

USER MANUAL L400MA0PT1A10-UL

SUBJECT INDEX:

DESCRIPTION

TECHNICAL SPECIFICATION

DEVICE POWER SUPPLY AND CONNECTION TO THE LED MODULE

DALI MODE 2

L400MA0PT1A10-UL

Dimmer CV UL Independent DALI 2

Monochannel Dimmers with Output Voltage PWM.

DALI2 certified input control (IEC 62386).

Input Range: 8-48V DC.

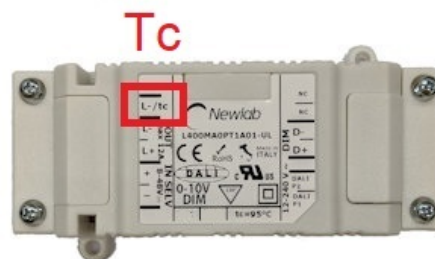
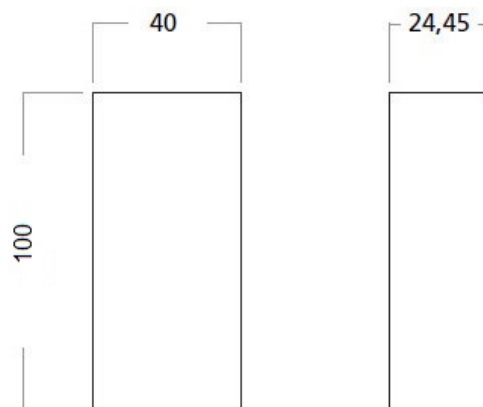
Output Voltage PWM 8-48V DC with current from 0A to 12A (576W at 48V DC).

Input Controls	
Type	Qty
DALI2	1

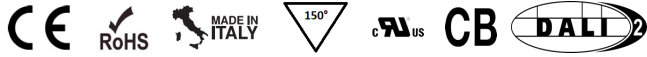
Output Sync	
Type	Qty
PWM	1

TECHNICAL NOTES

- Provided with connection cover and clamping screws for cables.
- Monochannel Dimmers with Output Voltage PWM.
- DALI2 certified input control (IEC 62386).
- Input Range: 8-48V DC.
- Power 144W @ 12V, 288W @ 24V, 576W @ 48V.
- The device is not equipped with earth connection
- Protection against accidental contact with live parts is guaranteed by the enclosure.
- Output Voltage PWM 8-48V DC with current from 0A to 12A (576W at 48V DC).
- Input Controls: DALI2 x1.
- Output Sync: PWM x1.
- Input type isolated, Output type not isolated.
- PWM Frequency: 390 Hz.
- Thermal foldback: 150 C. Degrees on uC.
- Storage Temperature Min: -40 Max: 60 C. Degrees.
- Working Temperature Min: -20 Max: 50 C. Degrees.
- Protection Class: IP20.
- Weight: 44 gr.
- Standard Dimension 40x100x24.45 mm.
- Reverse polarity protection.
- Open circuit protection.
- Surge voltage protection.
- Over temperature protection.
- To supply the device you have to use a SELV power supply in order to maintain the required electrical security level.
- All connections must be made with non-live devices and carried out by specialized personnel.
- Use only in dry and damp conditions.
- To remove the wires release the terminal screws.
- The cross-section conductors of power input (DC IN), output to the load (OUT CV) DALI2 interface (DALI/P1 DALI/P2) is 14-26 AWG (0.75 - 1.0 mm² IEC STANDARD).
- The unit shall be used in conjunction with a LED controlgear separately approved according to IEC/EN 61347-2-13, SELV output, Constant voltage, Short-Circuit proof.
- Tc point Max: 95 Celsius degree.
- Tc is located on the screw corresponding to the indication Tc in the figure.
- CAUTION More than one power supply present / Plus d'un bloc d'alimentation présent.
- UL Certified File Number: E511343.

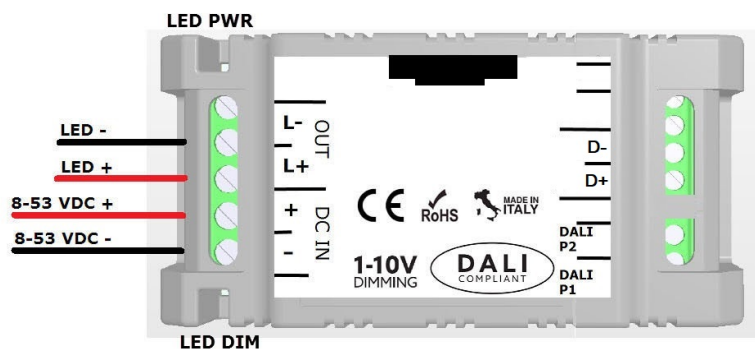


- IECEE CB Certified by UL. CB Test report Number: DK-93122-UL.



CODE	INPUT VOLTAGE	(MAX) OUTPUT CURRENT	N. OUTPUT CHANNELS	MAX OUTPUT POWER	CONTROL INPUTS	CASE	DIMENSION mm
L400MA0PT1A10-UL	8-48V DC	12A	1	576W at 48V DC	DALI2 x1	YES	40x100 h 24.45

DEVICE POWER SUPPLY AND CONNECTION TO THE LED MODULE



POWER SUPPLY CONNECTION DIAGRAM AND LED L400MA0PT1A10-UL - FIGURE N. 1

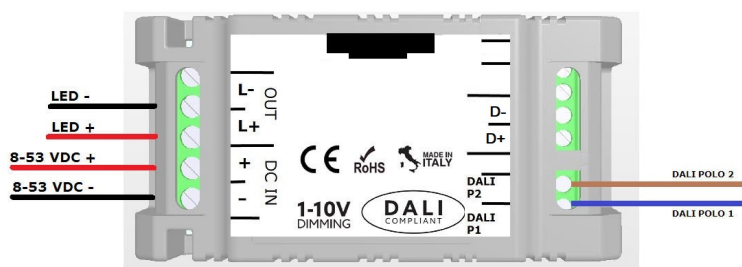
The L400MA0PT1A10-UL dimmer has to be powered according to the polarity showed in FIG. 1 through the DC IN (+ and -) terminals.

In case the power supply polarity is inverted no damage will be caused to the device .

The LED (LED PWR) positioned on the circuit board indicates the presence of power supply.
The LED (LED DIM) shows the dimming level of the output.

The LED load connection has to be made by using the OUT (L+ and L-) terminals.

DALI MODE 2



DALI L400MA0PT1A10-UL WIRING - FIGURE N. 2

Connect the DALI bus between the DALI/P1 and DALI/P2 inputs.

The maximum current absorbed by the DALI bus is about 2mA.

The detection of the Open Load is optional and is foreseen only for loads higher than 2A (100% output).

This function can be enabled by short-circuiting the DIMM D + and DIMM D- poles of the terminal block on the dimmer.

Given the different nature of the LED loads, it is advisable to enable this function only after appropriate bench tests with final load.

Remember that, in compliance with the DALI standard, the open load management is managed from 100% up to a minimum of 5 %.

It is therefore advisable to carry out the test even at brightness set up to 5%.

Manual update 25/03/2021