

# USER MANUAL L458MA04T1A01

## *SUBJECT INDEX:*

DESCRIPTION

TECHNICAL SPECIFICATION

DEVICE POWER SUPPLY AND CONNECTION TO THE LED MODULE

PUSH MODE

WIFI MODE + PUSH

WIFI + DMX

FACTORY RESET

# L458MA04T1A01

Mono channel constant voltage WIFI/PUSH and DMX out on ARTNET

Monochannel Dimmers with Output Voltage PWM.

Input Range: 8-53V DC.

Output Voltage PWM 8-53V DC with current from 0A to 12A (576W at 48V DC).

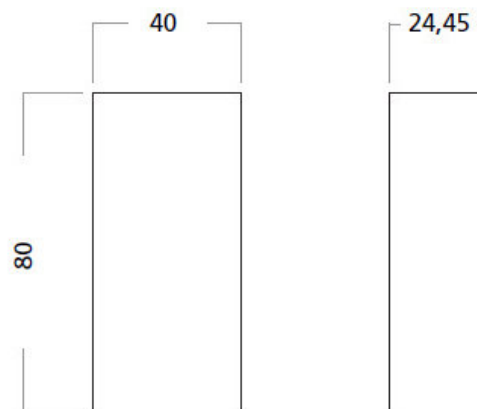
Controllable with Android/iOS app Omni.

Input Controls	
Type	Qty
Insulated Push button	1
Wifi	1

Output Sync	
Type	Qty
DMX512	1
PWM	1

## TECHNICAL NOTES

- Monochannel Dimmers with Output Voltage PWM.
- Input Range: 8-53V 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.
- Power Connector Cross-section of conductors 14-30 AWG (0.05-2.08 mmq).
- Interface Connector Cross-section of conductors 15-30 AWG (0.05-1.65 mmq).
- Output Voltage PWM 8-53V DC with current from 0A to 12A (576W at 48V DC).
- Controllable with Android/iOS app Omni.
- Input Controls: Insulated Push button x1, Wifi x1.
- Output Sync: DMX512 x1, PWM x1.
- 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.
- Printed Circuit UL.
- Protection Class: IP20.
- Weight: 44 gr.
- Standard Dimension 40x80x24.45 mm.
- Dimension with accessories 40x100x24.45 mm.
- Works with Hey Google.
- Compatible with Amazon Alexa Voice Assistant through the skill Newlab.
- Works with IFTTT.
- Open circuit 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.
- If the control voltage of the PUSH input is higher than the SELV voltage it is necessary to use the OPTIONAL terminal / cable cover to keep the product in CLASS II.
- Use only in dry conditions.
- Google and all related marks are trademarks of Google Inc. or its affiliates.
- Amazon, Alexa, and all related marks are trademarks of Amazon.com, Inc.



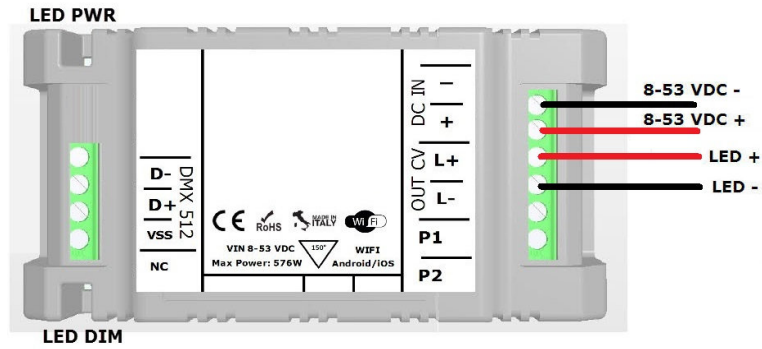
or its affiliates..

- IFTTT and all related marks are trademarks of IFTTT Inc. or its affiliates.



CODE	INPUT VOLTAGE	(MAX) OUTPUT CURRENT	N. OUTPUT CHANNELS	MAX OUTPUT POWER	CONTROL INPUTS	CASE	DIMENSION mm
L458MA04T1A01	8-53V DC	12A	1	576W at 48V DC	Insulated Push button x1 Wifi x1	YES	40x80 h 24.45

## DEVICE POWER SUPPLY AND CONNECTION TO THE LED MODULE



POWER SUPPLY CONNECTION DIAGRAM AND LED L458MA04T1A01 - FIGURE N. 1

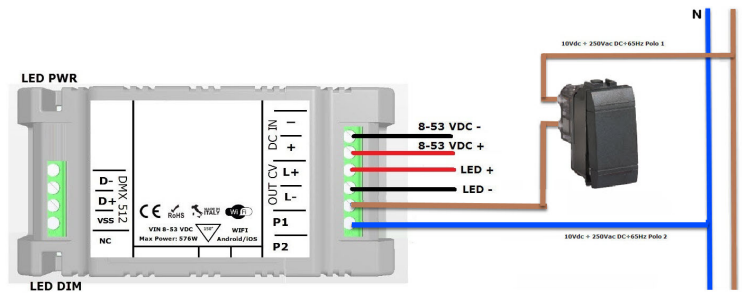
The L458MA04T1A01 dimmer has to be powered according to the polarity showed in FIG. 1 through the DC IN (+ and -) terminals.

The LED (LED PWR) positioned on the circuit board indicates the presence of power supply and the status of Wifi Connection

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.

## PUSH MODE



WIRING BUTTON L458MA04T1A01 - FIGURE N. 2

Connect between the P1 and P2 inputs, a signal in direct or alternating voltage (DC voltage range: 10÷265V, AC 12÷265Vac 50÷65Hz) interrupted by a normally open button (N.O.). No polarization is needed for the input signal.

The maximum current absorbed by the PUSH interface is about 2mA.

### PUSH interface operation

*Single Click (rapid press (<1sec))*

- Turns on or off the output (ON/OFF).

*Double Click (rapid press (<1sec))*

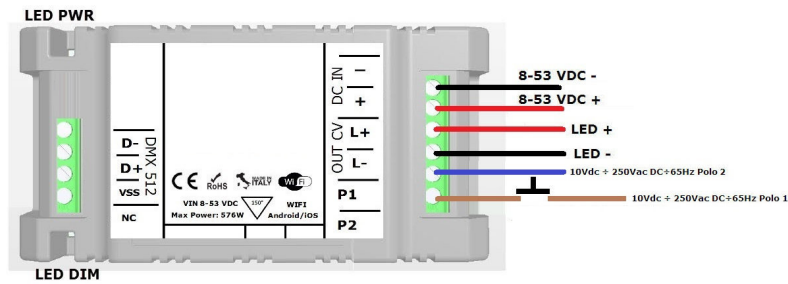
- Sets maximum brightness (output= 100%)

*Long Press (long press (>1sec))*

- If the dimmer is in OFF position, it sets the output to the minimum value (default= 1%)

- If the dimmer is in ON position, the long press enables the output dimming (up/down).

## WIFI MODE + PUSH



WIFI L458MA04T1A01 WIRING - FIGURE N. 3

The device can be controlled via Omni app available for Android / iOS

The implemented features are:

Easy joining to your Wifi Network via BLE.

Switching on and off and the brightness level control of each individual light point.

Creation and recall of your favourite lighting sceneries.

Configuration of Power On Level luminosity

Configuration of Minimum and Maximum Level of luminosity

The system management from a single simplified user interface.

## THE BLUETOOTH LE CONNECTION DOES NOT REQUIRE PAIRING PROCEDURE

**Device L458MA04T1A01 requires a WIFI connection type B or G, configure your router / access point to support at least one the two connection type indicated. Example configuration: (Mode B / BG / BGN Mixed)**

**Device L458MA04T1A01 requires also a DHCP service active on the network**

**Omni App features (\* depending on the device only some functions may be available)**

In order to install the app on your Apple or Android device you need to scan the desired QRCode to be automatically redirected to the product data sheet of the Omni application.



As an alternative you can download the app by clicking on one of two links below:

Apple:

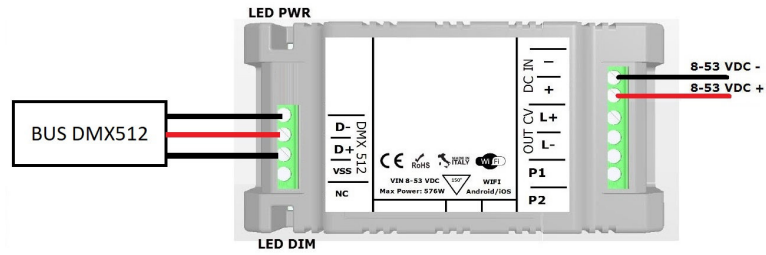
**<https://apps.apple.com/it/app/omni/id1499453223>**

Android:

**<https://play.google.com/store/apps/details?id=com.newlablight.omni&hl=en>**



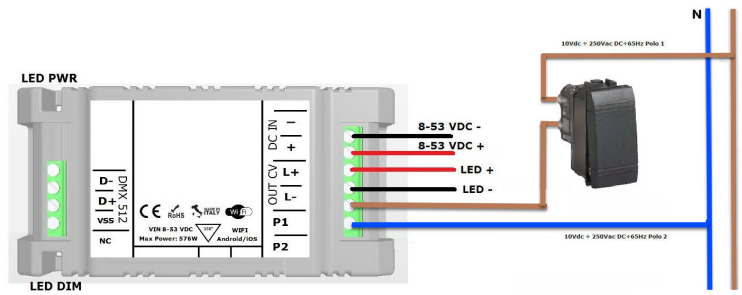
## WIFI + DMX



WIFI + DMX L458MA04T1A01 WIRING - FIGURA N. 5

The device L458MA04T1A01 is able to receive an Artnet data stream and generate the related DMX512 signal

## FACTORY RESET



In order to perform a factory reset, Press and hold the PUSH button for at least 20 sec (see wiring diagram), switch off the device and turn on it.

Last Manual Update 23/06/2020