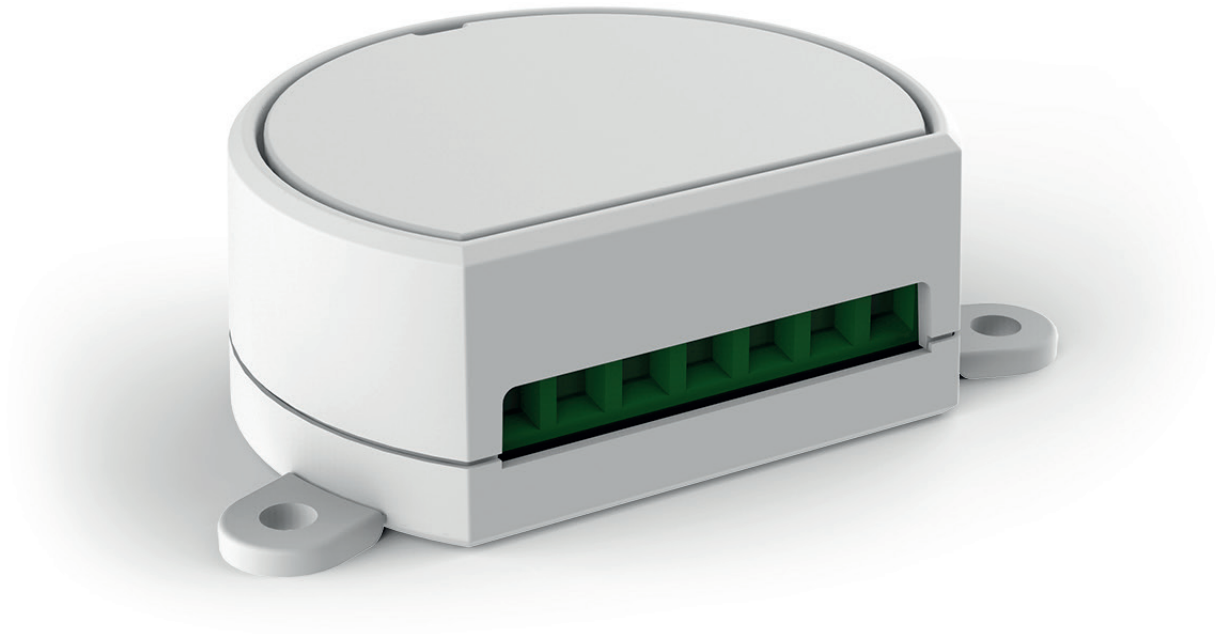
MCU-L1



Control unit for 1 device with power max. 1000 W (230 V). 110/240 VAC power supply, RX 433.92 MHZ integrated ISM, wired input settable with button or switch. On/Off or timer function

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 figure 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.

INDEX

1 - PRODUCT FEATURES

1.1 TECHNICAL DATA

Power supply	Mains 120-240 VAC
Outputs	1 contact: 230 V max 1000
Number of programmable transmitters	W, 110 V max 500 W
Radio frequency	100
Protection rating	433.920MHz ISM
Operating temperature	IP20
Dimensions	-20 +55 °C
	52x43x21 mm

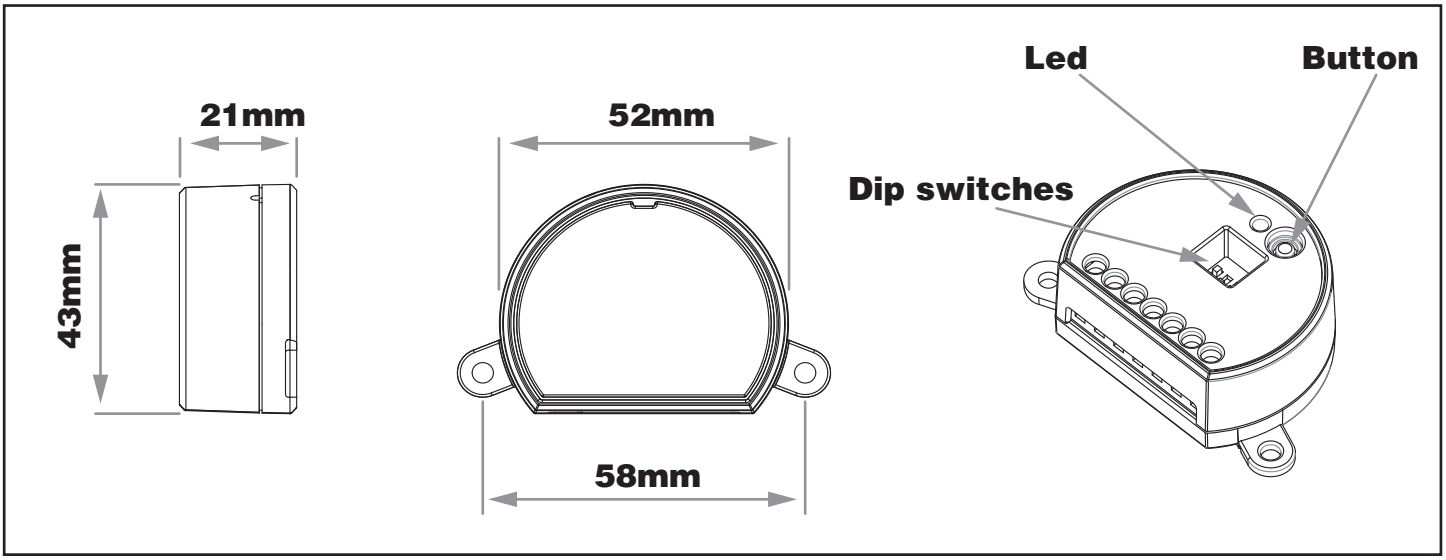


Fig.1.1b

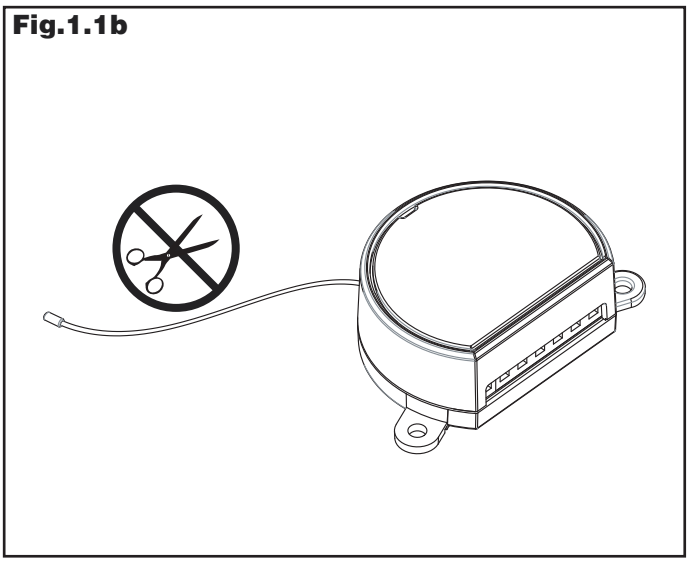
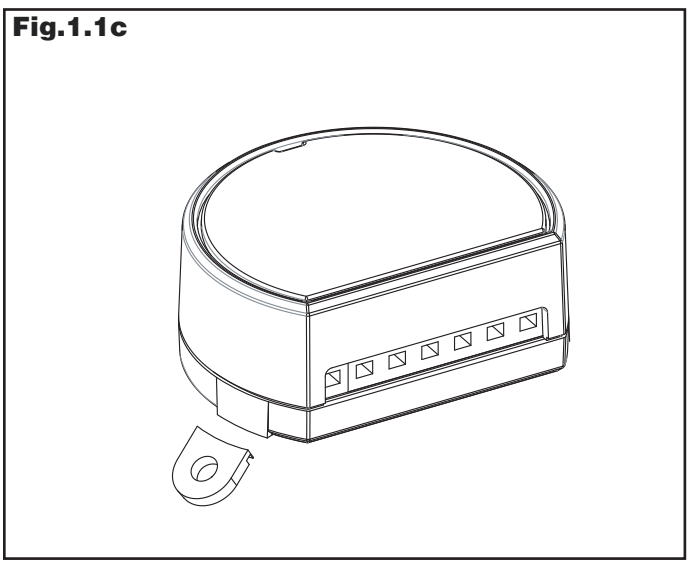
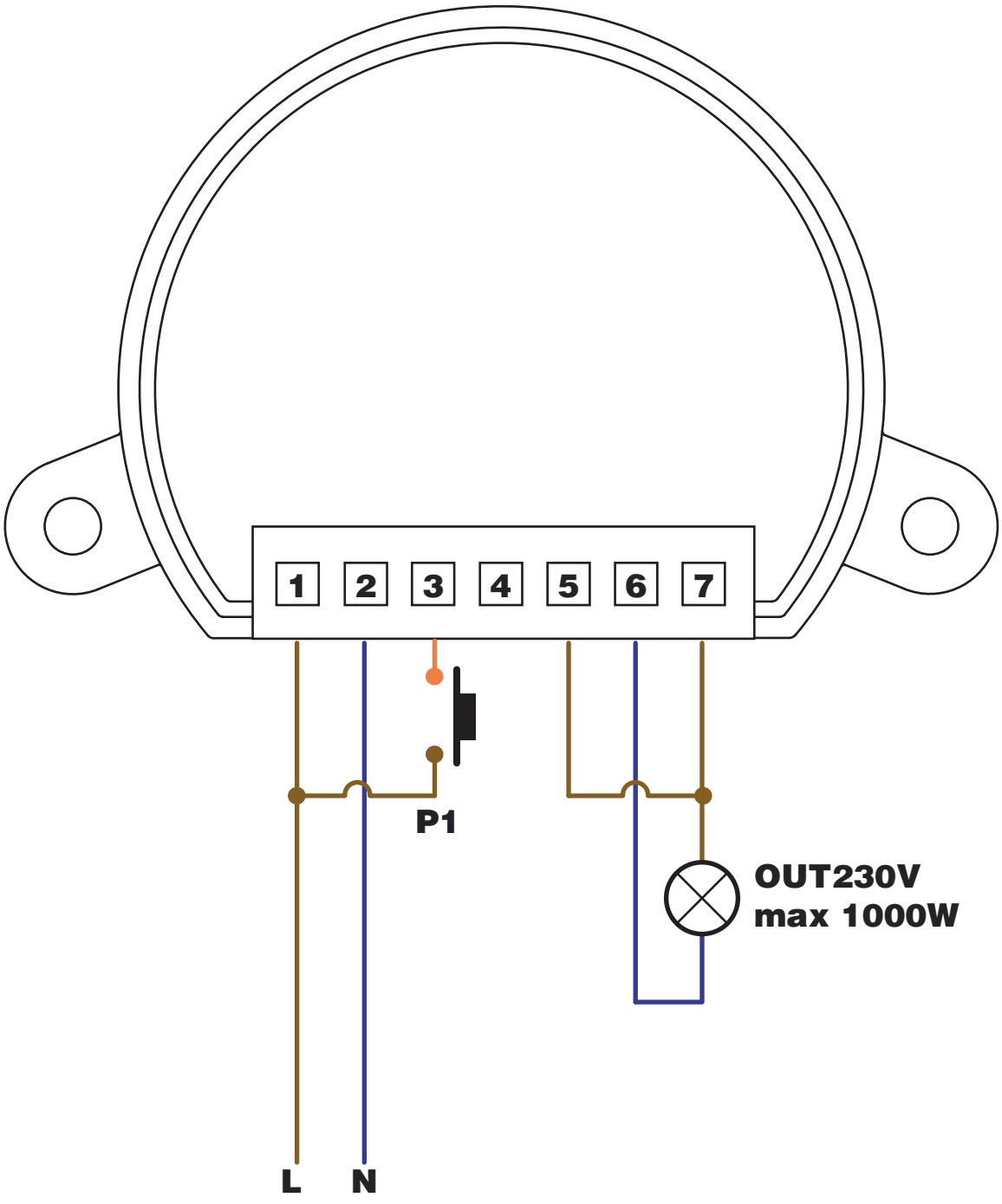


Fig.1.1c



2 - ELECTRICAL CONNECTIONS

This control unit comes set up for different types of connection that allow greater flexibility regarding the behaviour of the outputs and the types of inputs to adapt to various system configurations.



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 ways the transmitter is controlled depend on the setting of the outputs (see paragraph 4.1) and the model of transmitter used.
If the transmitter is of a generic type, its operation depends on the way it is programmed (see paragraph 5).
If the transmitter is multifunctional, refer to the transmitter manual, to the paragraph entitled “commands sent by the transmitter”, bearing in mind that:
Output set as monostable (see paragraph 4.1) = monostable device
Output set as bistable (see paragraph 4.1) = on/off device Output
Output set as timer (see paragraph 4.1) = timer device

3.2 USE VIA WIRE

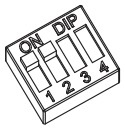
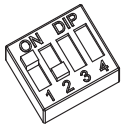
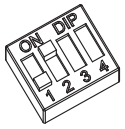
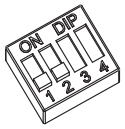
The device is set up to accept commands via wire from the button (or switches; see paragraphs 4.4, 4.5) in terminals 3 and 4. Should you want to control the load only via radio, it is not necessary to connect these devices for the control unit to work properly.
The behaviour of the inputs depends on the setting of the outputs (see paragraph 4.1). The following table shows the behaviours of the various keys:

	MONOSTABLE RELAY	BISTABLE RELAY	TIMER RELAY	RELE DISATTIVATO
INPUT	close and reopen contact 1	change contact status (closed, open...)	close contact 1 for the time set (see paragraph 4.2)	no action

4 CONTROL UNIT SETTINGS

4.1 SETTING “OUT1” OUTPUT

This process is used to configure the behaviour of the OUT1 (table 4.1a) contacts.

DIP 1 - 2 POSITION	MODE
 DIP 1 e 2: ON ON	Monostable (pulse)
 DIP 1 e 2: ON OFF	Bistable (On/Off)
 DIP 1 e 2: OFF ON	Timer (see para. 4.2)
 DIP 1 e 2: OFF OFF	Disabled

4.2 SETTING TIMING

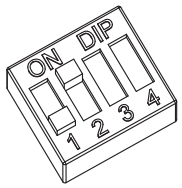
Default: 3 minutes

This process is used to set the time for which the “OUT1” contact stays closed if it is set on a timer.

PROCEDURE:

STEP 1

Position DIPs 1 and 2 to OFF-ON



DIP1= OFF
DIP2 = ON

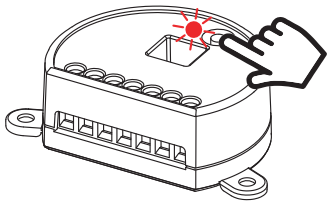
STEP 2

Position DIPs 3 and 4 according to the unit of measurement desired for the count, see table at the side

DIP 1AND 2	UNIT OF TIME
ON - ON 	1 second
ON - OFF 	30 seconds
OFF - ON 	1 minute
OFF - OFF 	1 hour

STEP 3

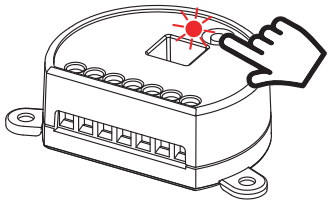
Press the button on the receiver for a short time.
The LED comes on and stays on.



SHORT
PRESSURE

STEP 4

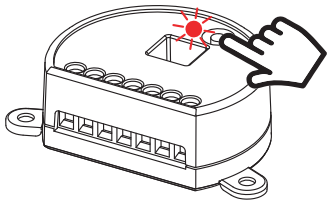
Press the button on the receiver for a short time.
The LED on the receiver starts to flash (max. 60 flashes): each flash corresponds to a unit of time



SHORT
PRESSURE

STEP 5

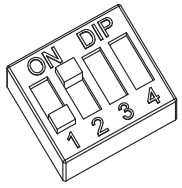
Press the button for a short time during the flash that corresponds to the function desired to end the count



SHORT
PRESSURE

STEP 6

To set output 1 as timed position DIPs 1 and 2 to OFF-ON (see paragraph 4.1)



DIP1= OFF
DIP2 = ON

4.3 SETTING TYPE OF INPUTS VIA WIRE “P1”

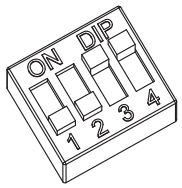
Default: Button

This procedure lets you choose the type of wired devices to command load 1 (connected on terminal 3, input P1).
The devices can be set as buttons or switches.

PROCEDURE:

STEP 1

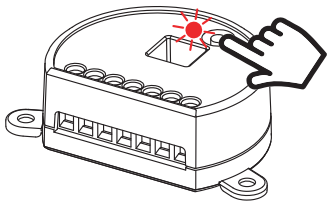
Position DIPs 1, 2, 3 and 4 to OFF-OFF-ON-ON



DIP1= OFF
DIP2 = OFF
DIP3= ON
DIP4 = ON

STEP 2

Press the button on the receiver for a short time.
The LED comes on and stays on.



SHORT PRESSURE

STEP 3

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

NUMBER OF FLASH	TYPE OF INPUT
3	Button
6	Switch

STEP 4

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

STEP 5

After programming, reposition the dip switches to the desired operation of the contacts (see paragraph 4.1)

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:
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:

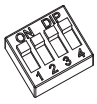
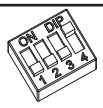
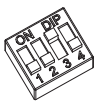
Output set as monostable (DIP 1=ON and DIP2=ON)= monostable device
Output set as bistable (DIP 1=ON and DIP 2= OFF)= on/off device.
Output set as timer (DIP 1=ON and DIP 2= ON)= timer device.

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

POSITION OF DIP IN “STEP 1b” OF THE PROCEDURE	KEY FUNCTION
 DIP: ON ON ON ON	ON / OFF
 DIP: OFF OFF OFF ON	ON
 DIP: OFF OFF ON OFF	OFF

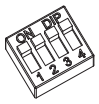
PROCEDURE

WHICH TRANSMITTER DO YOU WANT TO PROGRAMME?

MULTIFUNCTION
(see models and codes on previous page)

GENERIC
(see models and codes on previous page)

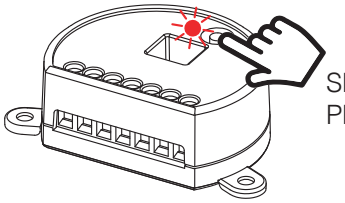
STEP 1a
Position DIPs 1, 2, 3 and 4 to ON-ON-ON-ON



DIP: ON-ON-ON-ON

STEP 1b
Positions DIPs 1, 2, 3 and 4 according to the function you want to associate with the remote control key.
See table 5.1 on the previous page.

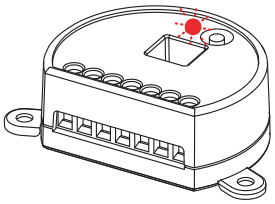
STEP 2
Press the button on the receiver for a short time.
The LED comes on and stays on.



SHORT PRESSURE

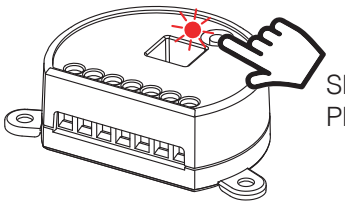
STEP 3
Make a transmission with the transmitter to be saved (see transmitter manual, paragraph entitled “transmitter programming”).
The LED on the receiver flashes 3 times to signal that it has been received.

MAKE A TRANSMISSION WITH THE TRANSMITTER



THE LED FLASHES 3 TIMES

STEP 4
The control unit listens for 30 seconds in case you wantto add other transmitters.
To immediately exit the procedure give a short pressure on the button on the receiver.
The LED turns off



SHORT PRESSURE

STEP 5
After programming, reposition the dip switches to the desired operation of the contacts. (see paragraph 4.1)

FURTHER DETAILS

BEHAVIOUR OF OUTPUTS BASED ON THE FUNCTION ASSOCIATED WITH THE KEY
The column on the left shows the commands that can be programmed on the generic transmitter (see table 5.1), and the top row the output setting (see paragraph 4.1).

FUNCTION OF KEY	MONOSTABLE	BISTABLE	TIMER
ON / OFF	Pulse	Change of status of load	Close contact for the time set (see paragraph 4.2)
ON	Pulse	Close contact	Close contact for the time set (see paragraph 4.2)
OFF	Pulse	Open contact	Open contact

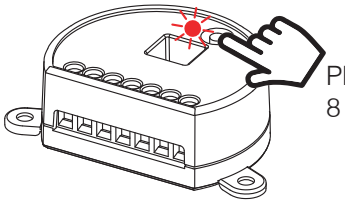
6 DELETION OF TRANSMITTERS

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

6.1 DELETION OF SINGLE TRANSMITTER:

STEP 1

Hold the receiver button down for 8 seconds.
The LED begins to flash

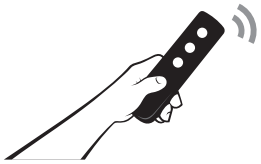


PRESSIONE PER 8 SECONDI

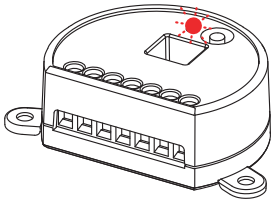
STEP 2

Make a transmission with the transmitter that you want to delete.

The LED flashes quickly and turns off.



MAKE A TRANSMISSION WITH THE TRANSMITTER



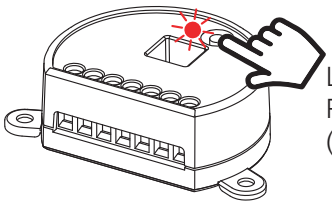
LED FLASHES QUICKLY

6.2 DELETION OF ALL THE SAVED TRANSMITTERS

STEP 1

Hold the receiver button down for 8 seconds.

The LED begins to flash.

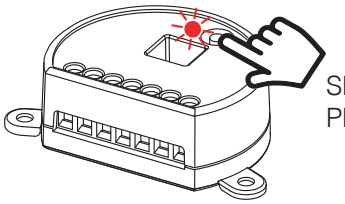


LONG PRESSURE (8 SECONDS)

STEP 2

Press the button on the receiver for a short time.

The LED starts flashing quickly and turns off



SHORT PRESSURE

MNLMCU-L1ITV1.2

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