



8A 0-10V Full-Colour Dimmable LED Driver

LINEARdrive

LINEARdrive gives you all the control you need for your low-voltage LED application. This constant voltage LED driver is 0-10V compatible and enables you to create the perfect shade of white or show sequence without an external controller. Symbiosis ensures the LED driver works seamlessly together with LED modules, controls and intelligent luminaire elements.

Product offering



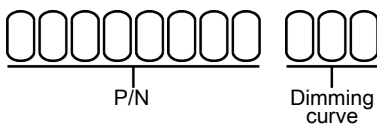
LINEARdrive 211/D

Part number (P/N)	LIN211D1
Product description	LINEARdrive DC, 8A, 12-24VDC, 0-10V, 1 control channel, constant voltage, 2x LED outputs, plastic long

Warranty

Warranty period	General Terms and Conditions
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Order number configurator



P/N	LED driver part number.
Dimming curve	"LOG" for logarithmic (default) "LIN" for linear

Input characteristics

Nominal input voltage DC	12 - 28V
Maximum input current	8A, irrespective of PSU voltage

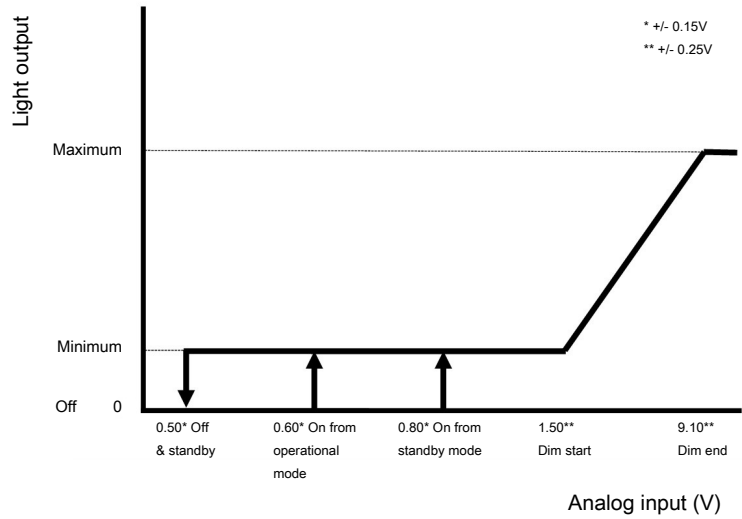
Output characteristics

LED output load	8A maximum, irrespective of whether using one or both LED outputs
Maximum LED output power	200W
Number of LED outputs	2
LED output voltage	12 - 28V
Auxiliary output voltage	equal to input voltage
Auxiliary output current	180mA @ 12V, 90mA @ 24V
Maximum auxiliary output power	2W
Circuit protection	To prevent excessive output current from damaging the LED driver, it is highly recommended to use circuit protection appropriate for your application's nominal and inrush current requirements in combination with an OVP, OVC short circuit protected AC/DC adapter.

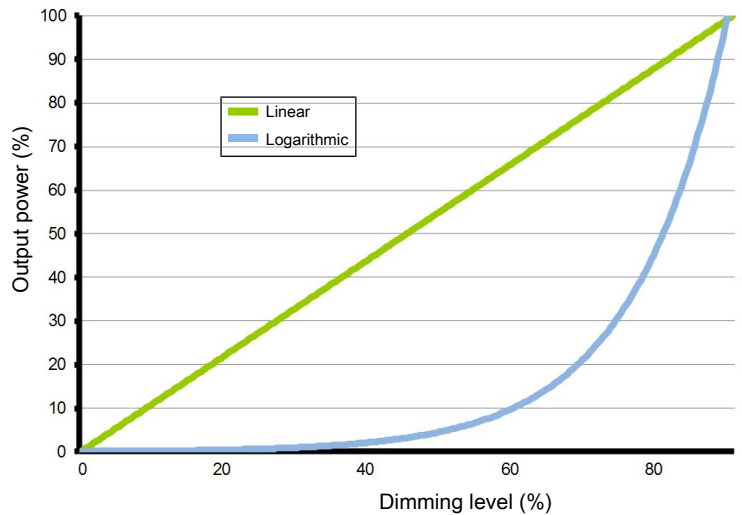
Control characteristics

Control channels	1
Control protocol	0-10V
Dimming range	100% - 0.1%
Dimming curve options	Logarithmic (default) Linear
Dimming method	HydraDrive
0-10V current draw	0.6mA typically, 2mA max

0-10V dimming chart



Dimming curves

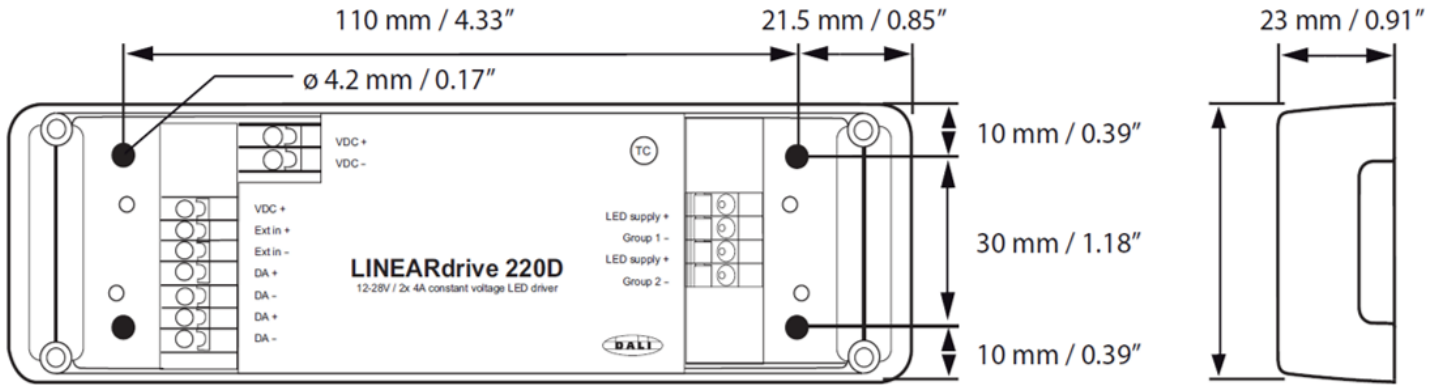


Environmental conditions

Operating ambient temperature (Ta) range -20 °C to +50 °C

Maximum operating case temperature (Tc max) 65 °C

LED driver mechanical details



Length (L) typical: 153 mm / 6.02 in

Width (W) typical: 50 mm / 1.97 in

Height (H) typical: 23 mm / 0.91 in

Weight 120 g

Packaging

Products per box 12 pcs

Connector layout



Wiring specifications

Wire core cross section	0.2 - 1.5 mm ² AWG 24 – 16
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Wire strip length	9.0 mm / 0.35 inch
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Standards and compliance

UL, recognized component	UL 1310 UL 8750 (Class 2 output)
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ENEC safety	EN 61347-1 EN 61347-2-13 (Emergency lighting)
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Conducted emissions	EN 55015
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Radiated emissions	EN 55015
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0-10V	IEC/EN 60929 annex E NOTE: From 0.6V to 10V eldoLED LED drivers comply with IEC/EN 60929 annex E. Below 0.6V eldoLED LED drivers comply with ABL 0-10V Design Spec v1.2 enabling standby mode. For detailed dimming characteristics see 0-10V response chart in Control Characteristics.
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Restriction of hazardous substances	RoHS3 (Directives 2011/65/EU-2015/863/EU)
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Certifications



Safety



Risk of electrical shock. May result in serious injury or death. Disconnect power before servicing or installing.



The LED driver may only be connected and installed by a qualified electrician. All applicable regulations, legislation, and building codes must be observed. Incorrect installation of the LED driver can cause irreparable damage to the LED driver and the connected LEDs.

Pay attention when connecting the LEDs: polarity reversal results in no light output and often damages the LEDs.



LED drivers are designed and intended to operate LED loads only. Powering non-LED loads may push the LED driver outside its specified design limits and is, therefore, not covered by any warranty.



eldoLED products are designed to meet the performance specifications as outlined at certain operating conditions in the data sheet. It is the responsibility of the fixture manufacturer to test and validate the design and operation of the system under expected and potential use cases, including faults.



Please observe voltage drop over long cable lengths. Longer cable lengths increase EMI susceptibility.



Product renderings and dimensional drawings are generic for the housing type. Product label, connector type and quantity may vary.

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