

USER GUIDE

Code: MINI-LEDL-P

DIMMING INTERFACE FOR VOLTAGE LED MODULES 12-24-48Vdc



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

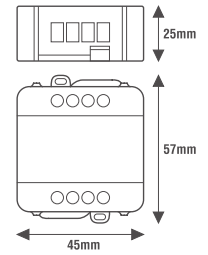
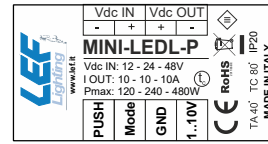
Brightness adjustment with: push-button (PUSH), signal 1-10V, 100Kohm potentiometer.

Operating mode: MASTER or SLAVE.

Automatic load adjustment that limits the maximum power (10A@12Vdc - 10A@24Vdc - 10A@48Vdc).

With "MEMORY LEVEL" and "MEMORY STATE" functions.

Plastic and reduced size case. Electric class protection III. 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)
			@12Vdc	@24Vdc	@48Vdc	@12Vdc	@24Vdc	@48Vdc			
MINI-LEDL-P	12-24-48	12-24-48	10	10	10	120	240	480	PUSH 1-10V POT100kΩ	CV	35

PUSH MODE WITHOUT MEMORY
Connect the push-button between PUSH input and ground (GND), connect MODE input and 1..10 input to ground (GND). Starting from disabled load condition, pressing the push-button, the load activates at the value previously stored in memory. Holding the push-button pressed, the brightness increases; releasing the push-button and then pushing it again, the brightness decreases. Pressing the push-button for a short time, the load goes off or lights up at the brightness value it had when it was switched off. Each restart after a Switching Supply power failure, returns the interface in OFF modality.

PUSH MODE WITH MEMORY
Connect the push-button between PUSH input and ground (GND). Unlike the previous mode, each restart after a Switching Supply power failure returns the interface to the state where power was removed. So, if it was off at that moment, it will be in the off state. Instead, if it was on at that moment, it will find itself at the brightness value it had when it was switched off.

SLAVE MODE
This mode is activated by connecting a jumper between MODE input and ground (GROUND). As a result, we obtain a brightness value proportional to the pwm signal duty cycle (i.e. the duty cycle of the PUSH input PWM signal). So it is required to connect a PWM signal between PUSH input and ground (GND).

SLAVE MODE WITH 2 DRIVERS
This mode is activated by connecting a jumper between MODE input and ground (GROUND). As a result, we obtain a brightness value proportional to the pwm signal duty cycle (i.e. the duty cycle of the PUSH input PWM signal). So it is required to connect a PWM signal between PUSH input and ground (GND).

1-10V MODE / 100 KΩ POTENTIOMETER

This mode is activated by connecting a jumper between PUSH input and ground (GROUND) (as in Fig.1). As a result, we obtain a brightness value proportional to the 1-10V INPUT voltage level. 1V is the minimum value, so if the input voltage is lower than this value, the output will result disabled. In addition to this operating mode, it is possible to set the output current by connecting a resistor between 1-10V

INPUT and ground (GROUND). Such mode is available when the power supply is 24Vdc and 48Vdc. Here below the list of programming resistor values vs related outputs: 100% > 68 KOhm, 80% 41 KOhm, 60% 27 KOhm, 40% 16500 Ohm, 20% 9200 Ohm, 10% 5600 Ohm, 0% <3000 Ohm. As an alternative, it is possible to use a 100KOhm potentiometer).

Provide an external fuse and cable section, suitable for the load type

Fig.1 Example of 1..10V connection
Fig.2 Example of potentiometer connection

TECHNICAL FEATURES

Input voltage range: 12-24-48Vdc

Output voltage range: 12-24-48Vdc

PWM dimmer frequency: 300Hz

Operating ambient temperature: Ta -20°C + 40 °C

Max case temperature on Tc 80°C

Protection against overtemperature (OTP)



PRODUCT TO BE DISPOSED DIFFERENTLY FROM URBAN WASTE

AEE Identification nr.IT1804000010321

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.

MADE IN ITALY

Reference Standards

- EN 55015
- EN 61000-3-2
- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 62384



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