USER GUIDE
LEDL-D/P

2022 VERSION
HIGH PERFORMANCE

LEF Lighting

Dimming interface for voltage LED 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,
- 1-10V signal (active or passive),
- 0-10V signal (active or passive),
- potentiometer 100KOhm (logarithmic)
(settings by dip-switch).
With «LEVEL MEMORY » and «STATUS MEMORY» function.
Ability to select PWM frequency 244Hz or 2000Hz (2KHz)
SLAVE version only for signal repetition (LEDL-S).
PWM OUT: 2000Hz (HIGH PERFORMANCE).

NOTE: In the case of incorrect setting of the DIP-SWITCH , at power up, the interface switches ON and causes the LED to flash with a frequency of 1 sec ON and 1 sec OFF.

Operation
DALI, PUSH, 0-10V / 1-10V, SLAVE.

The operating mode is selected through the DIP-SWITCH which is located beneath the terminal cover (see the side table).
- 0-100% Logarithmic brightness adjustment, with DALI signal, with push-button, 0-10V or 1-10V interface (the lowest level in PUSH modality is different from 0 to distinguish it from OFF).

General Characteristics

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

DIMMING DIP-SWITCH					
Comando / Command	1	2	3	4	5
ON/OFF	-	-	-	-	-
Push Slow	ON	-	-	-	-
Push Fast	-	ON	-	-	-
Push Up/Down	ON	ON	-	-	-
DALI	-	-	ON	-	-
1-10V for passive resistor	-	ON	ON	-	ON
1-10V for active systems	-	ON	ON	-	-
0-10V for active active	ON	-	ON	-	-
0-10V for passive systems	ON	-	ON	-	ON
Slave	ON	ON	ON	-	-
Output PWM freq. 244Hz	X	X	X	-	X
Output PWM freq. 2KHz	X	X	X	ON	X

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	Versione Version	CC CV	Peso Weight (g)
				@12Vdc	@24Vdc	@48Vdc				
LEDL-D/P	12-24-48	12-24-48	12	**144**	**288**	**576**	**PUSH | DALI | 0-10V | 1-10V**	**MASTER - SLAVE**	CV	100
LEDL-S							**-**	**SLAVE**		

OPERATING MODE

There are distinct modes of operation read on startup (the settings have to be made by dip-switch before powering on)
1) **ON/OFF** (no dimming) (factory settings)
2) **PUSH** (push-button) **dimming (control OFF , 2-100%) three profiles:** SLOW, FAST, UP/DOWN;
3) **DALI** (**control OFF, 2-100%**) - Power on: 100% - System fail level:100%
4) **1-10V Dimming, brightness reduction until reaching a preset minimum without switching off;**
5) **0-10V Dimming, brightness reduction until completely shut off;**
6) **SLAVE.**

The operating modes PUSH, DALI, 0-10V and 1-10V are alternatively between them.
- Time dimming (0-100%; 100-0%): SLOW profile=8 seconds, FAST profile=5 seconds; UP/DOWN profile=8 seconds;
- Low level in PUSH modality is different from 0 to distinguish it from OFF.

Restart after a power failure:
- In ON/OFF modality, it starts from ON;
- In 0-10V or 1-10V dimmer mode, the input value is read and ON according to the scheduling;
- 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 configuration):
- Power on: 100%
- System fail level: 100%

TECHNICAL FEATURES

INPUT:

Supply voltage: 12-24-48Vdc
Terminal 1 x 2,5 mmq.
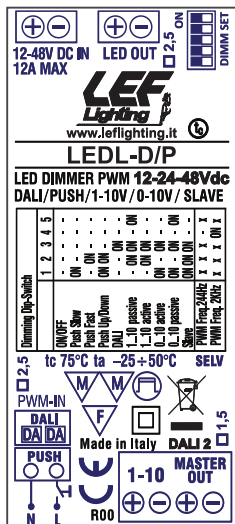Cable clamp for cable diameter Ø = 4...6 mm

OUTPUT:

Output voltage: 12-24-48Vdc
SELV insulation
Terminal 1 x 0,5...1,5 mmq
Cable clamp for cable diameter Ø = 3...8 mm.
NB: Output power must be supplied by a single driver!

Maximum temperature on Tc point 75°C

Maximum ambient temperature:Ta -10°C ÷ 50 °C

PUSH MODE (Settings by DIP-SWITCH)
- Short pressure on push-button for ON/OFF modality (on and off ramps).
- Long pressure on push-button for DIMMER modality. Three profiles.

SLOW PROFILE (Settings by DIP-SWITCH)
- Press the push-button, the dimming starts up to the maximum (or minimum) and then, after 1s, reverses.
  Time from minimum to maximum: 8 seconds.

FAST PROFILE (Settings by DIP-SWITCH)
- Press the push-button, the dimming starts up to the maximum (or minimum) and then, after 1s, reverses.
Time from minimum to maximum: 5 seconds.

UP/DOWN PROFILE (Settings by DIP-SWITCH)
- Press the push-button, the dimming reverses its direction. Arrived to the minimum (or maximum) , the status is maintained.
  Time from minimum to maximum: 8 seconds.

- 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-button for a long time (30sec), the drivers will be 100% and the system will now be resynchronised.

- Maximum total cable length to retractive switch (PUSH): 15 m.
- Maximum number of SLAVE devices: 10.

DALI MODE (Settings by DIP-SWITCH)
-DALI Interface: limit for the control input current is 2mA in receiv mode, at least 250mA in transmission mode.

1-10V MODE (Settings by DIP-SWITCH)
- You can use commercial dimmer 1-10V. The LED brightness varies proportionally to the signal sent to the terminal from 2 to 100%.
- You can use 100K potentiometers. The variation in the brightness of the LEDs is in proportional or logarithmic depending on the model used potentiometer (recommended logarithmic).
- Set the dip-switch 5 to position ON for resistive potentiometers: Iout max 1,4mA.
- Set the dip-switch 5 to position OFF for active systems (Konnex interface, EIB, potentziometer touch screen, PC, Domotic Systems, ecc.): impedance 100K.

0-10V MODE (Settings by DIP-SWITCH)
- You can use systems 0-10V. The LED brightness varies from 0 to 100% proportionally to the signal sent to the terminal.
- Set the dip-switch 5 to position OFF. Impedance 100K.
- setting dip-switch 5 to ON it still have the possibility to turn off completely even using resistive potentiometers: Iout max 1,4mA

SLAVE MODE (Settings by DIP-SWITCH) :
- You can use LEDL-D/P as SLAVE.

SLAVE B MODE (only for LE42DP) :
 - You can use LEDL-D/P as SLAVE with LE42DP as MASTER.

LEDL-D/P
LED DIMMER PWM 12-24-48Vdc
DALI/PUSH/1-10V / 0-10V / SLAVE

MADE IN ITALY

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DALI MODE	PUSH 230Vac MODE	PUSH 12-24-48Vdc MODE	0-10V/1-10V MODE

Use the LEDL-D/P as SLAVE

You can use the LEDL-D/P as SLAVE.
- Set to ON the 1, 2, 3 positions of the dip-switch. Set to OFF positions 4,5.
- The terminal for input 1-10V signal is used as input for MASTER OUT signal.
- You can connect up to 10 Slaves.

Use the LEDL-S

Use the LEDL-S following the diagram.

150mm · 25mm · 38mm · 156mm

MASTER/SLAVE MODE

max 100mt · max 100mt · max 5 Slave · LEDL-S · LEDL-S · max 10 Slave · max 10 Slave

Reference Standards
EN55015
EN61347-1
EN61347-2-13
EN61547
EN62384

Use of LE42DP or LE20DP driver as MASTER

You can use the LE42DP or LE20DP as MASTER , in this case you can use as SLAVE only LEDL-D/P set as SLAVE.

USE OF LE42DP DRIVER AS MASTER

N.B.!

LE20DP as SLAVE · LE42DP as SLAVE · LEDL-S

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							SELV	IP20		ta MAX 50°C	tc MAX 75°C	576 WATT	DC 12-24-48Vdc	CV	45mm

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