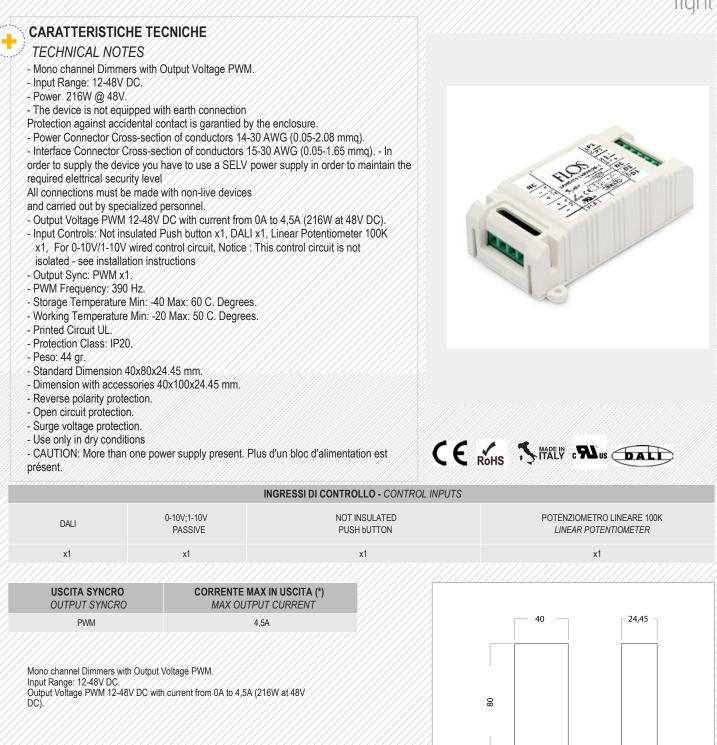
USER MANUAL 2AMDI511VPVRDS-1UL

SUBJECT INDEX:

DESCRIPTION TECHNICAL SPECIFICATION DEVICE POWER SUPPLY AND CONNECTION TO THE LED MODULE MODE 0-10V/1-10V PASSIVE PUSH MODE OPERATION MODES LINEAR POTENTIOMETER MODE 100KOHM DALI MODE

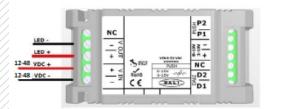
SINGLE CHANNEL MULTIPROTOCOL DIMMER C.V. IoT Light





CODICE CODE	TENSIONE IN INGRESSO INPUT VOLTAGE	CORRENTE USCITA (MAX) (MAX) OUTPUT CURRENT	n. CANALI IN USCITA n. OUTPUT CHANNELS	POTENZA MAX IN USCITA MAX OUTPUT POWER	INGRESSI DI CONTROLLO CONTROL INPUTS	SCATOLA CASE	DIM. DIM.
2AMDI511VPVRDS-1UL	12-48V DC	4,5 A	1	216W A 48V DC	NOT INSULATED PUSH bUTTON x1 DALI x1 LINEAR POTENTIOMETER 100K x1 0-10V PASSIVE x1 1-10V PASSIVE x1	SI	40x80 mm h 24,45 mm

DEVICE POWER SUPPLY AND CONNECTION TO THE LED MODULE



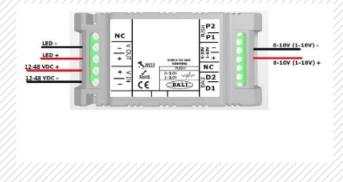
POWER SUPPLY CONNECTION DIAGRAM AND LED 2AMDI511VPVRDS-1UL - FIGURE N. 1

The 2AMDI511VPVRDS-1UL dimmer has to be powered according to the polarity showed in FIG. 1 through the V IN (+ and -) terminals.

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

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

MODE 0-10V/1-10V PASSIVE

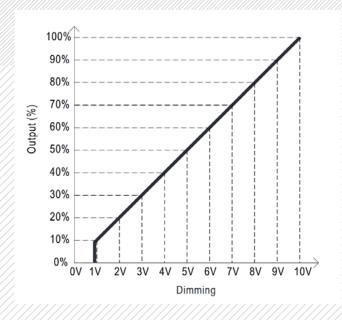


WIRING 0-10V 2AMDI511VPVRDS-1UL - FIGURE N. 2

In order to activate this mode of control/operation just connect the active control signal of 0-10V/1-10V between the 0-10V 1-10V (+ and -) inputs (being careful to observe the correct polarity) and disconnect the remaining control signals.

The maximum current absorbed by 0-10V dimmer interface is 0,1 mA.

by default, the dimming curve follows trend proportionally to the control voltage. A voltage value of less than 1V is interpreted as load off.

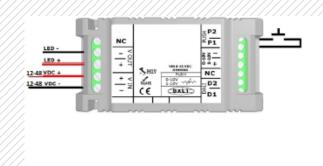


In case the 0-10V/1-10V signal is disconnected, the dimmer sets the output to the saved level (see preset level change). The preset value is zero by default.

On the first run in this mode it could be necessary to set the input to a value greater than 50% (5V or higher on 0-10V 1-10V + and -) in order to configure the dimmer to the 0-10V/1-10V mode.

In order to maintain SELV Class it's mandatory to use a Master 0-10V / 1-10V with SELV Class

PUSH MODE



WIRING BUTTON 2AMDI511VPVRDS-1UL - FIGURE N. 4

In order to activate this mode of control/operation it is necessary to remove any control signals from the 0-10V 1-10V + and - inputs and connect between the P1 and P2 inputs, 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.

The dimmer saves the output position in order to restore the set level in case of power failure (preset).

PUSH INTERFACE OPERATION

Single Click (rapid press (<1sec))

Starting from Load Off

- First click turn on load at maximum level
- Second click turn on load at 50% level
- Third click turn off load

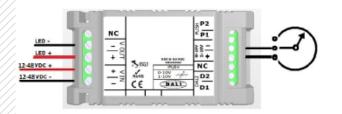
Long Press (long press (>1sec))

Starting from Load On - Long press dimmer load up or down, any button release will change the dimming direction

After dimming with long press, a rapid press will turn off load

OPERATION MODES

LINEAR POTENTIOMETER MODE 100KOHM



POTENTIOMETER WIRING 2AMDI511VPVRDS-1UL - FIGURE N. 5

In order to activate this mode of control/operation just connect a linear potentiometer of 100 Kohm between the D+ and D- inputs and disconnect the remaining inputs.

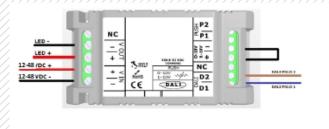
A resistance value of less than 5 Kohm is interpreted as load off. The maximum brightness value is reached by exceeding the value of 95 Kohm.

In case the potentiometer is disconnected, the dimmer sets the output to the saved level (see preset level change).

The preset value is zero by default.

On the first run in this mode it could be necessary to set the input to a value greater than 50% (55K or higher on DD + input) in order to configure the dimmer to the potentiometer mode.

DALI MODE



DALI 2AMDI511VPVRDS-1UL WIRING - FIGURE N. 6

In order to activate this mode of control/operation it is necessary to shortcircuit the 0-10V 1-10V + and - inputs and connect the DALI bus between the DALI/D1 and DALI/D2 inputs.

On the first reception of a properly formatted DALI package the dimmer is configured in DALI mode. Once configured in DALI mode and disconnected from the DALI bus the dimmer switches to the POWER ON LEVEL mode set through DALI bus.

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

Below you can find the implemented standard commands:

DIRECT ARC POWER OFF UΡ DOWN STEP UP STEP DOWN RECALL MAX LEVEL RECALL MIN LEVEL STEP DOWN AND OFF ON AND STEP UP GO TO SCENE (0-15) RESET STORE ACTUAL LEVEL IN THE DTR STORE THE DTR AS MAX LEVEL STORE THE DTR AS MIN LEVEL STORE THE DTR AS SYSTEM FAILURE LEVEL STORE THE DTR AS POWER ON LEVEL STORE THE DTR AS FADE TIME STORE THE DTR AS FADE RATE STORE THE DTR AS SCENE (0-15) REMOVE FROM SCENE (0-15)

ADD TO GROUP (0-15) REMOVE FROM GROUP (0-15) STORE DTR AS SHORT ADDRESS QUERY STATUS QUERY bALLAST QUERY LAMP POWER ON QUERY LIMIT ERROR QUERY RESET STATE QUERY MISSING SHORT ADDRESS QUERY VERSION NUMBER QUERY DEVICE TYPE QUERY PHISICAL MINIMUM LEVEL QUERY POWER FAILURE QUERY CONTENT DTR1 QUERY CONTENT DTR2 QUERY ACTUAL LEVEL QUERY MAx LEVEL QUERY MIN LEVEL QUERY POWER ON LEVEL QUERY SYSTEM FAILURE LEVEL QUERY FADE TIME/FADE RATE QUERY SCENE LEVEL (0-15) QUERY GROUPS (0-7) QUERY GROUPS (8-15) QUERY RANDOM ADDRESS H QUERY RANDOM ADDRESS M QUERY RANDOM ADDRESS L

Manual update 11/04/2018