USER GUIDE
LECV1248DP

Dimming interface for Voltage LED 12-24-48Vdc

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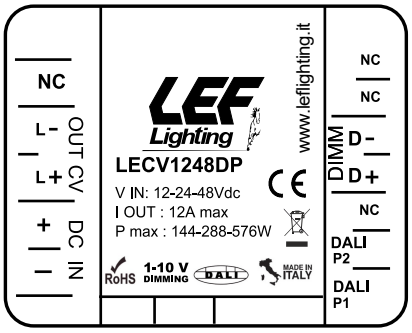
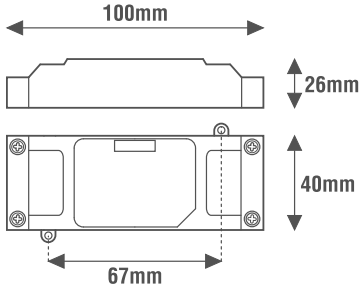


Technical Features

Input voltage range 12-24-48Vdc
Output voltage range 12-24-48Vdc
Brightness regulator for LED modules 12-24-48Vdc
Brightness adjustment through:
- push-button (PUSH 12-24-48Vdc)
- push-button (PUSH 230Vac)
- DALI signal
- 0-10V signal (active)
- 1-10V signal (active)
- 100Kohm potentiometer
Frequency of the output voltage PWM: 390Hz
«LEVEL MEMORY» and «STATUS MEMORY» function
SLAVE function through LECV1248REP product
Open circuit protection (OCP)
Protection against overtemperature (OTP)
Overvoltage protection (OVP)
Protection against reversed polarity (RPP)
Operating ambient temperature Ta -20°C ÷ +50°C



DIM POT 100KΩ | **DIM 1-10V** | **DIM 0-10V** | **DALI DT6** | **DIM DALI** | **DIM PUSH 12-24-48Vdc** | **DIM PUSH 230Vac**

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) @12Vdc	@24Vdc	@48Vdc	Comando Command	CC CV	Peso Weight (g)
LECV1248DP	12-24-48	12-24-48	12	**144**	**288**	**576**	**PUSH | DALI | 0-10V | 1-10V | POT100KΩ**	CV	50

POWER SUPPLY AND CONNECTION TO LED MODULE

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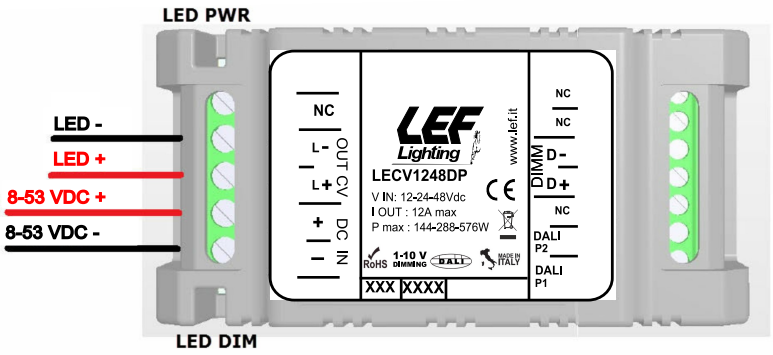

Fig.1

- Il dimmer LECV1248DP deve essere alimentato secondo la polarità indicata in Fig. 1 attraverso i morsetti DC IN (+ e -).
- Nel caso in cui la polarità di alimentazione venga invertita il dispositivo non subisce nessun danno.(protezione RPP)
- Il LED (LED PWR) presente a bordo scheda segnala la presenza di alimentazione.
- Il LED (LED DIM) indica lo stato di dimming dell'uscita
- La connessione del carico LED deve essere effettuata utilizzando i morsetti OUT (L+ e L-).

General Characteristics

Plastic case
Device for indipendent mounting
Electric class protection II
Protection degree IP20

Reference Standards

EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547
EN 62493
EN 62386-207

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.

PRODUCT TO BE DISPOSED DIFFERENTLY FROM URBAN WASTE
AEE identification nr.IT18040000010321

SELV | IP20 | ta MAX 50°C | 576 WATT | DC 12V DC 24V DC 48V | CV | 50mm

MADE IN ITALY

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PUSH CONNECTION

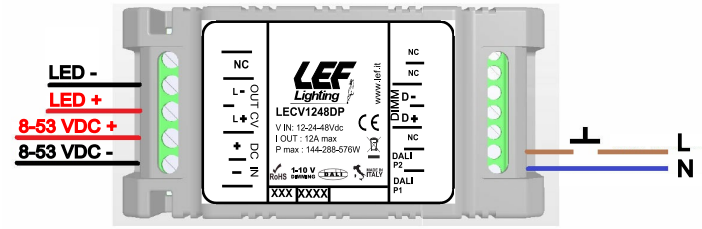

Fig.2

- 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.
- If you use a 230Vac signal, insert on the terminal P1 the NEUTRAL
- Insert on the terminal P2 the return of the PHASE passing through 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).

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).

0-10V/1-10V PASSIVE CONNECTION

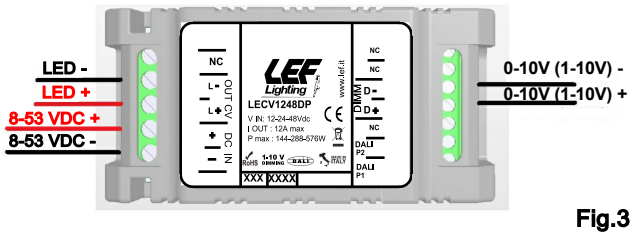

Fig.3

- 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.
- **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.**

100 Kohm POTENTIOMETER CONNECTION

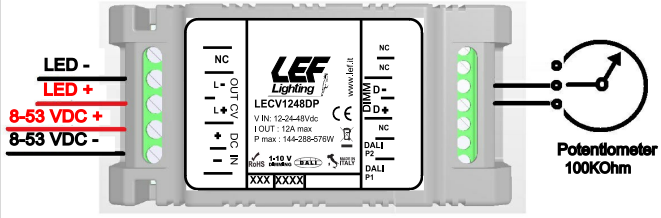

Fig.4

- 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

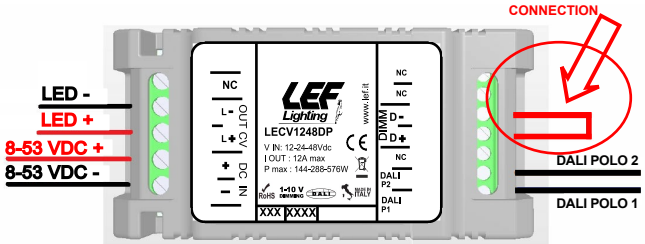

Fig.5

- 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.

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