

# USER GUIDE

## MINI-LEDL-D/P

///////HIGH PERFORMANCE



Dimming interface for voltage LED 12-24-48Vdc (CV)

### 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 230Vac)  
 - push-button (PUSH 12-24-48Vdc)  
 - DALI signal  
 - 1-10V signal  
 (setting by jumper)  
**Frequency of the output voltage PWM: 2000Hz (2KHz)**  
 Open circuit protection (OCP)  
 Protection against overtemperature (OTP)  
 Short circuit protection (SCP)  
 Operating ambient temperature  $T_a$  -25°C + +45°C  
 Max case temperature on  $T_c$  75°C

### General Characteristics

Plastic case  
 Device for independent mounting  
 Electric class protection II  
 Protection degree IP20  
 New High Frequency technology (2KHz) to improve the quality of light in video shooting



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| DIMMING JUMPER  |   |   |   |
|-----------------|---|---|---|
| Comando Command | 1 | 2 | 3 |
| 1-10V           | ○ | ○ | ○ |
| PUSH            | ○ | ○ | ○ |
| DALI            | ○ | ○ | ○ |



| 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) |
|---------------|--|---|---------------------------------------|--------|--------|------------------------------------|--------|--------|---------------------|-------|-----------------|
|               |  |   | @12Vdc                                | @24Vdc | @48Vdc | @12Vdc                             | @24Vdc | @48Vdc |                     |       |                 |
| MINI-LEDL-D/P | 12-24-48                                 | 12-24-48                                | 6                                     | 6      | 6      | 72                                 | 144    | 288    | PUSH   DALI   1-10V | CV    | 50              |

#### Memory of the last data dimming:

In presence of network, at each ON, the driver starts from the last data set.

#### Restart after mains failure:

- In PUSH dimmer mode, it starts from the last data set.
- In DALI dimmer mode, it starts from the last data set.

#### Default DALI (factory configurations):

- Power on: 100%
- System fail level: 100%

### OPERATING MODE

There are three distinct modes of operation read on startup (the settings have to be made by jumper before ignition):

**PUSH, DALI, 1-10V.**

#### 1) PUSH MODE (setting trough jumper between pins 2 and 3)

- Short press the push button for ON/OFF (on and off ramps)
- Long press the push button to increase or decrease light intensity (2-100%). Regulation automatically stops at minimum and maximum values - for another regulation or off command, release the push button and give the desired command again.
- Memory of the last data dimming. At each ON the driver starts from the last data set
- **Method of resynchronisation** (sometimes the system could be out of sync, i.e. Some lamps will be on, others off, etc.). In OFF/ON position press the Push key for a long time (30 sec), the driver will be 100% and the system will now be resynchronised
- Total length of PUSH cables: 15m

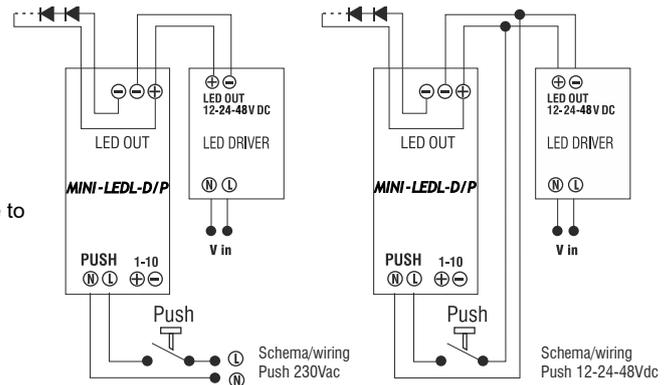
#### 2) DALI MODES (Setting removing the jumper)

- The dimming level is set by the DALI signal value sent

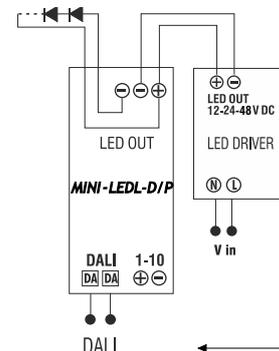
#### 3) 1-10V MODE (setting trough jumper between pins 1 and 2)

- It is possible to use commercial 1-10V dimmers. LED brightness varies proportionally to the signal sent to the terminal .
- It is possible to use 100KOhm potentiometers. LED brightness change is proportional or logarithmic depending on the potentiometer model (recommended logarithmic type).

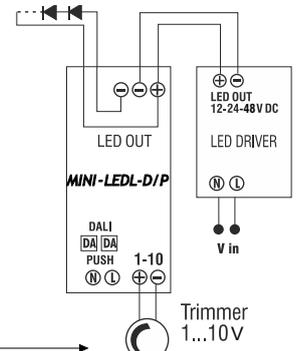
#### Wiring diagram PUSH



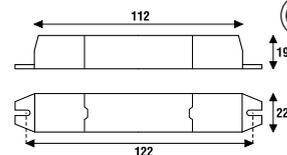
#### Wiring diagram DALI



#### Wiring diagram trimmer, 1/10V



**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 61347-1
- EN 61347-2-13
- EN 61547
- EN 62384
- EN 62386-207



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

MADE IN ITALY

|             |             |          |                            |           |                      |                 |
|-------------|-------------|----------|----------------------------|-----------|----------------------|-----------------|
| DALI DT6    | DIM DALI    | DALI 2   | JUMPER                     | DIM 1-10V | DIM PUSH 12-24-48Vdc | DIM PUSH 230Vac |
| ta MAX 50°C | tc MAX 75°C | 288 WATT | DC 12V<br>DC 24V<br>DC 48V | CV        | 30mm                 |                 |



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