USER GUIDE
LECV1248DPB2CH, LECV1248PB2CH, LECV1248D2CH

DIMMING INTERFACE 2 CHANNELS FOR CONSTANT VOLTAGE LED MODULES 12-24-48Vdc

LEF Lighting

Brightnesss regulator for LED modules 12-24-48Vdc.
Output channels: 2 (to manage dynamic white or 2 different channels)
Brightness adjustment through function:
-push-button (PUSH) (2CH),
-DALI signal (2CH) (LECV1248D2CH) ,
- Bluetooth signal (LEF Lighting APP) (LECV1248DPB2CH and
LECV1248PB2CH).
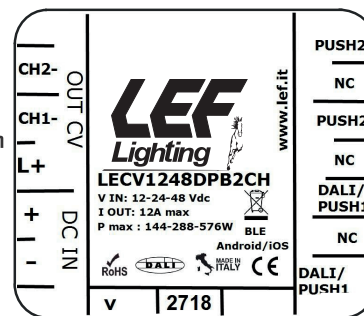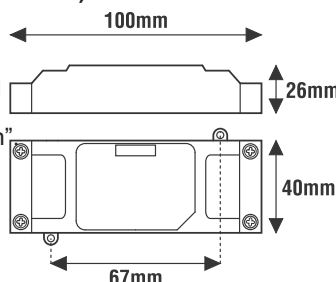With "LEVEL MEMORY" function and "STATUS MEMORY function".
SLAVE function through LECV1248REP product.
Plastic case.
Driver for independent mounting.
Electric class protection II.
Protection degree IP20.

100mm · 26mm · 40mm · 67mm

CH2- | OUT CV
CH1-
L+
+ | DC IN
-

PUSH2
NC
PUSH2
NC
DALI/PUSH1
NC
DALI/PUSH1

www.lef.it
LEF Lighting
LECV1248DPB2CH
V IN: 12-24-48 Vdc
I OUT: 12A max
P max : 144-288-576W
BLE Android/iOS
RoHS DALI MADE IN ITALY CE
v | 2718

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	Funzione Function	CC CV	Peso Weight (g)
			CH1	CH2	@12Vdc	@24Vdc	@48Vdc				
LECV1248DPB2CH	12-24-48	12-24-48	6	6	**72**	**144**	**288**	**PUSH (2CH)	Bluetooth**	bianco dinamico	CV	50
LECV1248PB2CH								**PUSH (2CH)	Bluetooth**	2CH separati		
LECV1248D2CH								**DALI**	2CH separati		

POWER SUPPLY AND CONNECTION TO LED MODULE

LED PWR
LED - CH2
LED - CH1
LED +
8-53 VDC +
8-53 VDC -

CH2- | OUT CV
CH1-
L+
+ | DC IN
-

PUSH2
NC
PUSH2
NC
DALI/PUSH1
NC
DALI/PUSH1

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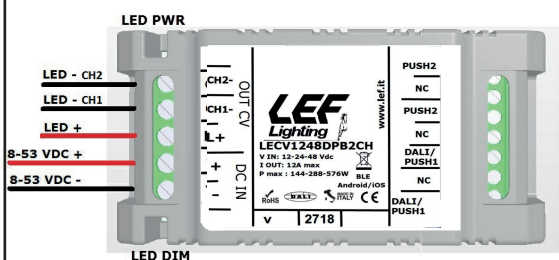v | 2718

LED DIM

Fig.1

- The dimmer LECV1248XXX2CH 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 CH1- and CH2-).

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.
- The PUSH and BLUETOOTH commands can be used at the same time.

APPLICAZIONE 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 Lighing 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)
- Overtemperature protection (OTP)
- 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

CE | SELV | IP20 | ta MAX 50°C | 288 WATT | DC 12V DC 24V DC 48V | CV | 50mm

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LEF Lighting

DYNAMIC WHITE PUSH + BLUETOOTH CONNECTION

Fig.2

- To activate this operation mode, it is required to connect between the 2 inputs DALI/PUSH1 and between the 2 inputs PUSH2 a DC/AC voltage signal (voltage range DC: 10÷265V, AC: 12÷265Vac 50÷65Hz) 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.
- PUSH1 input controls color temperature.
- PUSH2 input controls light intensity.
- The dimmer saves the output status so as to restore the level set in case of power failure (preset).

PUSH 2 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).

PUSH 1 Interface Operation

Long Press (long press (>1sec))
- **Color temperature change**
(For example Warm White Light→ Cold White Light and
Cold White Light → Warm White Light)

2 DIFFERENT CHANNELS - PUSH + BLUETOOTH CONNECTION
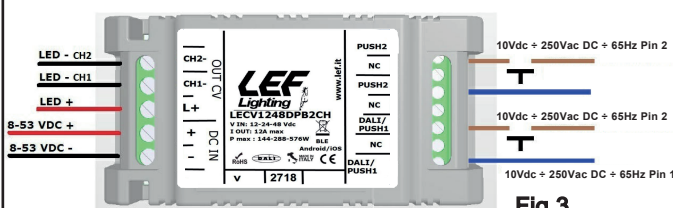

Fig.3

- To activate this operation mode, it is required to connect between the 2 inputs DALI/PUSH1 and between the 2 inputs PUSH2 a DC/AC voltage signal (voltage range DC: 10÷265V, AC: 12÷265Vac 50÷65Hz) 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).

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).
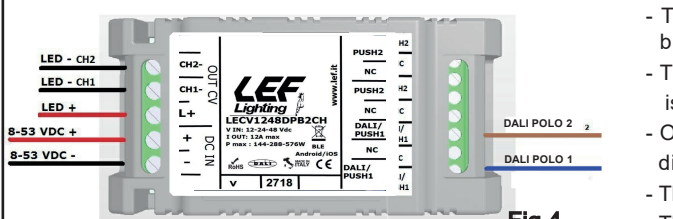
2 CHANNELS - DALI CONNECTION

Fig.4

- To activate this operating mode, it is required to connect the DALI bus between the 2 inputs DALI/PUSH1.
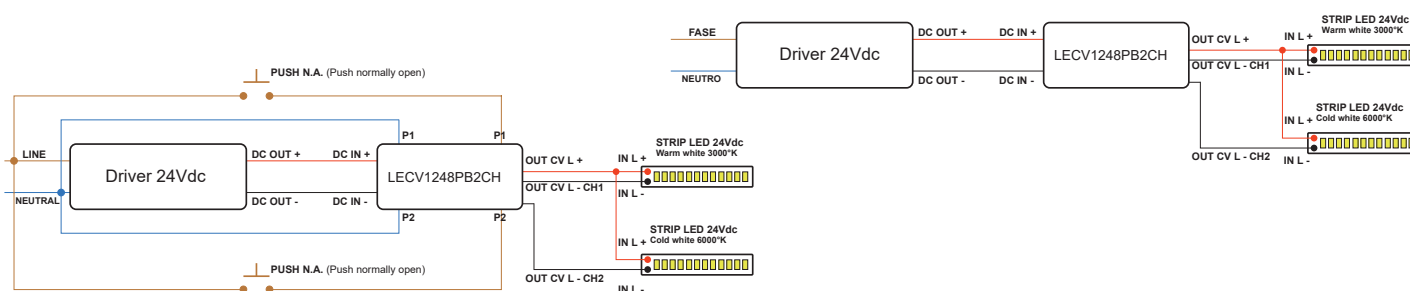- The dimmer, at the first reception of a properly formatted DALI signal, is configured in DALI mode.
- Once configured in DALI mode and disconnected from the DALI bus, the dimmer switches to POWER ON LEVEL status set via the DALI bus.
- The maximum current absorbed by DALI interface is about 2mA.
- The device is detected by the DALI bus as 2 independent devices: acting on each of them, you can set the brightness levels of the two output channels.

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

PUSH-BUTTON (PUSH) + BLUETOOTH 2 DIFFERENT CHANNELS (WIRING DIAGRAM)