# DLD1248 singolo canale PRO <br> Manuale Dispositivo 



## FEATURES

- DIMMER+FADER+DRIVER
- DC Input 12/24/48 Vdc
- Local Command: N.O. push button / 0-10V / 1-10V / Potentiometer
- Adjusting the brightness
- Current voltage outputs for R-L-C loads
- Typical efficiency > 95\%
- Adjusting the brightness up to completed off (Dim to Dark)
- Level minimum of brightness: $0.1 \%$ ( $1 \%$ in push)
- D-PWM Modulation
- Adjusting D-PWM frequency: 300/600/1200
- Adjusting output curve: Linear / Quadratic/ Exponential
- Soft start and soft stop
- Extended temperature range
- 100\% Functional test - 5 Years warranty
$\rightarrow$ For the whole and update Device Manual refer to producer's website: http://www.dalcnet.com
> CONSTANT VOLTAGE VARIANTS (common anode)
Application: Dimmer

| CODE | Supply voltage | Output | Channel | Command |  |
| :--- | :---: | :--- | :---: | :--- | :---: |
| DLD1248-1CV | $12-48 \mathrm{~V}$ DC | $1 \times 8 \mathrm{~A}$ max | 1 | N.O. push button / Analog signal 0-10 / 1-10 / <br> Potentiometer | PROFESSIONAL |

## PROTECTION



[^0]$>$ REFERENCE STANDARD

| EN 61347-1 | Lamp controlgear - Part 1: General and safety requirements |
| :--- | :--- |
| EN 55015 | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment |
| EN 61547 | Equipment for general lighting purpose - EMC immunity requirements |
| EN 50581 | Technical documentation for the assessment of electrical and electronic products with respect to the restriction of <br> hazardous substances |
| ANSI E 1.3 | Entertainment Technology - Lighting Control Systems - 0 to 10V Analog Control Specification |
| IEC 60929-E.2.1 | Control interface for controllable ballasts - control by d.c. voltage - functional specification |

## TECHNICAL SPECIFICATIONS



[^1]
## > INSTALLATION

Connect the switching supply (12-48V), connect the N.O. push button at $0 \mathrm{~V} / \mathrm{IN}$ or a command $0 . .10 \mathrm{~V}$ o $1 . .10 \mathrm{~V}$ or potentiometer ( $22 \mathrm{~K} \Omega$ ), connect leds.


## OPENING THE COVER

For the Dip-switch and selectors configuration it is necessary to pull Up the cover of the device. See the picture.

## MECHANICAL DIMENSIONS

(without connectors)


## $>$ CONFIGURATION DIP-SWITCH

| Function | Note: Factory position = all OFF | -Switches from 1 to 2: <br> -Switches from 3 to 4: <br> -Switches from 5 to 6: | Curve <br> Input Type <br> Output Frame Rate (Adjusting Frequency) |
| :---: | :---: | :---: | :---: |

- Switches from 1 to 2: Curve

- Switches from 3 to 4: Input Type



## $>$ FUNCTION

- N.O. PUSH BUTTON

The intensity and the status (ON/OFF) is controlled by the N.O. push button

| Button | Function | Intensity |
| :--- | :--- | :--- |
| 1 | Click | On/Off |
|  | Double Click | Maximum Intensity |
|  | Long pressure (>1s) from OFF | Turn on at 1\% (Nightime) |
|  | Long pressure (>1s) from ON | Dimmer UP/DOWN |

- 0-10V \& 1-10V \& Potentiometer $22 \mathrm{k} \Omega$

The intensity is controlled by input voltage variation

| Input | Function |  |
| :--- | :--- | :--- |
| $0-10 \mathrm{~V}$ | Dimmer | $0-1 \mathrm{~V}=0 \%$ |
| $1-10 \mathrm{~V}$ |  |  |
| Potentiometer |  |  |

## > TECHNICAL NOTES

Installation:

- Installation and maintenance must be performed only by qualified personnel in compliance with current regulations.
-The product must be installed inside an electrical panel protected against overvoltages.
-The product must be installed in a vertical or horizontal position with the cover / label upwards or vertically; Other positions are not permitted. It is not permitted to bottom-up position (with the cover / label down).
-Keep separated the circuits at 230 V (LV) and the circuits not SELV from circuits to low voltage (SELV) and from any connection with this product. It is absolutely forbidden to connect, for any reason whatsoever, directly or indirectly, the 230 V mains voltage to the bus or to otherparts of the circuit.
Power supply:
-For the power supply use only a SELV power supplies with limited current, short circuit protection and the power must be dimensioned correctly. In case of using power supply with ground terminals, all points of the protective earth ( $\mathrm{PE}=$ Protection Earth) must be connected to a valid and certified protection earth.
-The connection cables between the power source "low voltage" and the product must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Use double insulated cables.
-Dimension the power supply for the load connected to the device. If the power supply is oversized compared with the maximum absorbed current, insert a protection against over-current between the power supply and the device.
Command:
$\bullet$ The length of the connection cables between the local commands (N.O. Push button, 0-10V, 1-10V, Potentiometer or other) and the product must be less than 10 m ; the cables must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Use double insulated shielded and twisted cables.
-All the product and the control signal connect at the local command (N.O. Push button, 0-10V, 1-10V, Potentiometer or other) must be SELV (the devices connected must be SELV or supply a SELV signal)
Outputs:
-The length of the connection cables between the product and the LED module must be less than 10 m ; the cables must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Is preferable to use shielded and twisted cables.


[^0]:    ${ }^{1}$ Thermal Protection on the output channel in case of high temperature. The thermal intervention is detected by transistor ( $>150^{\circ} \mathrm{C}$ ) or current regulation (depending of the booster variant).
    ${ }^{2}$ Only control logic protection
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[^1]:    ${ }^{3}$ Valore massimo, dipendente dalle condizioni di ventilazione
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