



4x2A DMX/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/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 100/M

Part number (P/N)	LIN100M1
Product description	LINEARdrive AC, 100W, DMX/DALI, UI, 4 control channels, constant voltage, 4x 12/24V outputs, long metal

Programming tools

Programming interface	TOOLbox pro (TLU20504)		
Programming cable set TOOLbox pro to LED driver, programming cable, 5pcs (TLC03051			
Programming software	FluxTool		

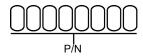
Warranty

Warranty period	General Terms and Conditions
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Order number configurator



P/N	LED driver part number.
Input characteristics	
Nominal input voltage range AC	120 - 250V (ENEC), 120 - 277V (UL)
Nominal input voltage DC	120 - 275V
Maximum input current	1.05A @ 120V / 60Hz
Input frequency range	50 - 60Hz
Power factor at full load	> 0.94
THD at full load	< 10%
Maximum inrush current	35A 240µs @ 120V / 60Hz
Surge protection	3kV (L to N)
	4kV (L/N to GND)
Maximum standby power	< 0.5W





LED output load	RGBW @ 12V: 2.08A
·	RGB @ 12V: 2.76A
	RGBW @ 24V: 1A
	RGB @ 24V: 1.33A
	5A maximum common anode
	For UL Class 2:
	RGBW @ 12V: 1.25A per output
	RGB @ 12V: 1.66A per output
	RGBW @ 24V: 1A per output
	RGB @ 24V: 1.33A per output
Maximum LED output power	100W
Number of LED outputs	4 (UL Class 2)
LED output current	2.8A absolute maximum rating per output
LED output voltage	12 - 24V DC
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.



80

Dimming level (%)



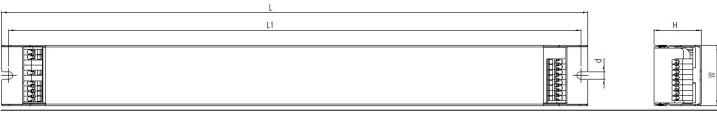
Control channels	4
Control protocol	DMX/DALI
Dimming range	100% - 0.1%
Dimming curve options	Logarithmic (default) Linear Square
Dimming method	HydraDrive
Driver configuration	via 3-button user interface on driver Remark: ignore dimming curve setting in DALI mode
Dimming curves	100 90 80 70 Square Logarithmic

Environmental conditions

Operating ambient temperature (Ta) range	-40 °C to +50 °C
Maximum operating case temperature (Tc max)	85 °C



LED driver mechanical details

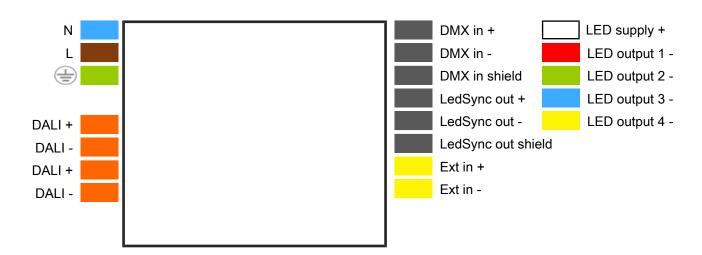


Length (L)	typical: 370 mm / 14.57 in
Width (W)	typical: 41 mm / 1.61 in
Height (H)	typical: 30 mm / 1.18 in
Weight	880 g

Packaging

Products per box 20 pcs

Connector layout



Wiring specifications

Wire core cross section	0.5 - 1.5 mm ² AWG 20 – 16
Wire strip length	9.0 mm / 0.35 inch



LINEARdrive 100/M

Automatic circuit breakers (MCB)							
Maximum loading	MCB type	B10	B13	B16	C10	C13	C16
	Number of LED drivers	5	6	8	8	10	13
Standards and compliance							
UL, recognized component	UL 1310 UL 8750 (Class 2 output)						
ENEC safety	EN 61347-1 EN 61347-2-13 (Emergency lighting)						
ENEC performance	EN 62384						
Conducted emissions	EN 55015						
Radiated emissions	EN 55015						
Radio disturbance characteristics	EN 55022						
Harmonic current emissions	EN 61000-3-2						
Electromagnetic immunity	EN 61547						
DALI	EN 62386-101/102/207						
DMX	E1.11 – 2008, USITT DMX512-A ANSI E1.20						
FCC	47 CFR Part 15 class B						
RCM	AS/NZS 61347.1, AS/NZS 61347.2.13						
Restriction of hazardous substances	RoHS3 (Directives 2011/65/EU-2015/8	63/EU))				

Certifications





LINEARdrive 100/M

Safety	
4	FELV control terminals marked "Risk of electric shock" are not safe to touch. Dimming connected to FELV control terminal shall be insulated for Low Voltage supply of the control gear.
<u>A</u>	Risk of electrical shock. May result in serious injury or death. Disconnect power before servicing or installing.
<u></u>	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.
<u></u>	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.
i	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.
i	Please observe voltage drop over long cable lengths. Longer cable lengths increase EMI susceptibility.
(i)	Product renderings and dimensional drawings are generic for the housing type. Product label, connector type and quantity may vary.

Europe, Rest of World

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