eldoLED
your product | *our drive*

Datasheet

LINEARdrive 720/D

24A DMX/RDM/DALI Full-Colour Dimmable LED Driver

LINEARdrive

LINEARdrive gives you infinite colour control for low-voltage LED applications ranging from single colour for accent and cove lighting all the way up to RGBW for full colour entertainment product solutions. This constant voltage LED driver is DMX/RDM/DALI compatible and allows you to create your colour or dynamic show without an external controller. Symbiosis ensures the LED driver works seamlessly together with LED modules, controls and intelligent luminaire elements.

Product offering

LINEARdrive 720/D

Part number (P/N)	LIN720D3
Product description	LINEARdrive, 720W, DMX/RDM/DALI , 4 control channels, constant voltage, 4 outputs, plastic long

Programming tools

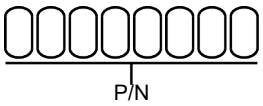
Programming interface	TOOLbox pro (TLU20504)
Programming cable set	TOOLbox pro to LED driver, programming cable, 5pcs (TLC03051)
Programming software	FluxTool
Programming via product display	The parameters can be set via the display on the driver. For instructions, please see the Menu Structure Quick Start Guide.

Warranty

Warranty period	General Terms and Conditions

AcuityBrands.

Order number configurator



P/N	LED driver part number

Input characteristics

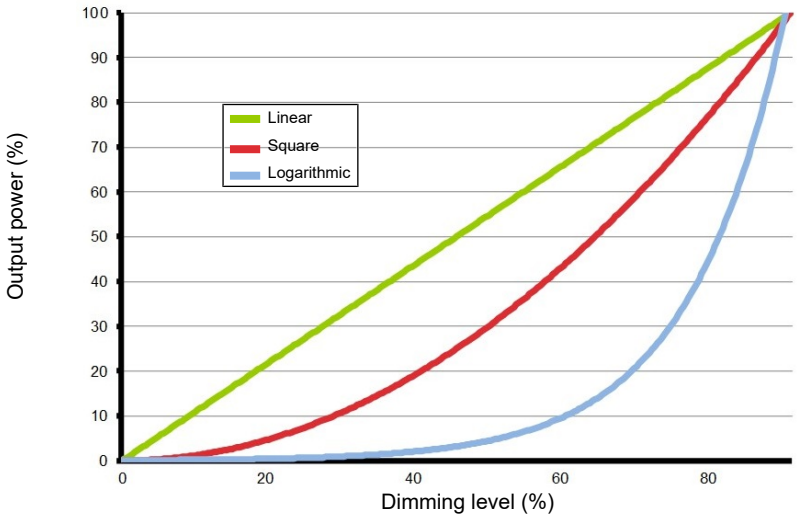
Nominal input voltage DC	12 - 48V
Maximum input current	24A, irrespective of PSU voltage

Output characteristics

LED output load	RGBW @ 12V: 6A RGB @ 12V: 6A RGBW @ 24V: 6A RGB @ 24V: 6A RGBW @ 48V: 3.75A RGB @ 48V: 5A
Maximum LED output power	720W
Number of LED outputs	4 (UL Class 2)
LED output voltage	5 - 48V
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

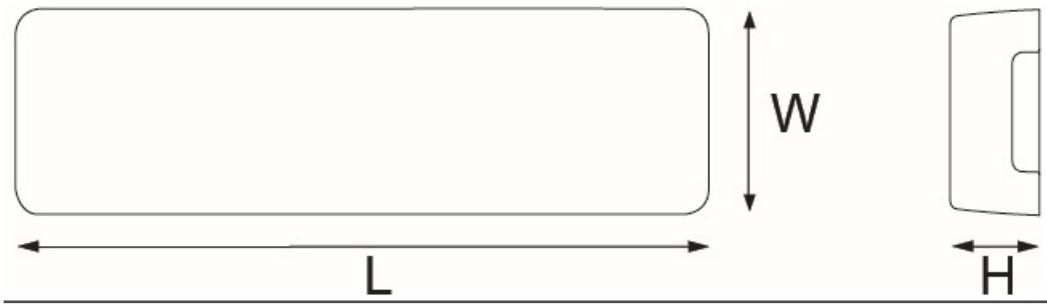
Control channels	4
Control protocol	DMX/RDM

Dimming range	100% - 0.1%
Dimming curve options	Logarithmic (default) Linear Square
Dimming method	HydraDrive
Driver configuration	Via 3-button user interface on driver Remark: ignore dimming curve setting in DALI mode
Dimming curves	

Environmental conditions

Operating ambient temperature (Ta) range	-20 ºC to +50 ºC
Maximum operating case temperature (Tc max)	65 ºC
UL Recognized	Maximum allowed Tref - °C , measured at - mA

LED driver mechanical details

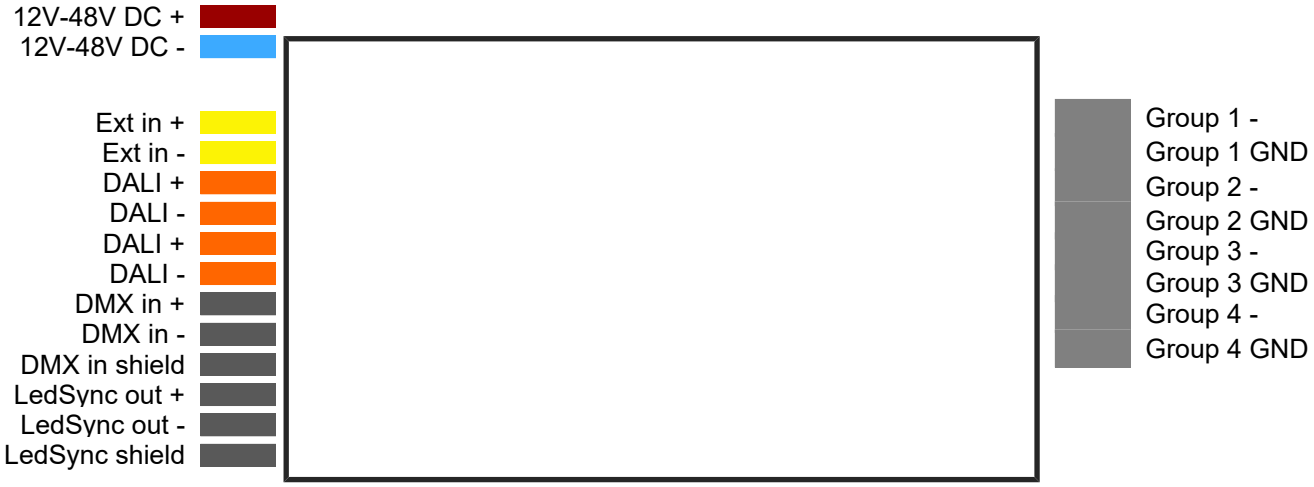


Length (L)	typical: 153 mm / 6.02 in
Width (W)	typical: 50 mm / 1.97 in
Height (H)	typical: 23 mm / 0.91 in
Weight	144 g

Packaging

Products per box	12 pcs

Connector layout



Wiring specifications

Wire core cross section	0.5 - 1.5 mm² AWG 20 – 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
DALI	EN 62386-101/102/207
DMX	E1.11 – 2008, USITT DMX512-A ANSI E1.20
Restriction of hazardous substances	RoHS3 (Directives 2011/65/EU-2015/863/EU)

Certifications

E333135

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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