



8A 0-10V Single Channel 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 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, 200W, 0-10V, 1 control channel, constant voltage, 2x LED outputs, plastic long

Features & benefits

Camera compatibility	HydraDrive technology is proven to work in TV studios and security camera environments
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Warranty

Warranty period	General Terms and Conditions
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Order number configurator

LIN211D1
Part Number

Dimming Curve

Dimming curve	"LOG" for logarithmic (default) "LIN" for linear
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Input characteristics

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

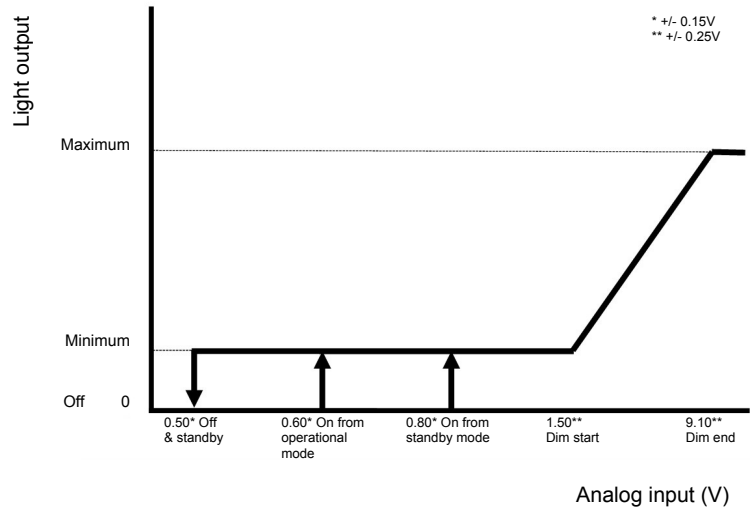
Output characteristics

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
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.

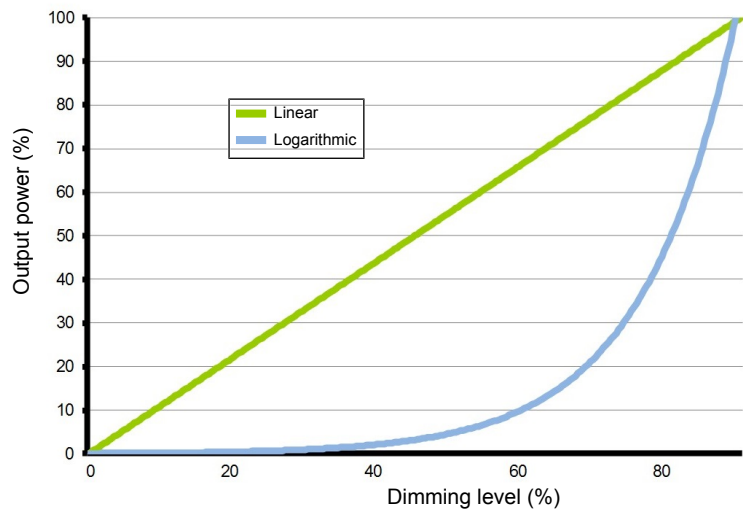
Control characteristics

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

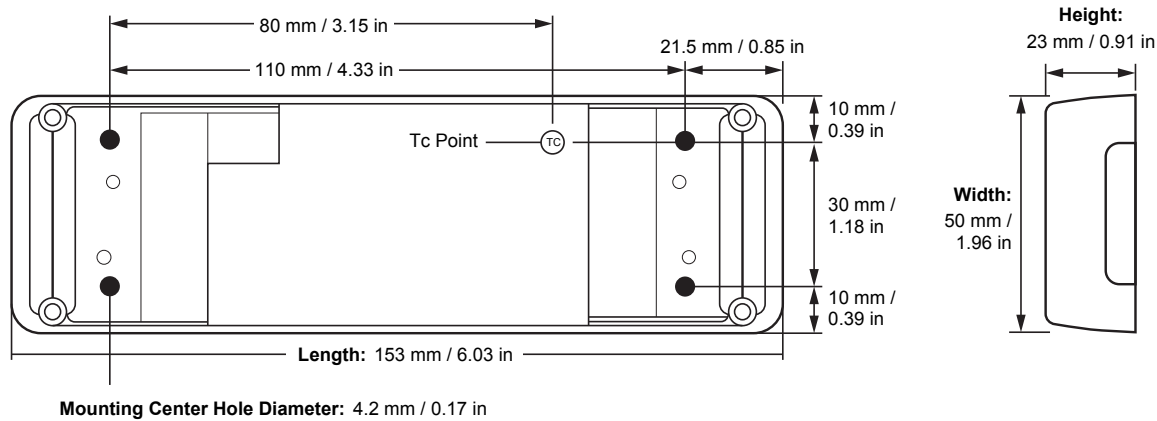


Environmental conditions

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

Maximum operating case temperature (Tc max) 65 °C

LED driver mechanical details



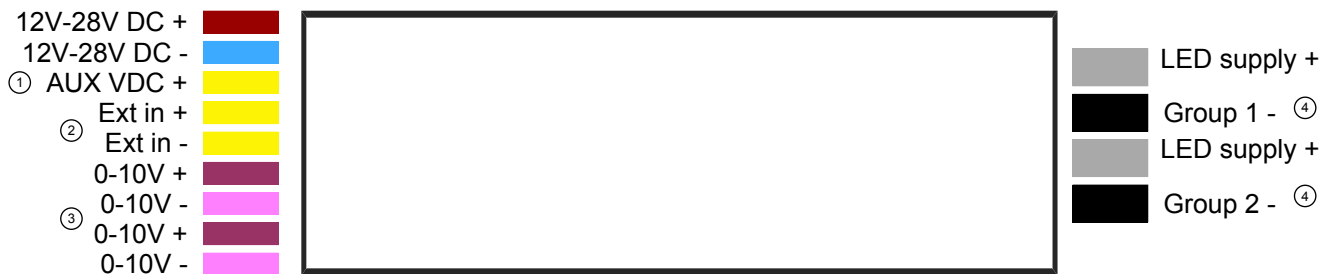
Weight 120 g

3D mechanical files for this product are available on the eldoLED website.

Packaging

Products per box 12 pcs

Connector layout



- ① AUX VDC passes through the 12-28VDC supply and is not configurable. May be used with the EXT inputs to power a peripheral device
- ② EXT input may be used to interface with an external motion sensor. Contact Tech Support for other use cases.

- ③ 0-10V Terminals are connected internally to allow the dimming signal to be daisy chained
- ④ Dimming level is the same for each output

Wiring specifications

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

Standards and compliance

UL, recognized component	UL 1310 UL 8750
ENEC safety	EN 61347-1 EN 61347-2-13 (Emergency lighting)
Conducted emissions	EN 55015
Radiated emissions	EN 55015
ECodesign 2019/2020: Controlgear + luminaire	Flicker for LED: Pst LM ≤ 1.0 at full-load Stroboscopic effect for LED: SVM ≤ 0.4 at full load
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.
Restriction of hazardous substances	RoHS3 (Directives 2011/65/EU-2015/863/EU)

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.

Europe, Rest of World

eldoLED B.V.
Science Park Eindhoven 5125
5692 ED Son
The Netherlands

E: info@eldoled.com
W: www.eldoled.com

North America

eldoLED America
One Lithonia Way
Conyers, GA 30012
USA

E: info@eldoled.com
W: www.eldoled.com
