

TOP-V8/CCT2



**Control unit with dimmer function for LEDs with constant voltage.
CCT colour temperature management. 12-36Vdc, 2 outputs, max 8A per output (max 24A in total).
RX radio 433.92 MHz, 3 wired inputs, input for extender.**

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.

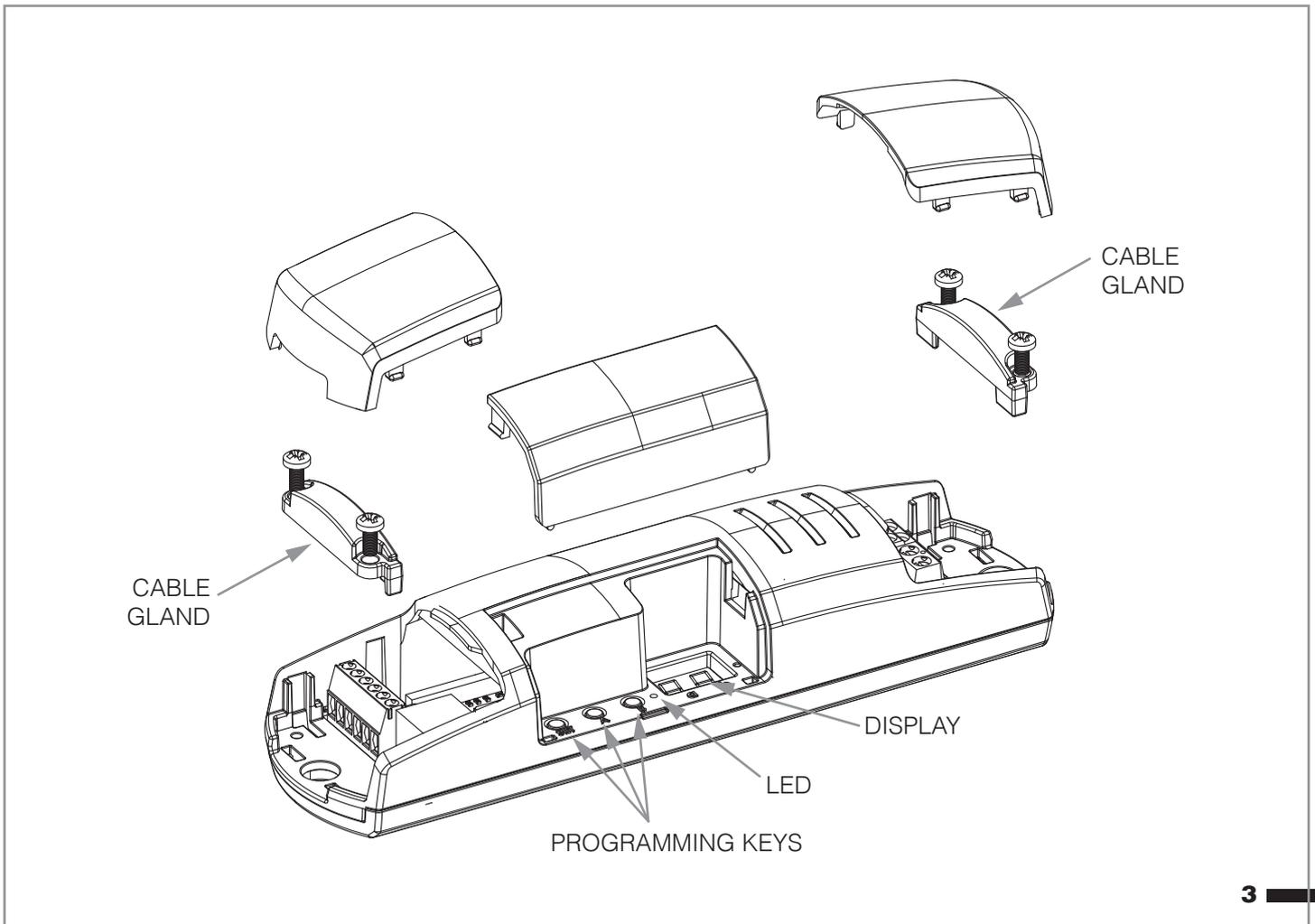
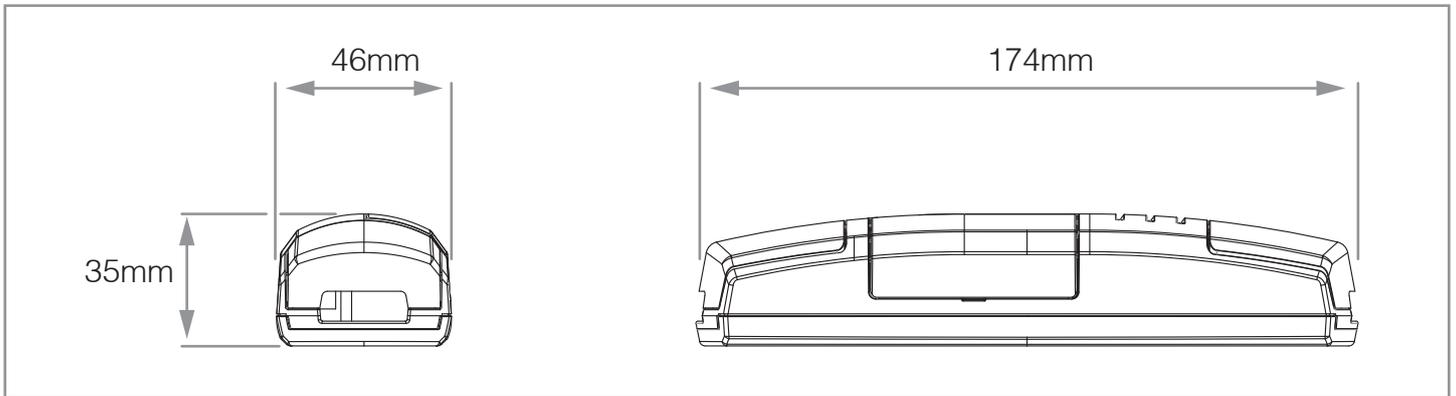
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1 - PRODUCT FEATURES

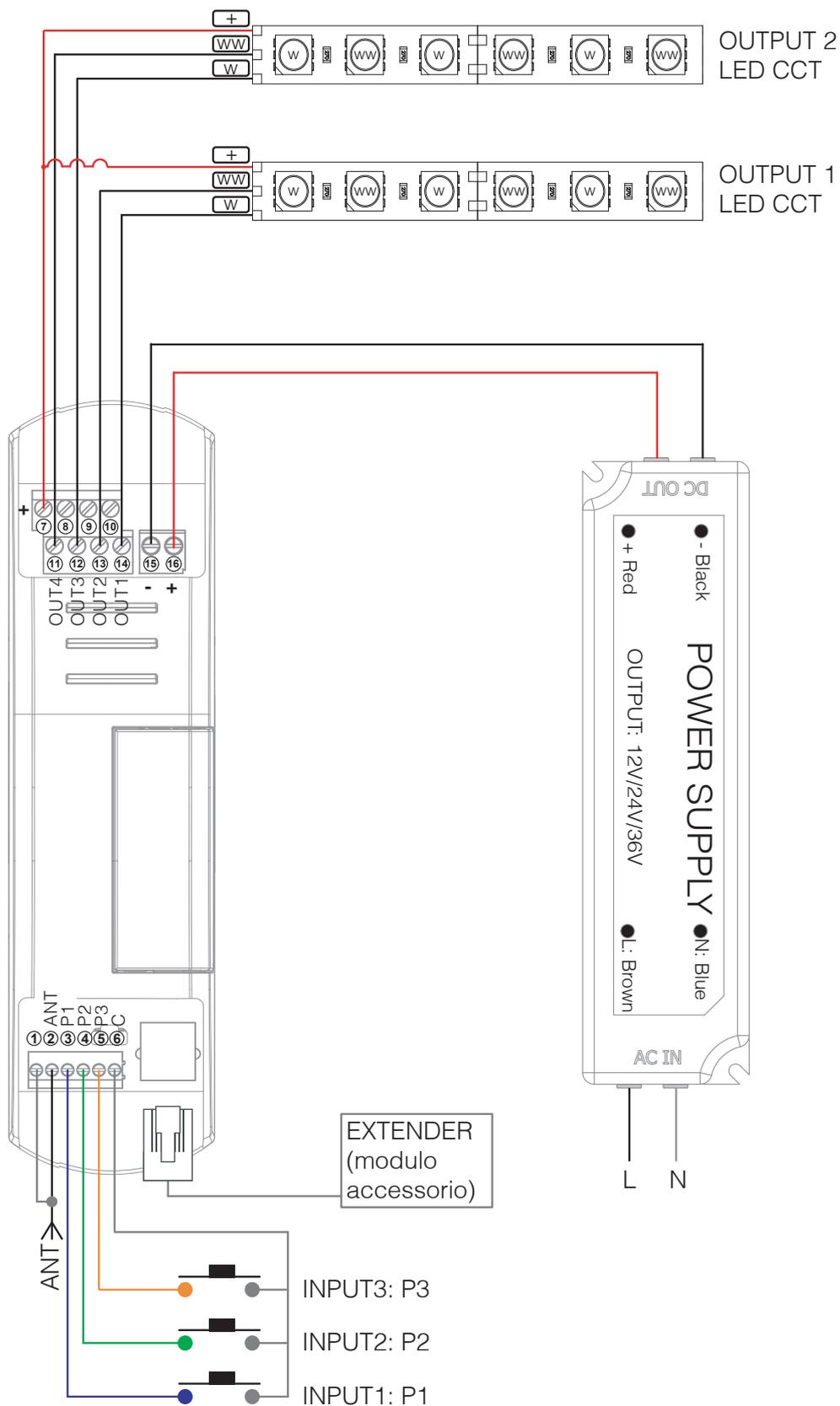
1.1 TECHNICAL DATA

Power supply	12-36 Vdc
Type of load	Led in tensione costante bianco dinamico (CCT)
Output	Max load 8A (12Vdc= 96W, 24Vdc=192W) per output: Max load total 24A (12Vdc= 288W, 24Vdc=576W)
N° of programmable transmitters	30
Radio frequency	433.920mhz ISM
Operating temperature	-20 +55 °C
Dimensions	52x43x21 mm
Protection rating	IP20



2 - COLLEGAMENTI ELETTRICI

2.1 SCHEMA DEI COLLEGAMENTI



2.2 DESCRIPTION OF CONNECTIONS

- Not all loads and buttons need to be connected for the control unit to operate correctly.
- 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.
- For ease of connection terminals 7-8-9 and 10 are equivalent to each other. The positive of each possible load can therefore be connected to a different terminal

WARNING: If a load with higher consumption than that allowed (see control unit information plate data) is connected, the control unit will go into safety mode, switching off the load for one minute.

TERMINAL	DESCRIZIONE
1	Aerial sleeve
2	Aerial signal
3	Button P1 input
4	Button P2 input
5	Button P3 input
6	Common for buttons
7, 8, 9, 10	Output +24V
11	OUT1 - Warm led
12	OUT1 - Cold led
13	OUT2 - Warm led
14	OUT2 - Cold led
15	Power supply -
16	Power supply + (12-24-36V)

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

3.2 USE VIA WIRE

The device is set up to accept commands via wire by button in terminals 4, 5 and 6.

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 different keys is shown in the following table:

	LOAD OFF	LOAD ON
INPUT P1 short press	OUT 1 on	OUT 1 off
INPUT P1 long press	OUT 1 temperature change	Dimmer intensity up/down of OUT 1
INPUT P2 short press	OUT 2 on	OUT 2 off
INPUT P2 long press	OUT 2 temperature change	Dimmer intensity up/down of OUT 2
INPUT P3 short press	OUT 1 and 2 on	OUT 1 and 2 off
INPUT P3 long press	OUT 1 and 2 temperature change	Dimmer intensity up/down of OUT 1 and 2

4 CONTROL UNIT SETTINGS

In the programming zone (see picture 4) you can access the programming menu using the keys and the display. Short presses on the "SET" key let you scroll through the different programmable functions visible on the display ("P1", "P2"...).

Prolonged pressure on the "SET" key (approx. 3 seconds) allows access to the menu for the function selected.

The different types of programming available are:

- "P1": programming of radio
- "P2": deletion of radio
- "P3": activation/deactivation of memory of last value at switch-on
- "P4": selection of fade on
- "P5": selection of fade off
- "P6": selection of minimum intensity value
- "FS": factory setting, reset control unit

4.1 MENU “P1”: 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 it is an “cct” 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:

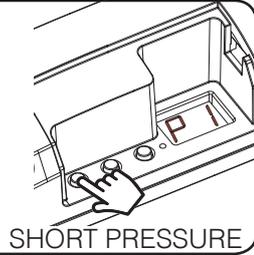
Table 4.1

NUMBER TO BE SET IN “STEP 4b” OF THE PROCEDURE	KEY FUNCTION
2	Short press= ON/OFF Prolonged press (light on)= Dimmer Up/Down Prolonged press (light off)= Dimmer Temperatura
3	ON
4	OFF
5	Dimmer DOWN temperature of white light
6	Dimmer UP temperature of white light
7	Dimmer UP/DOWN temperature of white light

PROCEDURE

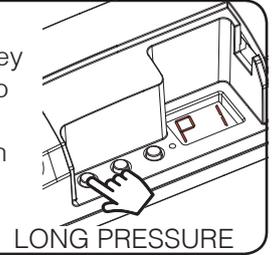
STEP 1

Short presses on the “SET” key let you scroll through the menu until “P1” programming appears on the display.



STEP 2

A prolonged press on the “SET” key (approx. 3 seconds) takes you into programming. The LED on the receiver comes on

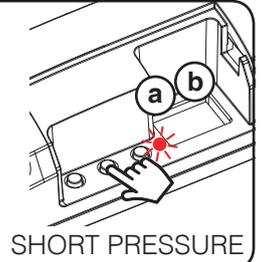


STEP 3

WHICH OUTPUT DO YOU WANT TO CONTROL?

Short presses on key “A” let you choose the output to programme the transmitter on, shown on display “a”, see table alongside.

Display “a”	USCITA ABBINATA AL TX
1	OUT1
2	OUT2
A	ALL OUT



WHICH TRANSMITTER DO YOU WANT TO PROGRAMME?

MULTIFUNCTION TRANSMITTER

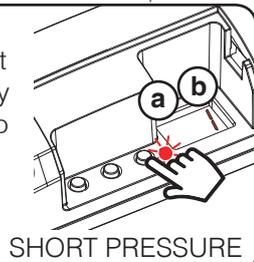
(see models and codes on previous page)

GENERIC TRANSMITTER

(see models and codes on previous page)

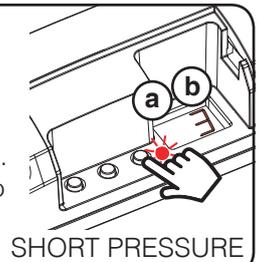
STEP 4a

Short presses on key “B” let you set value “1” on the display (the display “a” shows the output to associate to the transmitter)



STEP 4b

Short presses on key “B” let you choose the function you want to programme shown on the displays. See table 4.1 on the previous page. (the display “a” shows the output to associate to the transmitter)



STEP 5

Give a long press on key “B” (approx. 3 seconds). The LED on the display comes on

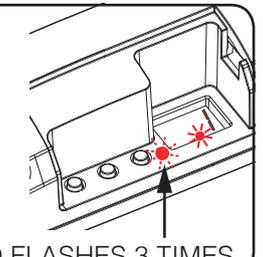


STEP 6

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

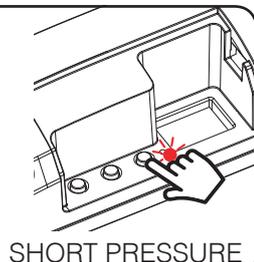


MAKE A TRANSMISSION WITH THE TRANSMITTER



STEP 7

The control unit listens for 50 seconds in case you want to add other transmitters. To immediately exit the procedure give a short pressure on key “b”. The LED on the display turns off



STEP 8

The control unit goes back to the menu displaying the radio programming. If you want to save other transmitters, go back to point 3 of this procedure. If you want to go back to the menu displaying the different types of programming, give a prolonged press to the “SET” key (approx. 3 seconds).

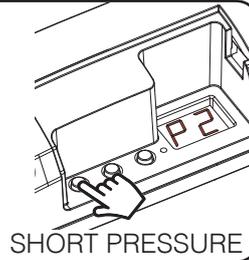
4.2 MENU "P2": DELETION OF RADIO

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

DELETION OF SINGLE TRANSMITTER CHANNEL:

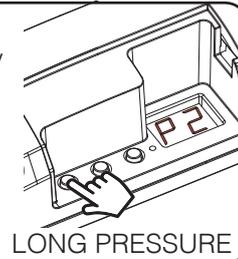
STEP 1

Short presses on the "SET" key let you scroll through the menu until "P2" programming appears on the display.

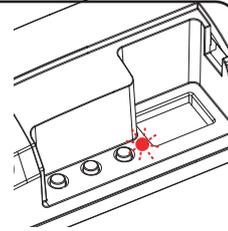


STEP 2

A prolonged press on the "SET" key (approx. 3 seconds) takes you into programming. The LED on the receiver lights up



What is shown on display "a" and "b" has no influence on this procedure.



STEP 3

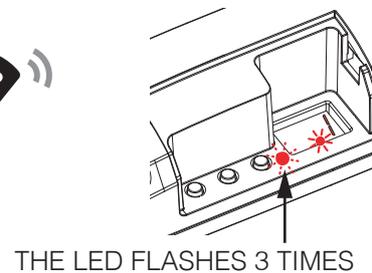
Give a long press on key "B" (approx. 3 seconds) The LED on the receiver starts to flash



STEP 4

Within 5 seconds make a transmission with the remote control that you want to delete. The LED on the receiver will flash rapidly and stay on.

MAKE A TRANSMISSION WITH THE TRANSMITTER

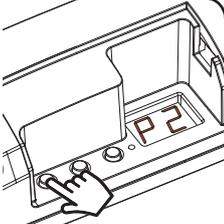


STEP 5

The control unit goes back to the menu displaying the radio deletion. If you want to delete other transmitters, go back to point 3 of this procedure. If you want to go back to the menu displaying the different types of programming, give a prolonged press to the "SET" key (approx. 3 seconds).

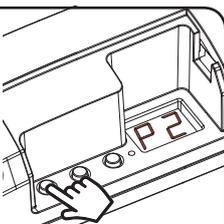
DELETION OF ALL TRANSMITTERS MATCHED WITH AN OUTPUT:

STEP 1
Short presses on the "SET" key let you scroll through the menu until "P2" programming appears on the display.



SHORT PRESSURE

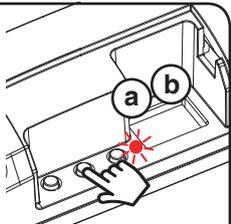
STEP 2
A prolonged press on the "SET" key (approx. 3 seconds) takes you into programming. The LED on the receiver lights up



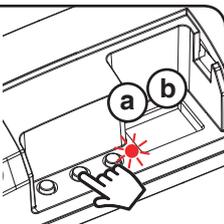
LONG PRESSURE

STEP 3
Short presses on key "A" let you choose the output from which to delete all the programmed transmitters; see table alongside

Display "a"	Output
1	OUT1
2	OUT2

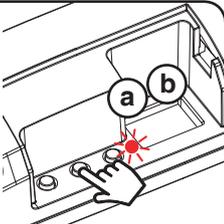


STEP 4
Prolonged press on key "A" (approx. 3 seconds) the LED on the receiver starts to flash



LONG PRESSURE

STEP 5
Within 5 seconds give a short press on key "A" to confirm the deletion. The LED on the receiver will flash rapidly and stay on



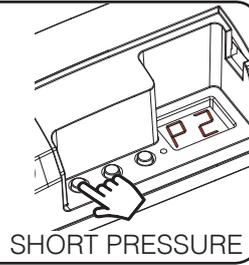
LONG PRESSURE

STEP 6
The control unit goes back to the menu displaying the radio delection. If you want to delete other transmitters, go back to point 3 of this procedure. If you want to go back to the menu displaying the different types of programming, give a prolonged press to the "SET" key (approx. 3 seconds).

DELETION OF ALL THE SAVED TRANSMITTERS:

STEP 1

Short presses on the "SET" key let you scroll through the menu until "P2" programming appears on the display.



SHORT PRESSURE

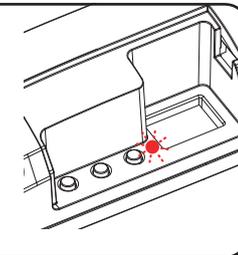
STEP 2

A prolonged press on the "SET" key (approx. 3 seconds) takes you into programming. The LED on the receiver lights up



LONG PRESSURE

What is shown on display "a" and "b" has no influence on this procedure



STEP 3

Give a long press on key "B" (approx. 3 seconds). The LED on the receiver starts to flash



LONG PRESSURE

STEP 4

Within 5 seconds quickly press key "B" to confirm the deletion. The LED on the receiver will flash and stay on



SHORT PRESSURE

STEP 5

The control unit goes back to the menu displaying the radio deletion. If you want to delete other transmitters, go back to point 3 of this procedure. If you want to go back to the menu displaying the different types of programming, give a prolonged press to the "SET" key (approx. 3 seconds).

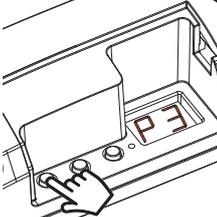
4.3 MENU "P3": "SAVE" FUNCTION (BRIGHTNESS LEVEL AT SWITCH-ON)

Default: memo on

With this procedure you can set the intensity value at which the loads come on.
The setting will be effective for all the outputs.

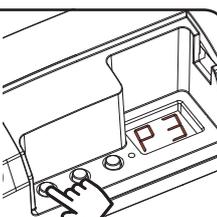
PROCEDURE:

STEP 1
Short presses on the "SET" key let you scroll through the menu until "P3" programming appears on the display.



SHORT PRESSURE

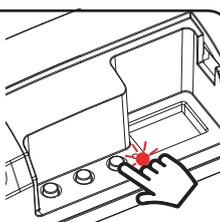
STEP 2
A prolonged press on the "SET" key (approx. 3 seconds) takes you into programming.
The LED on the receiver lights up



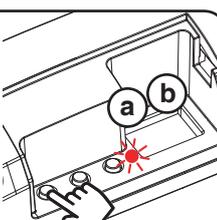
LONG PRESSURE

STEP 3
Display "a" always shows the letter "A" (all).
Make short presses on key "B" to choose the setting you want to set based on table alongside.

Display	Funzione
A1	"SAVE" function on. The load will switch on at the last brightness value set before it was switched off
A2	Switch-on of load at maximum intensity with white light



STEP 4
To confirm give a prolonged press on the "SET" key (approx. 3 seconds).



LONG PRESSURE

STEP 5
The control unit goes back to the menu displaying the different types of programming

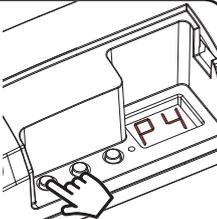
4.4 MENU "P4": CONFIGURAZIONE DEL FADE: ACCENSIONE GRADUALE

Default: circa 0,5

Con questa procedura è possibile impostare la durata del tempo di accensione.

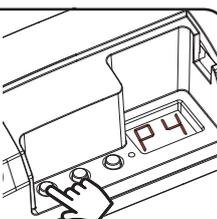
PROCEDURA:

STEP 1
Short presses on the "SET" key let you scroll through the menu until "P4" programming appears on the display.



SHORT PRESSURE

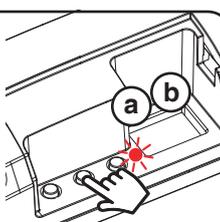
STEP 2
A prolonged press on the "SET" key (approx. 3 seconds) takes you into programming. The LED on the receiver lights up



LONG PRESSURE

STEP 3
Short presses on key "A" let you choose the output from which to delete all the programmed transmitters; see table alongside

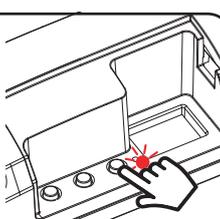
Display "a"	Output
1	OUT1
2	OUT2



SHORT PRESSURE

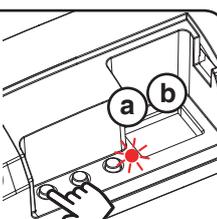
STEP 4
Make short presses on key "B" to choose the setting you want to set based on table alongside (the display "a" shows the output to set the fade)

Display "b"	Fade
1	Immediate on
2	On ~ 0,5s
3	ON ~ 2s
4	ON ~ 4s
5	ON ~ 10s



SHORT PRESSURE

STEP 5
To confirm give a prolonged press on the "SET" key (approx. 3 seconds).



LONG PRESSURE

STEP 6
The control unit goes back to the menu displaying the different types of programming.

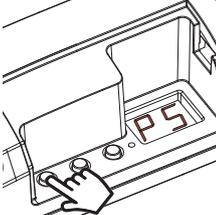
4.5 MENU "P5": FADE SETTING: GRADUAL SWITCH-OFF

Default: switch-off in approx. 0.5

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

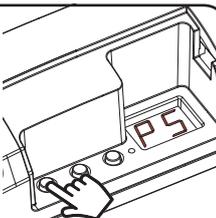
PROCEDURE:

STEP 1
Short presses on the "SET" key let you scroll through the menu until "P5" programming appears on the display.



PRESSIONE BREVE

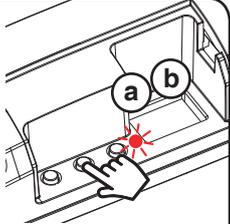
STEP 2
A prolonged press on the "SET" key (approx. 3 seconds) takes you into programming. The LED on the receiver lights up



PRESSIONE LUNGA

STEP 3
Short presses on key "A" let you choose the output from which to delete all the programmed transmitters; see table alongside

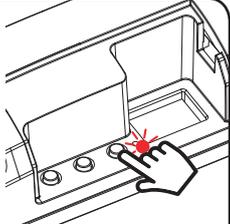
Display "a"	Output
1	OUT1
2	OUT2



SHORT PRESSURE

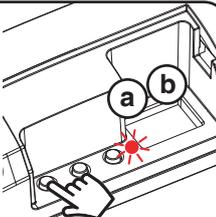
STEP 4
Make short presses on key "B" to choose the setting you want to set based on table alongside (the display "a" shows the output to set the fade)

Display "b"	Fade
1	On immediato
2	On ~ 0,5s
3	ON ~ 2s
4	ON ~ 4s
5	ON ~ 10s



SHORT PRESSURE

STEP 5
To confirm give a prolonged press on the "SET" key (approx. 3 seconds).



PRESSIONE LUNGA

STEP 6
The control unit goes back to the menu displaying the different types of programming.

4.6 MENU "P6": SELECTION OF MINIMUM INTENSITY VALUE

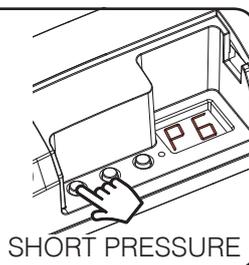
Default: No minimum value

This procedure lets you select the minimum intensity value that can be set during normal operation.

PROCEDURE:

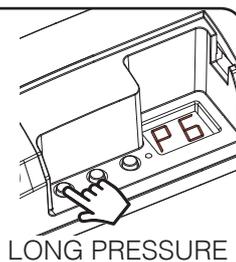
STEP 1

Short presses on the "SET" key let you scroll through the menu until "P6" programming appears on the display.



STEP 2

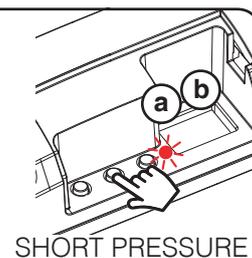
A prolonged press on the "SET" key (approx. 3 seconds) takes you into programming. The LED on the receiver lights up



STEP 3

Short presses on key "A" let you choose the output from which to delete all the programmed transmitters; see table alongside

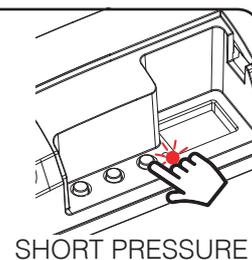
Display "a"	Output
1	OUT1
2	OUT2



STEP 4

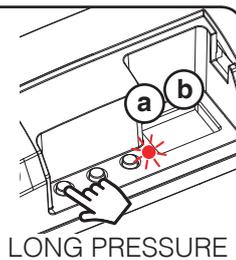
Con pressioni brevi del tasto "B" scegliere la funzione che si vuole programmare visualizzata sui display "b" in base alle indicazioni della tabella a lato

Display "b"	Minimum brightness that can be set
1	Default (luce spenta)
2	Value Displayed: set the desired minimum intensity value



STEP 5

To confirm give a prolonged press on the "SET" key (approx. 3 seconds).



STEP 6

The control unit goes back to the menu displaying the different types of programming.

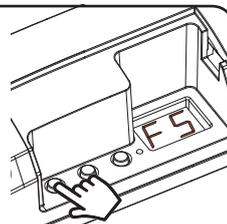
4.7 MENU "FS": FACTORY SETTING, RESET DELLA CENTRALE

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

PROCEDURE:

STEP 1

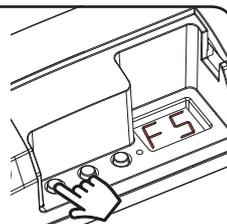
Short presses on the "SET" key let you scroll through the menu until "FS" programming appears on the display.



SHORT PRESSURE

STEP 2

A prolonged press on the "SET" key (approx. 3 seconds) takes you into programming. The LED on the receiver lights up

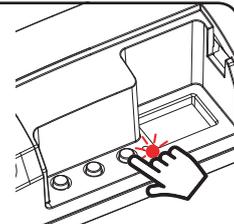


LONG PRESSURE

STEP 3

Con pressioni brevi del tasto "B" posso modificare l'impostazione visualizzata sul display "b":

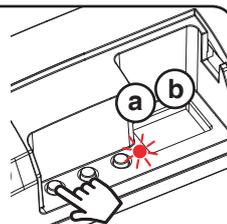
Display	
F1	Reset factory parameters, but no deletion of already
F2	Full reset of factory parameters, even stored transmitters will be deleted



SHORT PRESSURE

STEP 5

To confirm, give a prolonged press on the "SET" key (approx. 3 seconds). The LED flashes



LONG PRESSURE

STEP 6

The control unit goes back to the menu displaying the different types of programming.

MNLMCU-L1TV1.2

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