# DLD1248 singolo canale PRO 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

→ For the whole and update *Device Manual* refer to producer's website: <u>http://www.dalcnet.com</u>

#### CONSTANT VOLTAGE VARIANTS (common anode)

Application: Dimmer

CODE	Supply voltage	Output	Channel	Command	
DLD1248-1CV	12-48V DC	1 x 8A max	1	N.O. push button / Analog signal 0-10 / 1-10 / Potentiometer	PROFESSIONAL

#### > **PROTECTION**

ОТР	Over temperature protection <sup>1</sup>	✓
OVP	Over voltage protection <sup>2</sup>	$\checkmark$
UVP	Under voltage protection <sup>2</sup>	$\checkmark$
RVP	Reverse polarity protection <sup>2</sup>	$\checkmark$
IFP	Input fuse protection <sup>2</sup>	$\checkmark$
SCP	Short circuit protection	$\checkmark$
ОСР	Open circuit protection	×
CLP	Current limit protection	$\checkmark$

<sup>&</sup>lt;sup>1</sup> Thermal Protection on the output channel in case of high temperature. The thermal intervention is detected by transistor (>150°C) or current regulation (depending of the booster variant).

<sup>&</sup>lt;sup>2</sup> Only control logic protection

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# > 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		
	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

		Vari	ants	
		Constant Voltage		
Supply voltage		min: 10,8 Vdc max: 52,8 Vdc		
Output voltage		=Vin		
Input current		max 8A pico		
Output current		max 8A picco		
		max 7,5A @55°C		
		max 6,5A @60°C		
Nominal power <sup>3</sup>	@12V	78 W (@6,5A) – 90 W (@7,5A)		
	@24V		– 180 W (@7,5A)	
	@48V	312 W (@6,5A) – 360 W (@7,5A)		
Power loss in standby mode			)mW	
Type of Load		R-	R-L-C	
Thermal shutdown		15	0°C	
Command supply current		0,5mA (per 1-10V)		
Command required current (max)		0,1mA (per 0-10V)		
D-PWM frequency adjustable		300 600 1200 Hz		
D-PWM resolution		16 bit		
D-PWM range		0,1 - 100 %		
Storage temperature		min: -40 max: +60 °C		
Ambient temperature <sup>1</sup>		min: -10 max: +60 °C		
Wiring		Buttons: 1.5mm <sup>2</sup> solid – 1mm <sup>2</sup> stranded – 30/14 AWG		
		Power & Leds: 2.5mm <sup>2</sup> solid – 1.5mm <sup>2</sup> stranded – 30/12 AWG		
Wire preparation length		Buttons: 6 mm		
wire preparation length		Power & Leds: 7,5mm		
Protection grade		IP10		
Casing material		Plastic		
Packaging unit (pieces/unit)		Single Carton Box 1 pz	Carton Box 7 pz	
Mechanical dimensions		92 x 36 x 62 mm – DIN RAIL 2mod.		
Packaging dimensions		124 x 71 x 48 mm	263 x 178 x 82 mm	
Weight		88g	800g	

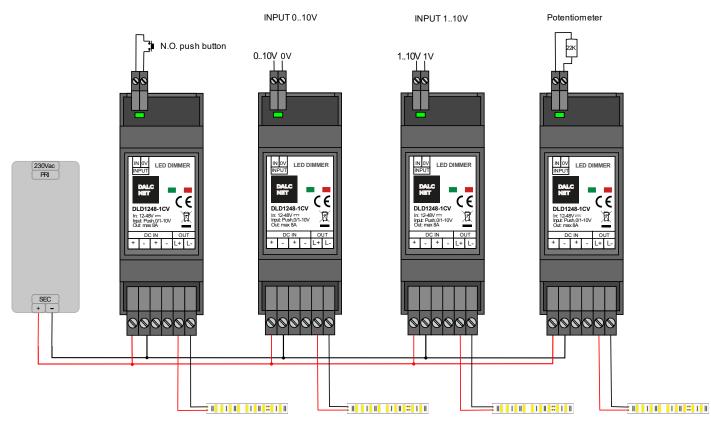
<sup>3</sup> Valore massimo, dipendente dalle condizioni di ventilazione

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#### INSTALLATION $\geq$

Connect the switching supply (12-48V), connect the N.O. push button at 0V/IN or a command 0..10V or 1..10V or potentiometer (22KΩ), connect leds.

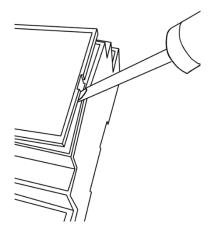


# **OPENING THE COVER**

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

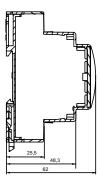
# **MECHANICAL DIMENSIONS**

(without connectors)

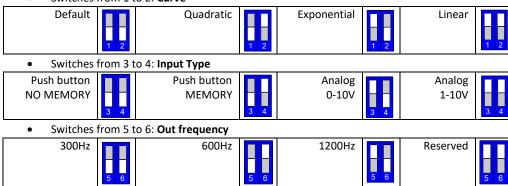


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#### > FUNCTION

#### • 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 22kΩ

The intensity is controlled by input voltage variation

Input	Function	Inten	sity
0-10V	Dimmer	0-1V=0%	10V=100%
1-10V			
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 230V (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 230V 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 (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:

•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 10m; 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 10m; 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.

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