

TOP-DL20

*Control unit with dimmer function for wired or radio
control of up to 20 devices with DALI input
110-240 Vac power supply
Radio receiver 433.92MHz.*

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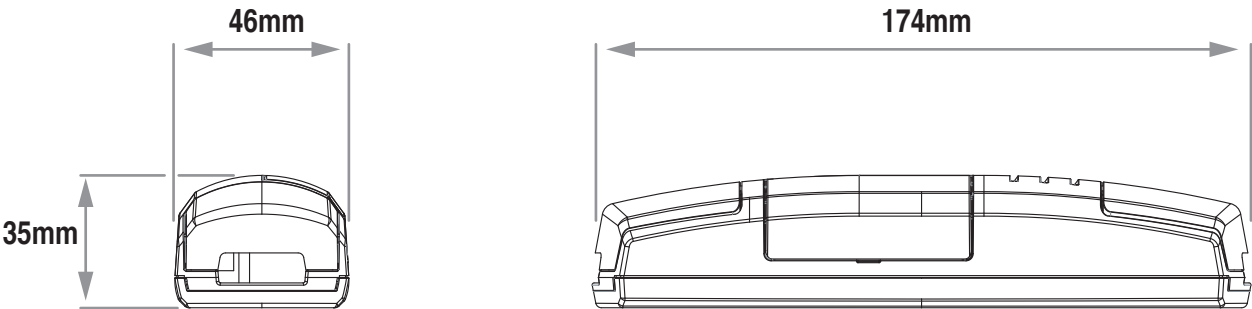
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1 - PRODUCT FEATURES

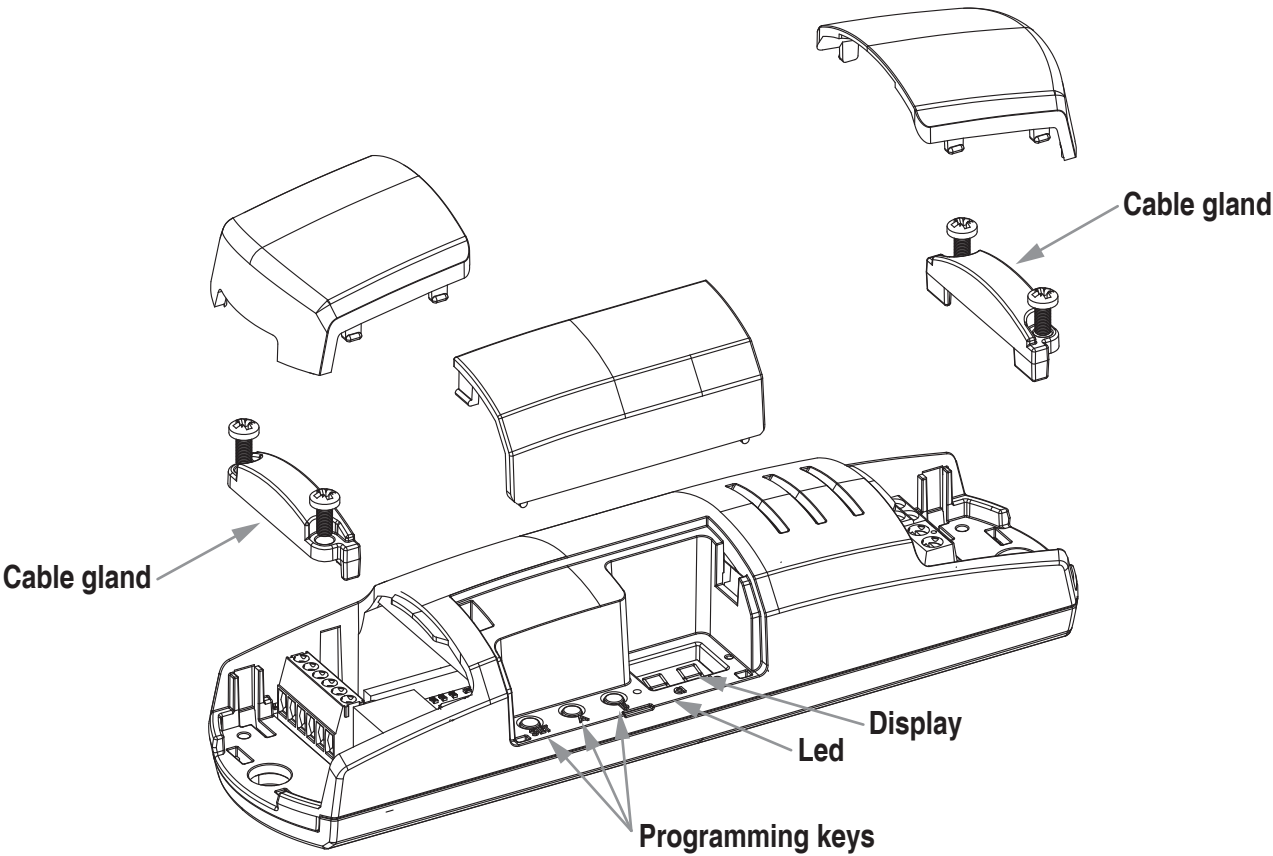
1.1 TECHNICAL DATA

Power supply	110-240 Vac
Output	DALI BUS
N° of programmable transmitters	40
Radio frequency	433.920mhz ISM
Protection rating	IP20
Operating temperature	-20 +55 °C
Dimensions	174x46x35 mm

Picture 1.1a



Picture 1.1b



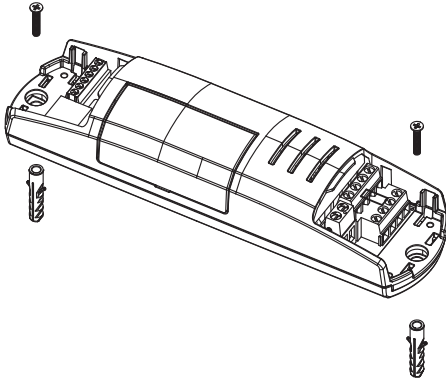
1.2 DESCRIPTION

Control unit with dimmer function for devices with DALI input such as electrical ballasts and transformers for fluorescent lamps.

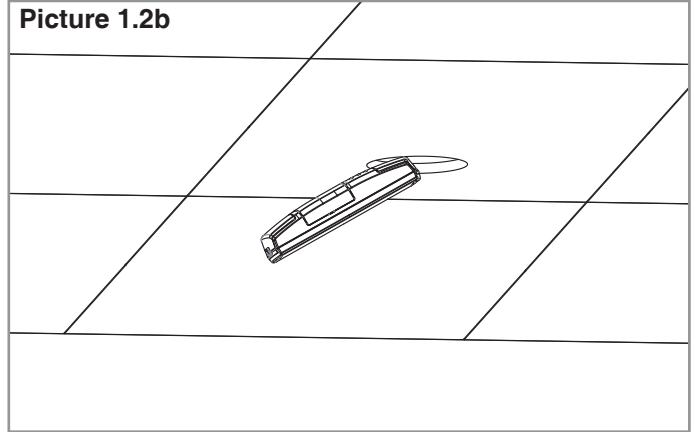
The ISM (industrial, scientific and medical) radio frequency band guarantees a long range, even through walls and ceilings.

Programming via the display is quick and intuitive while its compact size mean it can be easily installed in false ceilings (picture 1.2b) and interconnection boxes (picture 1.2c).

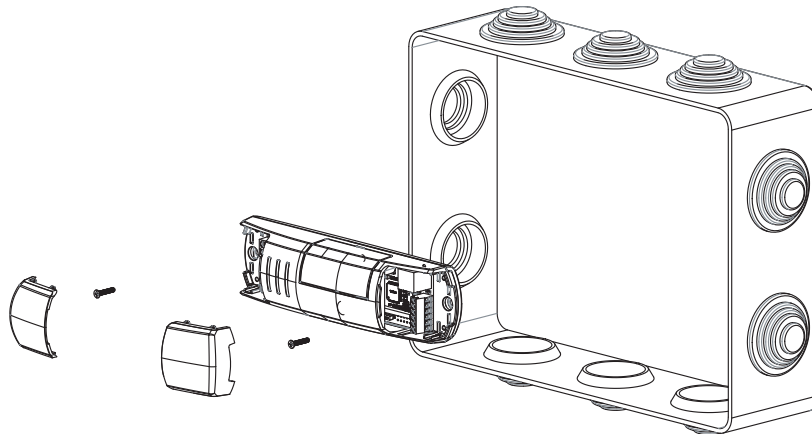
Picture 1.2a



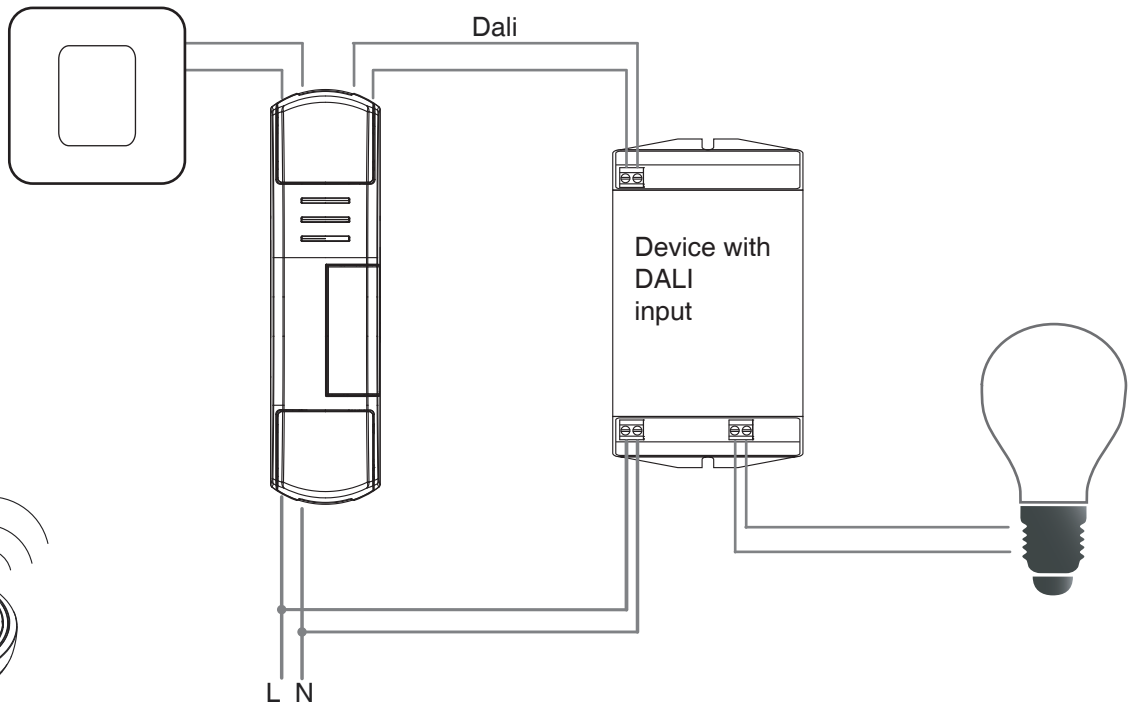
Picture 1.2b



Picture 1.2c



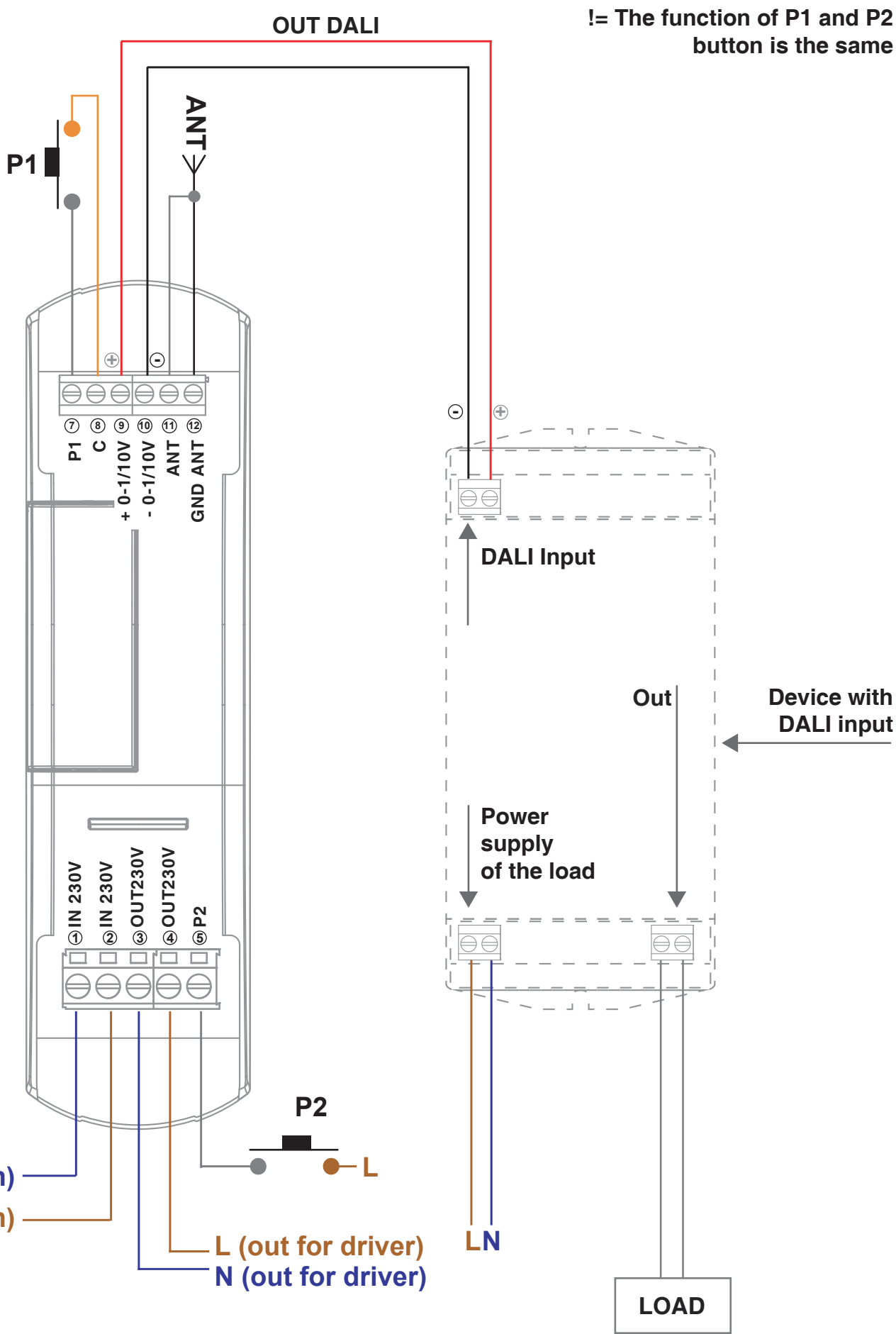
Picture 1.2d



2 ELECTRICAL CONNECTION

2.1 CONNECTION DIAGRAM

Picture 2.1



NOTE: multiple buttons or loads can be connected by using parallel cabling.

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.
- The function of P1 and P2 buttons is the same. For a better connection the common of P1 is the terminal 8, the common of P2 is the phase of the system.

TERMINAL	DESCRIPTION
1	Power supply 230V
2	Power supply 230V
3	Out 230V
4	Out 230V
5	Button P2 input
6	Button P1 input
7	Common for button P1
8	+ DALI
9	- DALI
10	Aerial sleeve
11	Aerial signal

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.

If the transmitter is of a generic type, its operation depends on the way it is programmed (see paragraph 4.1, table 4.1c).

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 1 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 different keys is shown in the following table:

	LOAD OFF	LOAD ON
INPUT P1= INPUT P2: short press	Load on	Load off
INPUT P1= INPUT P2: long press	Dimmer intensity up of load	Dimmer intensity up / Dimmer intensity down of load

4 CONTROL UNIT SETTINGS

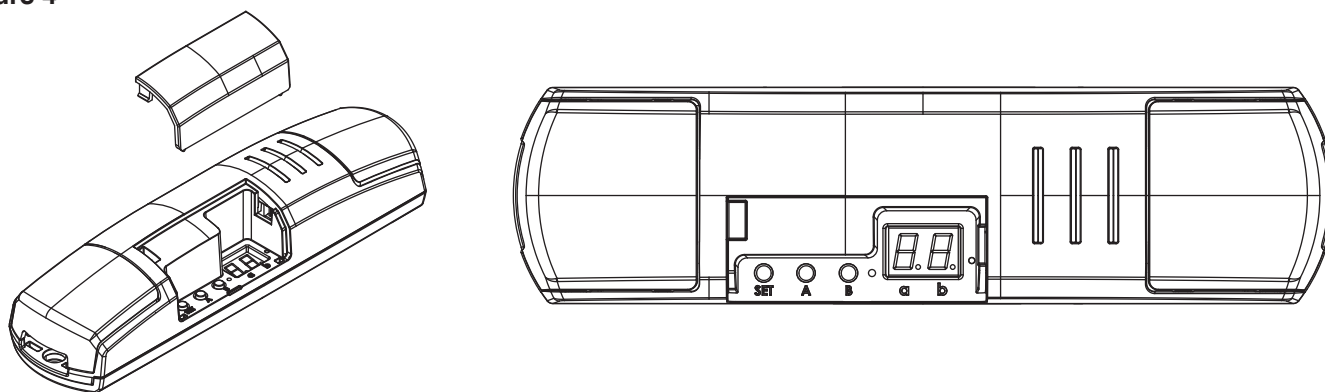
In the programming zone (see picture 4) you can access the programming menu using the keys and the display. Short presses on the "SET" key let you scroll through the different programmable functions visible on the display ("P1", "P2"...). Prolonged pressure on the "SET" key (approx. 3 seconds) allows 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
- "FS": factory setting, reset control unit

After 60 seconds' inactivity (no keys pressed), the control unit goes into stand-by with the displays switched off.

Picture 4



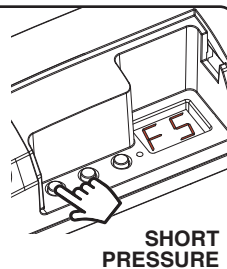
4.0 MENU "FS": FACTORY SETTING, RESET OF THE CONTROL UNIT

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

PROCEDURE:

STEP 1

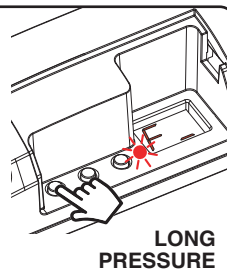
Short presses on the "SET" key let you scroll through the menu until "FS" programming appears on the display.



STEP 2

A prolonged press on the "SET" key (approx. 3 seconds) takes you into programming.

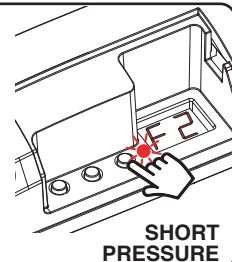
The LED on the receiver lights up



STEP 3

Make short presses on key "B" to choose the setting show on display "b":

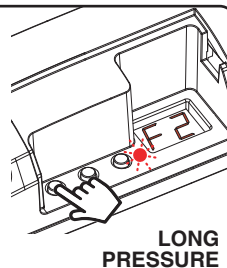
display = F1	reset factory parameters, but no deletion of already programmed transmitters
display = F2	full reset of factory parameters, even stored transmitters will be deleted



STEP 4

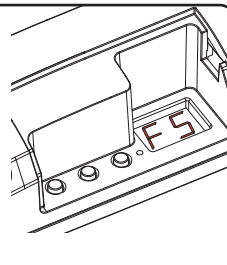
To confirm, give a prolonged press on the "SET" key (approx. 3 seconds).

The LED flashes



STEP 5

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



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:

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:

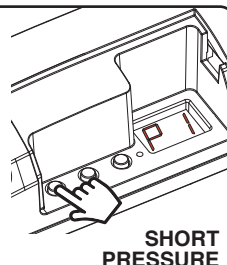
TABLE 4.1 - KEY FUNCTIONS OF THE GENERIC TRANSMITTER

NUMBER TO BE SET IN "STEP 3b" OF THE PROCEDURE	KEY FUNCTION
1	Function of pre-assigned key (see transmitter manual)
2	ON/OFF
3	ON
4	OFF
5	Dimmer UP
6	Dimmer DOWN
7	Short press: ON/OFF Prolonged press: Dimmer intensity UP/ DOWN
8	Short press: ON Prolonged press: Dimmer intensity UP
9	Short press: OFF Prolonged press: Dimmer intensity DOWN
0	Not used

PROCEDURE

STEP 1

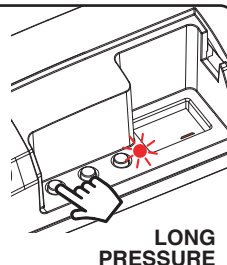
Short presses on the "SET" key let you scroll through the menu until "P1" programming appears on the display.



STEP 2

A prolonged press on the "SET" key (approx. 3 seconds) takes you into programming.

The LED on the receiver comes on



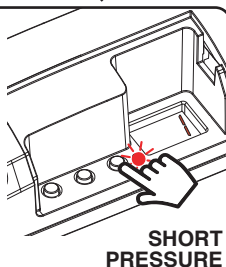
WHICH TRANSMITTER DO YOU WANT TO PROGRAMME?

MULTIFUNCTION TRANSMITTER
(see models and codes on previous page)

GENERIC TRANSMITTER
(see models and codes on previous page)

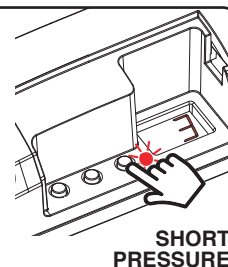
STEP 3a

Short presses on key "B" let you set value "1" on the display



STEP 3b

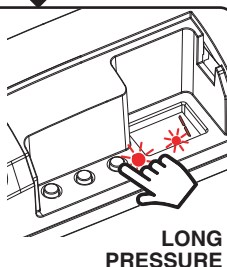
Short presses on key "B" let you choose the function you want to programme shown on the displays. See table 4.1 on the previous page.



STEP 4

Give a long press on key "B" (approx. 3 seconds).

The LED on the display comes on



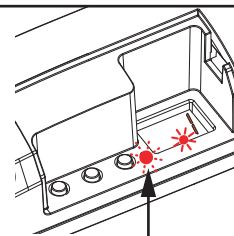
STEP 5

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

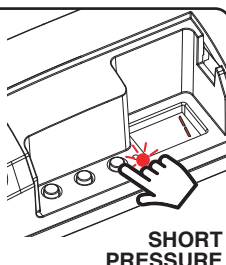


THE LED FLASHES 3 TIMES

STEP 6

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 7

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).

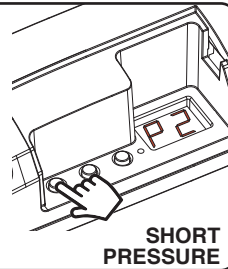
4.2 MENU "P2": DELETION OF RADIO

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

DELETION OF SINGLE TRANSMITTER CHANNEL:

STEP 1

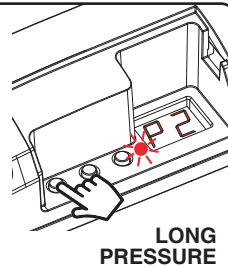
Short presses on the "SET" key let you scroll through the menu until "P2" programming appears on the display.



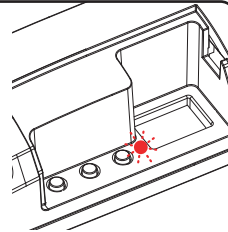
STEP 2

A prolonged press on the "SET" key (approx. 3 seconds) takes you into programming.

The LED on the receiver lights up



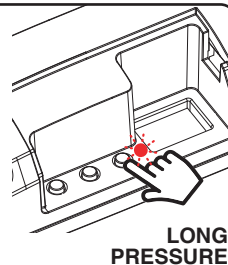
What is shown on display "a" and "b" has no influence on this procedure.



STEP 3

Give a long press on key "B" (approx. 3 seconds)

The LED on the receiver starts to flash



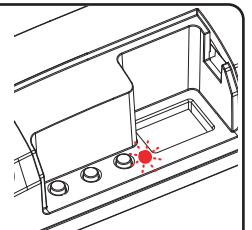
STEP 4

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

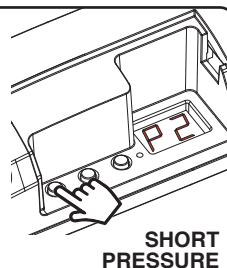
The control unit goes back to the menu displaying the radio deletion. If you want to delete other transmitters, go back to point 3 of this procedure.

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 THE SAVED TRANSMITTERS:

STEP 1

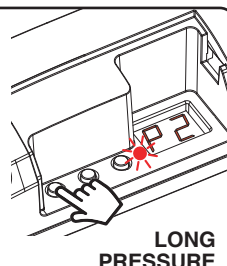
Short presses on the "SET" key let you scroll through the menu until "P2" programming appears on the display.



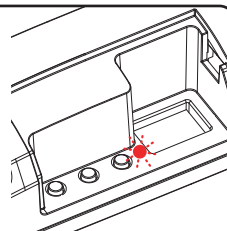
STEP 2

A prolonged press on the "SET" key (approx. 3 seconds) takes you into programming.

The LED on the receiver lights up



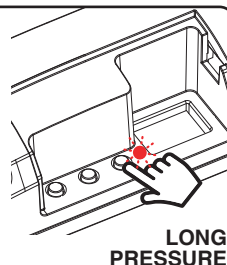
What is shown on display "a" and "b" has no influence on this procedure.



STEP 3

Give a long press on key "B" (approx. 3 seconds)

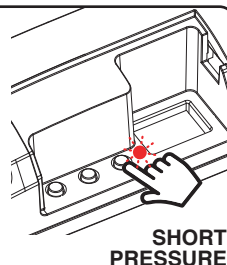
The LED on the receiver starts to flash



STEP 4

Within 5 seconds quickly press key "B" to confirm the deletion.

The LED on the receiver will flash and stay on



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)

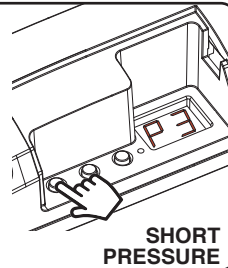
Default: all the loads come on at maximum brightness

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

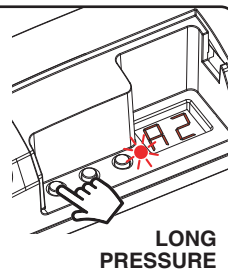
Short presses on the "SET" key let you scroll through the menu until "P3" programming appears on the display.



STEP 2

A prolonged press on the "SET" key (approx. 3 seconds) takes you into programming.

The LED on the receiver lights up

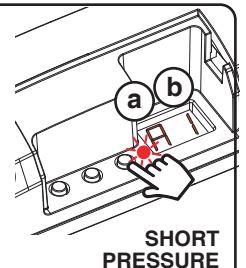


STEP 3

Display "a" always shows the letter "A" (all).

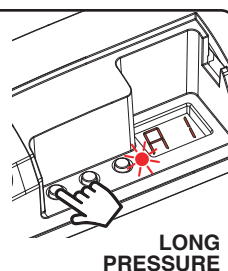
Make short presses on key "B" to choose the setting you want to set based on table alongside.

DISPLAY	SAVE FUNCTION: INTENSITY AT SWITCH-ON COMMAND
1	"SAVE" function on. The load will switch on at the last brightness value set before it was switched off
2	Switch-on of load at maximum intensity with white light



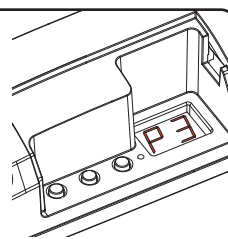
STEP 4

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



STEP 5

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



WARNING: the save function is activated/deactivated across all loads.



MNLTOP-DL20ENV1.1

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