

INSTRUCTIONS LECV1248DPB

DIMMING INTERFACES FOR VOLTAGE LED MODULES
12-24-48 VDC

Brightness regulator for LED modules 12-24-48Vdc.

Brightness adjustment through:

- push-button (PUSH),
- DALI signal,
- 0-10V signal (active),
- 1-10V signal (active),
- 100KOhm Potentiometer,
- Bluetooth signal (LEF Lighting APP).

With "LEVEL MEMORY" function and "STATUS MEMORY function".

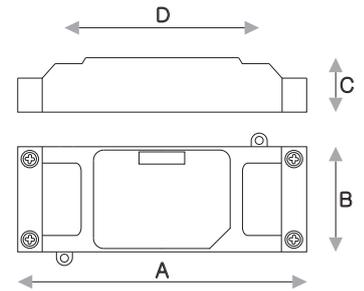
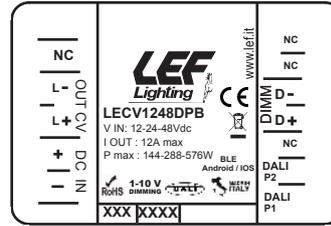
SLAVE function through LECV1248REP product.

Plastic case.

Driver for independent mounting.

Electric class protection II.

Protection degree IP20.



CODICE CODE	TENSIONE DI INGRESSO INPUT VOLTAGE (Vdc)	TENSIONE DI USCITA OUTPUT VOLTAGE (Vdc)	CORRENTE DI USCITA OUTPUT CURRENT (A)	POTENZA DI USCITA OUTPUT POWER (W)			COMANDO COMMAND	CC CV	PESO WEIGHT (g)	DIMENSIONI DIMENSIONS (mm)			
				@12Vdc	@24Vdc	@48Vdc				A	B	C	D
LECV1248DPB	12-24-48	12-24-48	12	144	288	576	PUSH DALI 0-10V 1-10V POT 100KΩ BLUETOOTH	CV	50	100	40	26	67

POWER SUPPLY AND CONNECTION TO LED MODULE

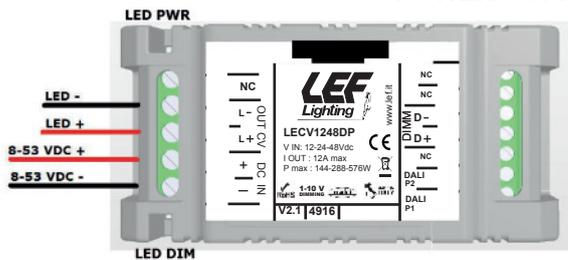


Fig.1

- The dimmer LECV1248DPB must be supplied according to the polarity shown in Fig.1 through terminals DC IN (+ and -).
- If the power supply polarity is reversed, the device is not damaged (protection against reversed polarity RPP).
- The LED (LED PWR) on the board indicates the presence of power supply.
- The LED (LED DIM) indicates the output dimming state.
- The LED connection must be completed using the terminals OUT (L+ and L-).



BLUETOOTH + PUSH OPERATING MODE

To activate this control / operation mode it is necessary to:

- Install the LEF Lighting APP on the Android or IOS device that you want to use for the dimming interface control.
- Disconnect any 0-10V (1-10V) or DALI or potentiometer inputs connected to the dimming interface.
- The PUSH and BLUETOOTH commands can be used at the same time.



Download the instruction sheet on your Smartphone / Tablet

LEF Lighting APP

The features implemented are: switching on, switching off and brightness level control for each light point.

Possibility to group and control multiple light points with a simple command. Definition and restoration of favourite light scenarios.

System management from a single simplified user interface.

LEF Lighting APP functionality (*depending on the device, only some functions may be available).

Management of 1-channel or 4-channels dimmers with different operating modes:

- Single channel,
- 4 synchronized channels,
- RGB (3 Channels or 3 zones),
- RGB + White (4 Channels or 4 zones),
- Dynamic White.

Android



iOS



- To install the APP on your Apple or Android device, frame the desired QRCode to be automatically redirected to LEF Lighting APP product sheet.

Technical Features

- Input voltage range 12-24-48Vdc
- Output voltage range 12-24-48Vdc
- Protection against reversed polarity (RPP)
- Open circuit protection (OCP)
- Overvoltage protection (OVP)
- Operating ambient temperature Ta -20°C ÷ +50°C

ATTENTION:

The installation of the product must be followed by qualified personnel.

If the product is used for purposes other than the original ones or if it is connected incorrectly, LEF Lighting S.R.L. will not accept any Responsibility for damages caused.

Reference Standards:

- EN 55015
- EN 61000-3-2
- EN 61000-3-3
- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 62493

AEE Identification nr.IT1804000010321



MADE IN ITALY

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PUSH CONNECTION



Fig.2

PUSH Interface Operation

Single Click (quick pressure (<1sec))

- Turns on or off the output (ON/OFF)

Double Click (quick pressure (<1sec))

- Sets the maximum brightness (output=100%)

Long Press (long press (>1sec))

-If the dimmer is in OFF state, sets the output to the minimum value, default=1%

-If the dimmer is in ON state, the long press allows the output dimming (increase/decrease).

- To activate this operation mode, it is required to disconnect eventual control signals from D+ and D- inputs; it is also required to connect between inputs DALI/P1 and DALI/P2 a DC/AC voltage signal (voltage range DC: 10÷265Vdc, AC: 12÷265Vac 50÷60Hz) interrupted by a normally open (N.O.) push-button.

- Input signal doesn't require polarization.

- The maximum current absorbed by PUSH interface is about 2mA.

- The dimmer saves the output status so as to restore the level set in case of power failure (preset).

0-10V/1-10V PASSIVE CONNECTION

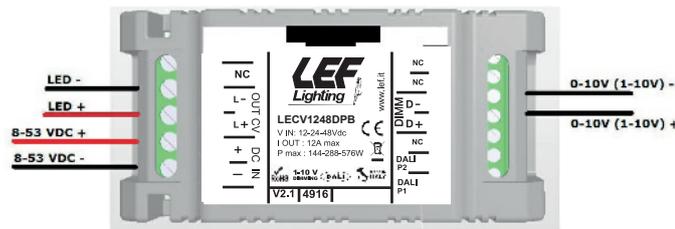


Fig.3

- The first time you start up in this mode, it may be necessary to set up the input with a value greater than 50% (5V or higher on D-D + input) in order to configure the dimmer in 0-10V / 1-10V mode.

ATTENTION: IN THIS OPERATING MODE THE BLE (Bluetooth) CONTROL IS INHIBITED !

- In order to activate this control / operation mode, it is necessary to connect the 0-10V / 1-10V active control signal between D + and D- inputs (always pay attention to the polarity) and to disconnect the remaining control signals.

- The max current absorbed by the dimmer from the 0-10V interface is 0,1mA.

- By default, the dimming curve follows a logarithmic trend proportional to control voltage. A voltage value lower than 1V is interpreted as a load off.

- If the 0-10V / 1-10V signal is disconnected, the dimmer sets the output to the level saved. The preset value is zero by default.

100 Kohm POTENTIOMETER CONNECTION

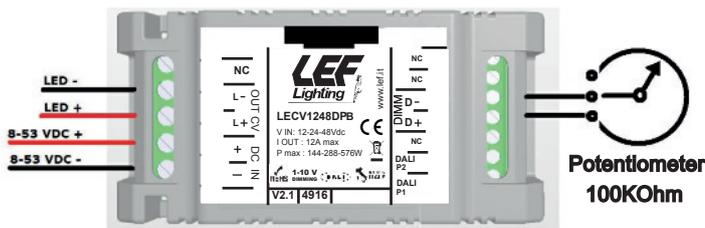


Fig.4

ATTENTION: IN THIS OPERATING MODE THE BLE (Bluetooth) CONTROL IS INHIBITED !

- In order to activate this operating mode, it is sufficient to connect a 100KOhm potentiometer between D + and D- inputs and to disconnect the other inputs.

- By default, the dimming curve follows a proportional logarithmic trend to the resistance value set by the potentiometer.

- A resistance value lower than 5KOhm is interpreted as load off.

The maximum brightness value is reached with the value of 95 KOhm.

- In case of detachment of the potentiometer, the dimmer sets the output to the saved level.

- The preset value is zero by default.

- The first time you start up in this mode, it may be necessary to set up the input with a value greater than 50% (55KOhm or higher on D-D + input) in order to configure the dimmer in potentiometer mode.

DALI CONNECTION



Fig.5

ATTENTION: IN THIS OPERATING MODE THE BLE (Bluetooth) CONTROL IS INHIBITED !

- To activate this operating mode, it is required to short-circuit D+ and D- inputs and to connect the DALI bus between DALI/P1 and DALI/P2.

- The dimmer, at the first reception of a properly formatted DALI signal, is configured in DALI mode.

Once configured in DALI mode and disconnected from the DALI bus, the dimmer switches to POWER ON LEVEL status set via the DALI bus.

- The maximum current absorbed by DALI interface is about 2mA.