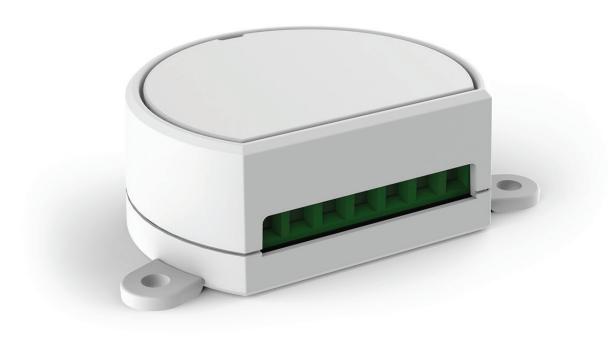
MCU-DMW

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





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 - 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

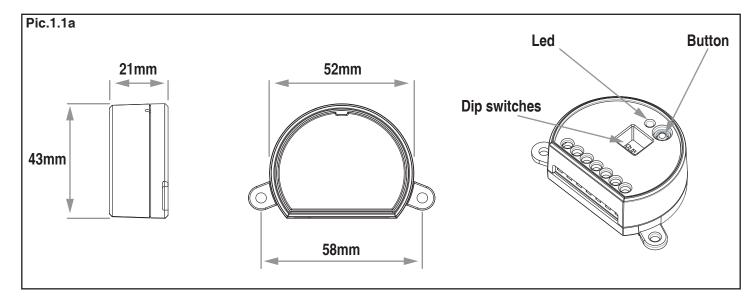
WARNINGS

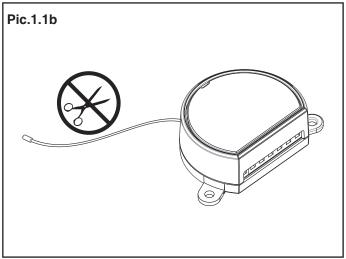
- Installation must be carried out only by qualified technicians in compliance with the electrical and safety standards in force.
- All connections must be made with the power turned off.
- Use suitable cables.
- Do not cut through the aerial (see picture 1.1b)
- A suitably sized disconnection device must be set up on the electric power line that supplies the product.
- Disposal of waste materials must fully respect local standards.

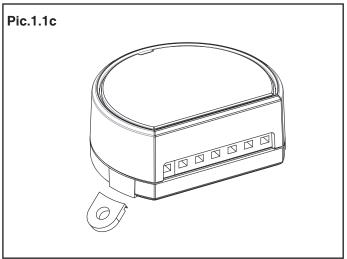
1 - PRODUCT FEATURES

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

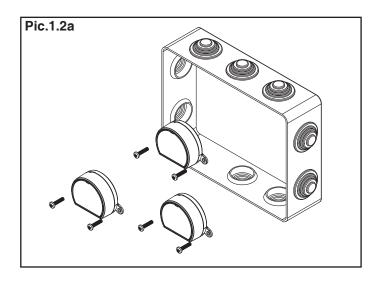
This device is the miniature electronic control unit with dimmer function, for wireless and wired control of singl colour constant voltage LEDs, power supply12-24Vdc and maximum consumption of 5A.

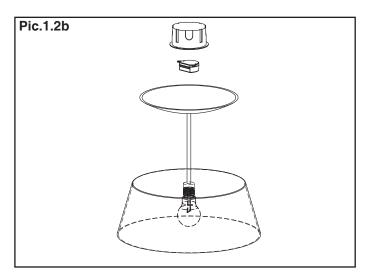
One wired input, Wide-ranging and accurate dimmer function; fade on

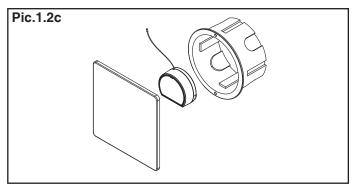
and off that can be setto between 0 and 10 seconds.

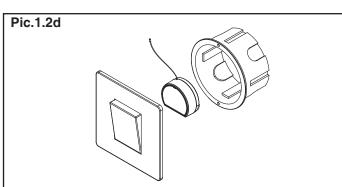
The ISM (industrial, scientific and medical) radio frequency band guarantees a long range, even through walls and ceilings.

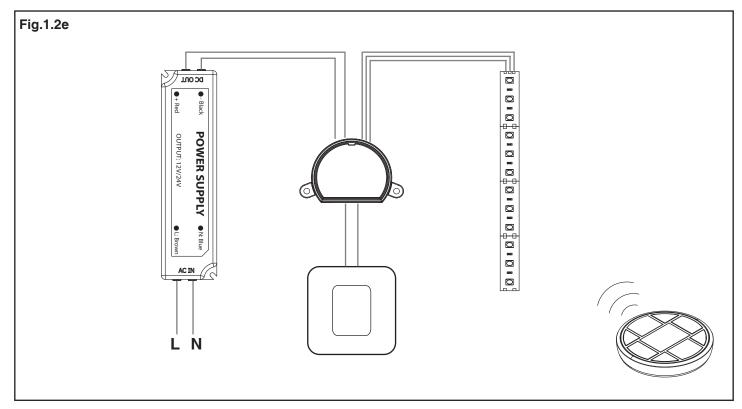
Simple programming with dip-switch, reduced dimensions with breakable tabs for fixing with screws or for insertion into interconnection boxes with 55 mm diameter.





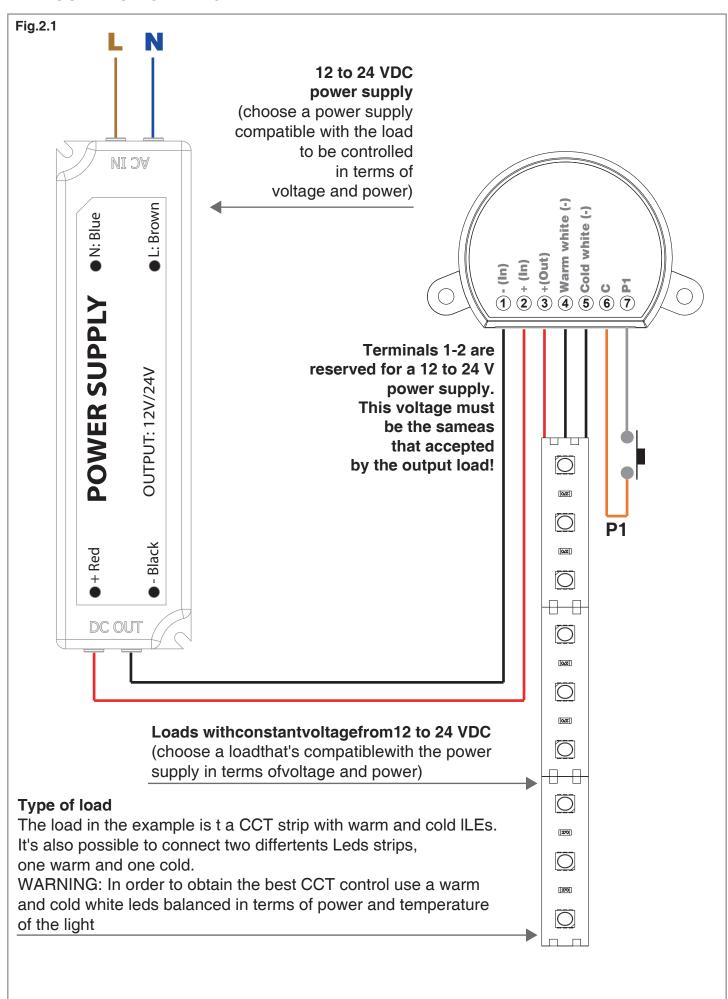






2 ELECTRICAL CONNECTIONS

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 loads can be connected to the same output by using parallel cabling.

TERMINAL	DESCRIPTION			
1	Power supply -			
2	Power supply + (12-24)			
3	Output +			
4	Output warm white			
5	Output cold white			
6	Common for buttons			
7	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 up(automatically temperature change)	Dimmer up/down (automatically temperature change)

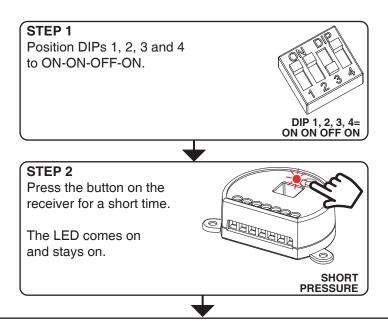
4 - CONTROL UNIT SETTINGS

4.1 FADE SETTING: GRADUAL SWITCH ON

Default: 0,5s

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

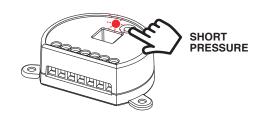
PROCEDURE:



STEP 3

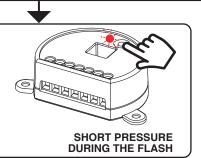
Press the button on the receiver for a short time count the number of flashes emitted by the LED:

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



STEP 4

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

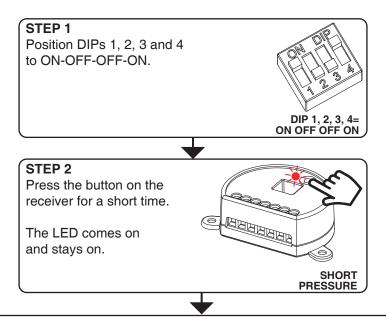


4.2 FADE SETTING: GRADUAL SWITCH OFF

Default: 0,5s

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

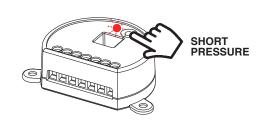
PROCEDURE:



STEP 3

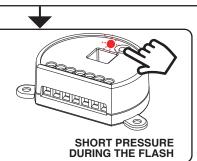
Press the button on the receiver for a short time count the number of flashes emitted by the LED:

FLASHES	SWITCH-OFF TIME
1 flash	immediate OFF
2 flashes	OFF ~ 0,5s
3 flashes	OFF ~ 2s
4 flashes	OFF ~ 4s
5 flashes	OFF ~ 10s



STEP 4

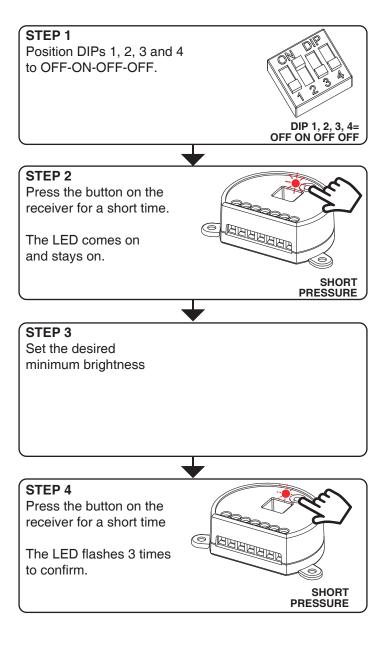
Press the button for a short time during the flash that corresponds to the function desired to end the count



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.

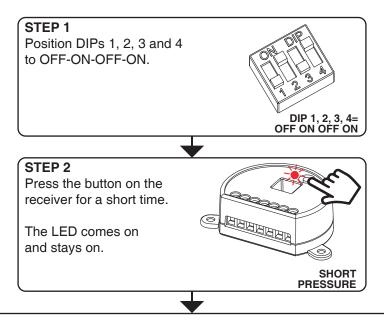
PROCEDURE:



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

Default: save not on

PROCEDURE:



STEP 3

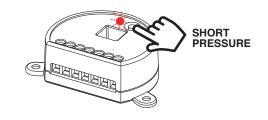
Press the button on the receiver for a short time.

Count the number of flashes emitted by the LED:

3 flashes= Last value set

6 flashes= Maximum brightness

NUMBER OF FLASH	INTENSITY AT SWITCH-ON
3	Last value set
6	Maximum brightness



STEP 4

To change the setting, repeat the procedure from point 1;

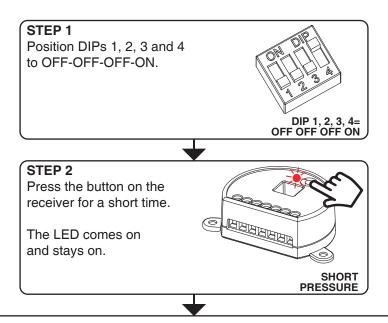
the control unit will alternate between 3 and 6 flashes.

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

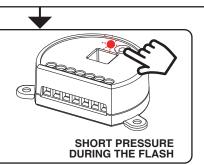
Press the button on the receiver for a short time count the number of flashes emitted by the LED:

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



STEP 4

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



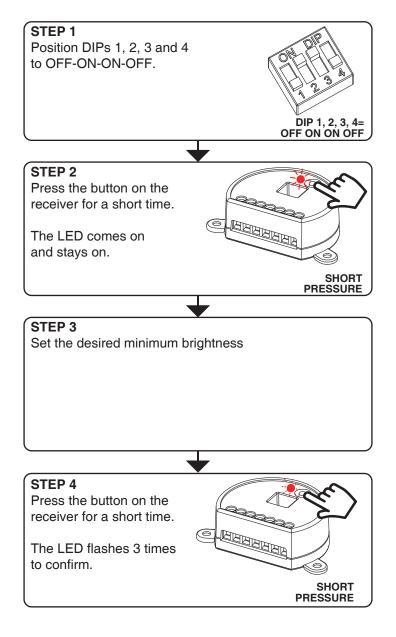
4.6 LOAD STATE WHEN THE CONTROL UNIT IS SWITCHED ON

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.

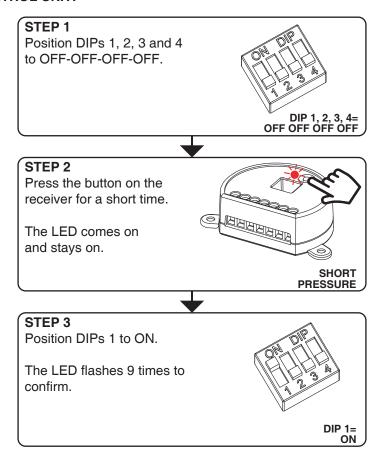
PROCEDURE:



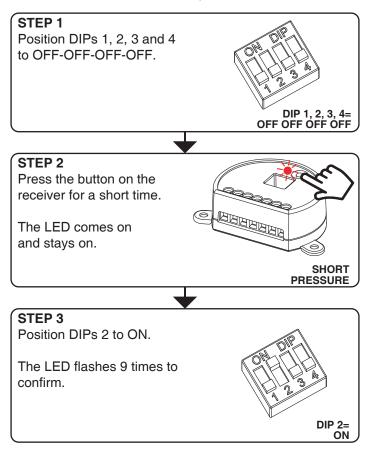
4.7 FACTORY SETTING

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.



CODES:

HB80-6G,

MCU-TX4,

TOUCH-1G, TOUCH-2G, TOUCH-4G, TOUCH-LOCK4, TOUCH-TX2,

ROUND-1G

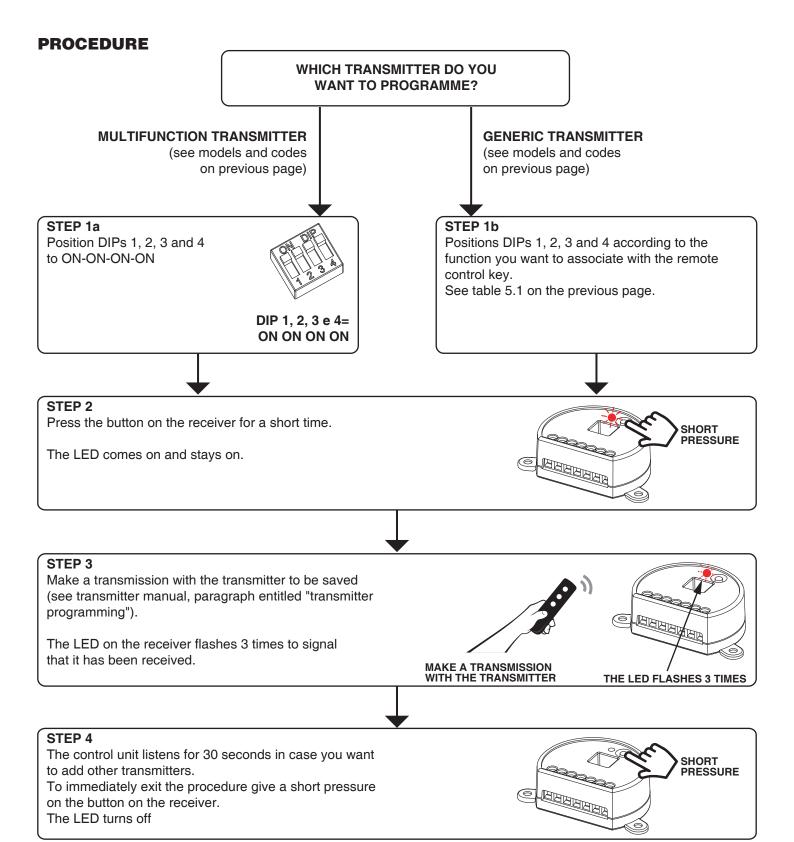
With generic transmitters, the transmitter's control modes depend on the function associated with the key during the association procedure.

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
DIP: ON ON ON OFF	ON / OFF
DIP: OFF ON ON ON	Short pressure= ON / OFF Long pressure= DIMMER UP / DIMMER DOWN
DIP: OFF OFF ON ON	OFF
DIP: ON OFF ON ON	ON

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



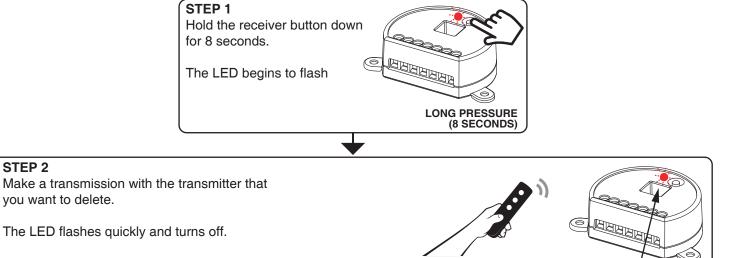
6 - DELETION OF TRANSMITTERS

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

6.1 DELETION OF SINGLE TRANSMITTER

STEP 2

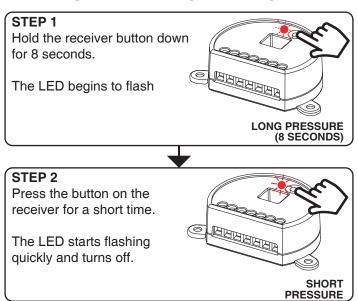
you want to delete.



MAKE A TRANSMISSION WITH THE TRANSMITTER

LED FLASHES QUICKLY

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.

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