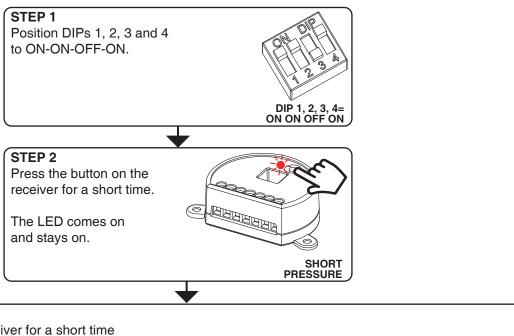
# **4 - CONTROL UNIT SETTINGS**

## **4.1** FADE SETTING: GRADUAL SWITCH ON

Default: 0,5s

This procedure means you can set the duration of the switch-on time.

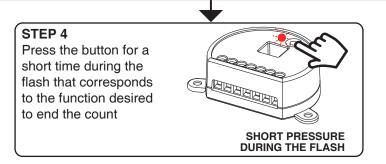
#### PROCEDURE:



#### STEP 3

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

FLASHES	SWITCH-ON TIME	
1 flash	immediate ON	SHORT
2 flashes	ON ~ 0,5s	PRESSUF
3 flashes	ON ~ 2s	C LEIGHEREN
4 flashes	ON ~ 4s	
5 flashes	ON ~ 10s	

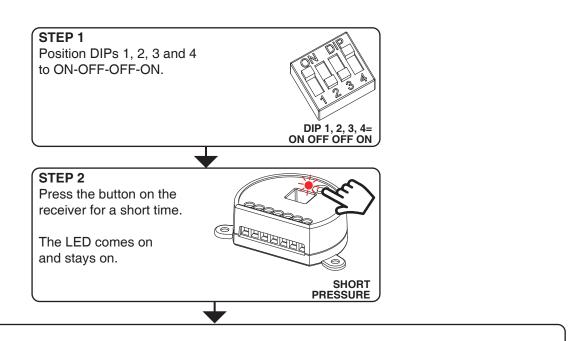


### 4.2 FADE SETTING: GRADUAL SWITCH OFF

Default: 0,5s

This procedure means you can set the duration of the switch-off time.

#### PROCEDURE:



SHORT PRESSURE DURING THE FLASH

#### STEP 3

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

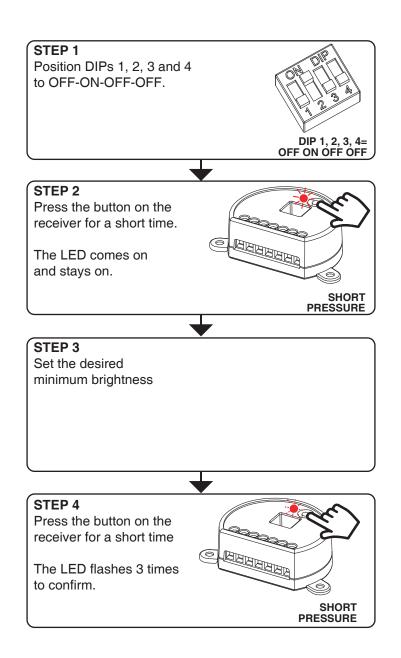
to end the count

FLASHES	SWITCH-OFF TIME	
1 flash	immediate OFF	SHORT
2 flashes	OFF ~ 0,5s	PRESSURE
3 flashes	OFF ~ 2s	
4 flashes	OFF ~ 4s	
5 flashes	OFF ~ 10s	
	STEP 4	
	Press the but short time dur flash that corr to the function	ring the responds

## **4.3** SETTING ADJUSTABLE MINIMUM BRIGHTNESS

This procedure allows you to set the minimum level of brightness at which it is possible to adjust the load.

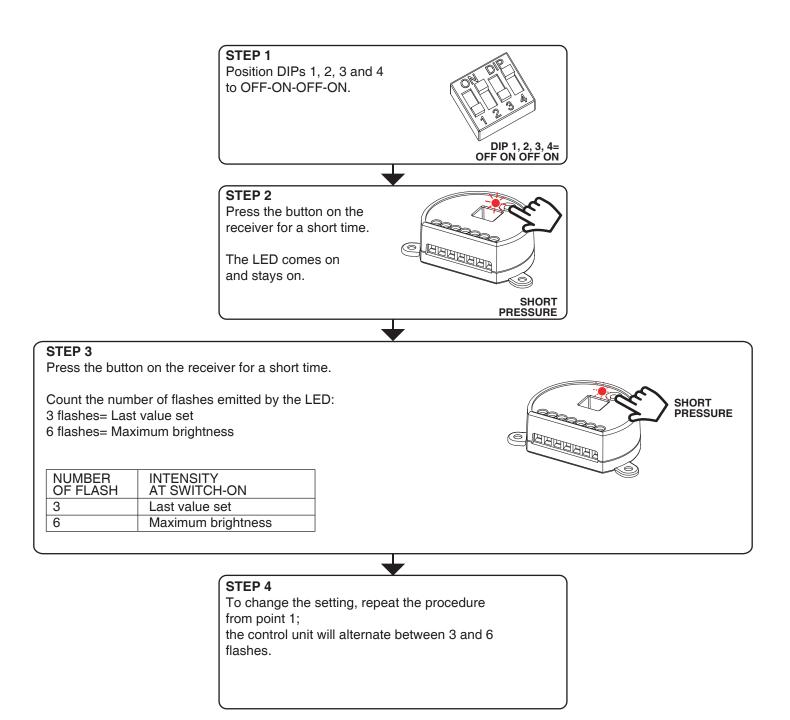
**PROCEDURE:** 



#### **4.4** "SAVE" FUNCTION (BRIGHTNESS LEVEL AT SWITCH-ON)

Default: save not on

#### **PROCEDURE:**

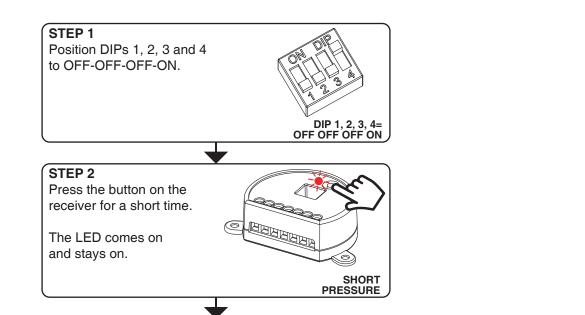


## 4.5 TIMED ON

#### Default: No timing

This process is used to set the time for which the Leds stays on before an automatic switch off.

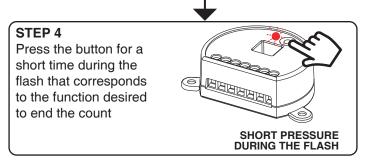
#### PROCEDURE:



#### STEP 3

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

FLASHES	TIMED ON
1 flash	No timing
2 flashes	1 minute
3 flashes	5 minute
4 flashes	15 minute
5 flashes	40 minute
6 flashes	1 hour
7 flashes	2 hours
8 flashes	3 hours
9 flashes	8 hours



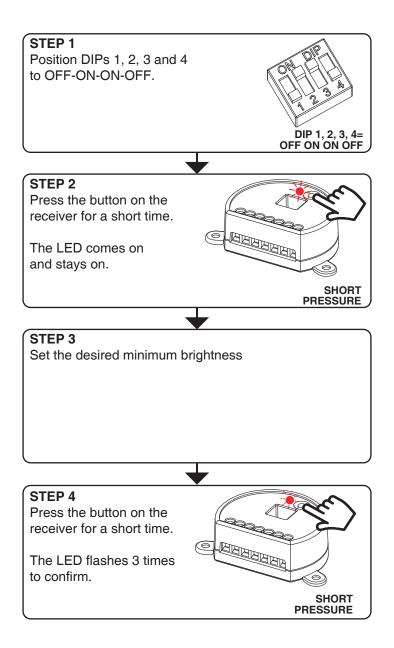
## 4.6 LOAD STATE WHEN THE CONTROL UNIT IS SWITCHED ON

Default: Light Off

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).

WARNING: the setting value can be "light off" in order to set the default.

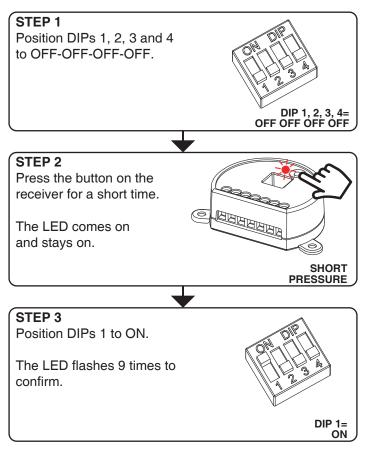
#### **PROCEDURE:**



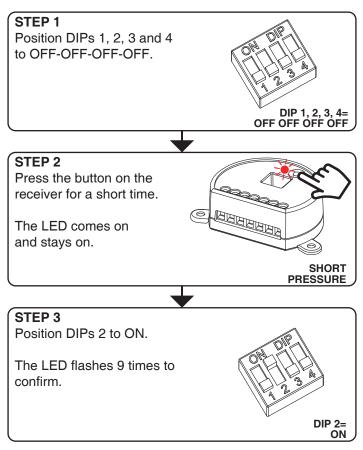
## 4.7 FACTORY SETTING

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

#### FULL RESET OF THE CONTROL UNIT:



#### **RESET PARAMETERS (NO DELETION OF RADIO MEMORY):**



## **5 - RADIO PROGRAMMING**

This procedure lets you programme compatible multifunctional or generic transmitters.

#### WHICH REMOTE CONTROL DO YOU WANT TO ASSOCIATE WITH THE CONTROL UNIT?

#### **MULTIFUNCTIONAL TRANSMITTERS**

#### CODES:

HB70-SLCT, HB70-SPCT, HB80-1C, HB80-1DIM, HB80-2L, HB80-30D, HB80-30RGBW, HB80-4C, HB80-4DIM, HB80-4L, HB90-6LT, ROUND-1SP, SENSA-M, SENSA-P, SENSA-R35M, SENSA-R35P, SENSA-R35T, SENSA-T, TOUCH-1, TOUCH-1CCT, TOUCH-1DIM, TOUCH-1SP, TOUCH-1L, TOUCH-1RGBW, TOUCH-3C, TOUCH-4DIM, TOUCH-CFU

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 it is an "dimmer" device.

#### **GENERIC TRANSMITTERS (WIRELESS BUS)**

#### CODES:

HB80-6G, MCU-TX4, TOUCH-1G, TOUCH-2G, TOUCH-4G, TOUCH-LOCK4, TOUCH-TX2, ROUND-1G

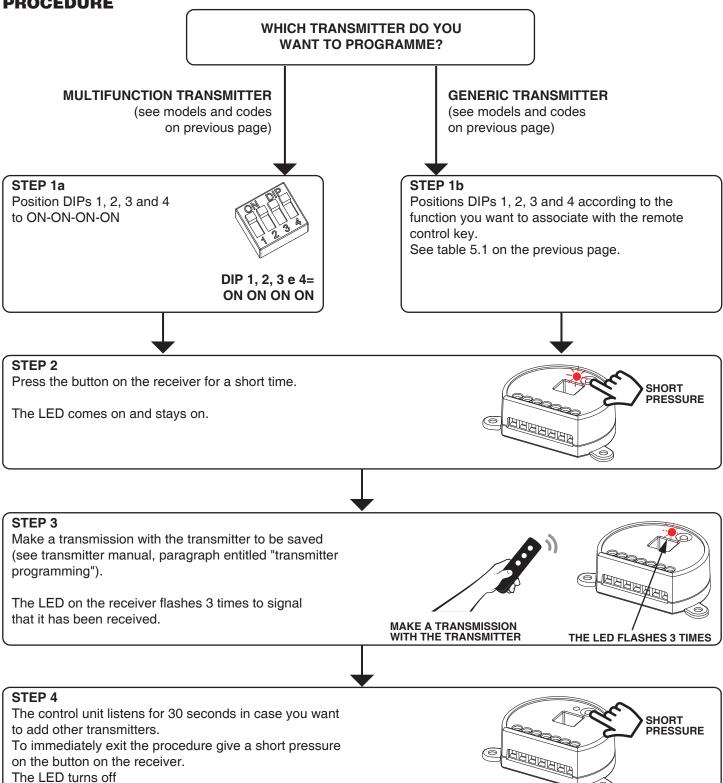
With generic transmitters, the transmitter's control modes depend on the function associated with the key during the association procedure.

The available function for the key are:

TABLE 5.1 KEY FUNCTIONS OF THE GENERIC TRANSMITTER

POSITION OF DIP IN "STEP 1b" OF THE PROCEDURE	KEY FUNCTION	POSITION OF DIP IN "STEP 1b" OF THE PROCEDURE	KEY FUNCTION
DIP: ON ON ON OFF	ON / OFF	DIP: OFF OFF ON OFF	Short pressure= ON Long pressure= DIMMER UP
DIP: OFF ON ON ON	Short pressure= ON / OFF Long pressure= DIMMER UP / DIMMER DOWN	DIP: ON ON OFF OFF	Short pressure= OFF Long pressure= DIMMER DOWN
DIP: OFF OFF ON ON	OFF	DIP: ON OFF OFF OFF	Soft Off 1h: fade off in 1h. (see paragraph 7.1)
DIP: ON OFF ON ON	ON		



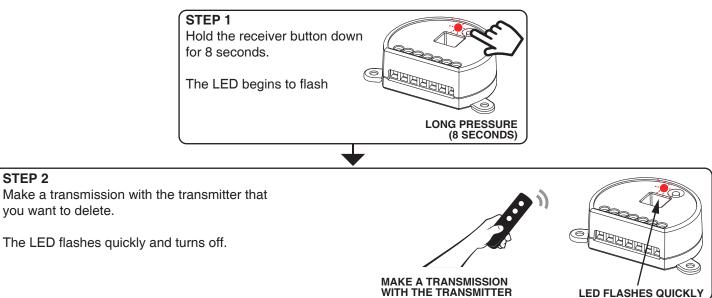


# **6 - DELETION OF TRANSMITTERS**

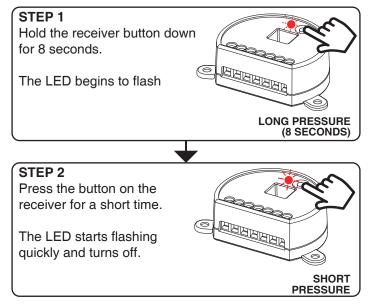
These procedures let you delete from the memory transmitters that have already been programmed.

## **6.1** DELETION OF SINGLE TRANSMITTER

**STEP 2** 



## **6.2** DELETION OF ALL THE SAVED TRANSMITTERS



# **7 FURTHER DETAILS**

The following paragraphs describe the ways the lights connected are commanded and controlled.

## 7.1 "SOFT OFF 1 HR" FUNCTION: FADE OFF

The "Soft off 1 hr" function is a gradual fading off in one hour starting from the colour and intensity set at the time the command was sent.

This function can be activated after adjusting the colour and intensity as desired (via radio or wire):

- VIA RADIO WITH GENERIC TRANSMITTER: with a generic transmitter programmed

with the "soft off 1 hr" function.

This gradual switch-off can be interrupted at any time by the sending of another command via radio or via wire.

# CE

MNLMCUV5ENV1.0

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