

eldoLED

LINEARdrive DC Family LED Drivers

European Selection



The eldoLED LINEARdrive DC range is designed for controlling constant voltage LED applications, such as LED tape used in cove lighting and architectural luminaires. The various products in the range can be used for controlling white light, Tunable White and RGBW color.

Supported dimming protocols include DALI-2, DMX, 0-10V and Casambi via LEDcode.

The LIN180D and LIN720D also have an integrated controller for defining and controlling simple shows.

The housing is intended for independent use and includes a strain relief. Due to its integrated heatspreader, the driver can control up to 8A per LED string that is provided by an external power supply.

Family members include 200W models with 2 LED outputs, as well as 180W and 720W models with 4 LED outputs.

The family has been designed to meet the standards in Europe (CE, UKCA and ENEC), North America (UL Recognized) and India (BIS).

Applications

 Constant voltage LED applications, such as LED tape used in cove lighting or architectural linear luminaires

Key Features and Benefits

- Stand-alone control of constant voltage LED applications between 12V and 28VDC or 12V and 48VDC, with strain-relief and integrated heatspreader.
- Wide range of control options:
 - The family includes various control protocols: DALI-2, DMX, 0-10V. LIN200D models with DALI-2 can be connected to a Casambi wireless control module by eldoLED.¹
- Integrated control for defining and controlling simple shows for LIN180D and LIN720D.
- Natural and flicker-safe dimming down to 0.1%
 - Dimming with smooth brightness changes and excellent flicker performance. Configurable minimum dim level² and adaptable dim curves².
- Programmable
 - Fine-tune your control using FluxTool with LightShape³
 - Programmable features vary per model and include:
 - Dimming level
 - Dimming curve
 - Tunable White, using LightShape³
- LIN200D models can control up to 200W (8A) of power in 2 LED outputs. LIN180D and LIN720D models can control up to 180W and 720W respectively in 4 LED outputs.
- Suitable for use up to 50°C ambient temperature.
- 1. See the eldoLED BT Casambi datasheet for further details.
- 2. Applies to DALI products
- eldoLED LightShape technology enables precision of the color and light output in white light applications, creating color consistency among different luminaires in the same space. See www.eldoled.com/technology

Specifications and Certifications





0-10















Products

Product	Max Power	Number of LED outputs	Max. Output	Max output per LED	Control Protocol	Order Number
LINEARdrive DC	200W	2	8A	8A	DALI-2 DT6 (1 DALI address)	LIN200D-D2Z1D*
LINEARdrive DC	200W	2	8A	8A	DALI-2 DT6 (2 DALI addresses)	LIN200D-D2Z2D*
LINEARdrive DC	200W	2	8A	8A	DALI-2 DT8 (Tc) (Tunable White**)	LIN200D-D2Z2C*
LINEARdrive DC	200W	2	8A	8A	0-10V	LIN211D
LINEARdrive DC	200W	2	8A	8A	DMX	LIN212D
LINEARdrive DC	200W	2	8A	8A	DMX	LIN222D
LINEARdrive DC	180W	4	6A	2A	DMX	LIN180D
LINEARdrive DC	720W	4	24A	6A	DMX & DALI	LIN720D

^{*}For explanation see the Ordering Guide

^{**} DT8 uses 1 DALI address





Ordering Guide (LIN200D series only)

LIN	200	D	D	2	Z	1	D
Family	Output Wattage	Housing	Input Voltage	Output Channels	AUX	Control Channel	Control
LINEARdrive	200	D	D = DC (12-28VDC)	2	No AUX	1 2	D = DALI-2 DT6 C = DALI-2 DT8(Tc)

Electrical Specifications

	Max Output Power	Nominal Input Voltage	Max Input Current	Typ. Efficiency (full load)	Typ. Max Tc
LIN180D	180W	12-28VDC	6A	>98%	65°C
LIN200D	224W	12-28VDC	8A	>99%	65°C
LIN211/212/222D	224W	12-28VDC	8A	>99%	65°C
LIN720D	720W	12-48VDC	24A	>98%	65°C

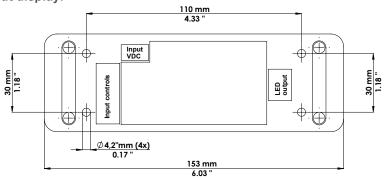
Other electrical specifications are set by the external power supply used.

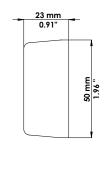
Mechanical Details

Length	153mm (length) x 50mm (width)	153mm (length) x 50mm (width) x 23mm (height)				
Packaging	Individual box; 12 pcs / 48 pcs p	Individual box; 12 pcs / 48 pcs per box				
Box Dimensions	330 x 240 x 220mm	330 x 240 x 220mm				
	LIN211/212/180D	LIN200D-D2ZxX	LIN720D			
Weight of Individual Product	140g	131g	170g			
Box Weight	7.7kg (48 pcs)	1.6 kg (12 pcs)	9.2kg (48 pcs)			

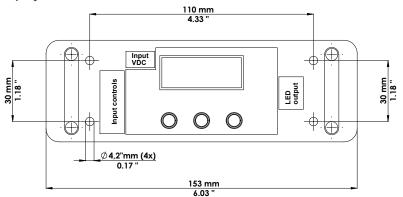
The dimensions of the products with and without display are the same, as well as their cover.

Products without display:





Products with display:







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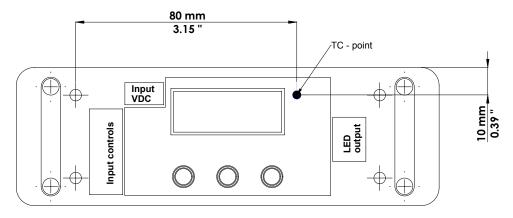


Minimum and Maximum Ratings

Parameter	Values	
Input Voltage Range	12-28VDC, 12-48VDC (LIN720D only)	
Ambient Operating Temperature	-20°C - 50°C	
Lifetime	50.000 hours	
Acoustic Noise	<24dBA	

Tc Point Location

The TC point location of products with and without display is the same:



Driver configuration

LIN180D (DMX)	FluxTool with TOOLbox pro And via user interface with 3 push buttons
LIN200D-D2ZxX (DALI-2)	FluxTool with TOOLbox pro
LIN211D (0-10V)	no configuration possible
LIN212/222D (DMX)	FluxTool with TOOLbox pro
LIN720D	FluxTool with TOOLbox pro And via user interface with 3 push buttons

Programming Tools (LIN200D DALI/DMX versions only)

	Programming software	Programming interface: TOOLbox pro	TOOLbox adapter	Driver input terminals	Driver mode
LIN180D	FluxTool v.4.5.27 or higher	TLU20504	n/a	DMX	set to DMX mode in display
LIN212D/LIN222D	FluxTool v.4.5.27 or higher	TLU20504	n/a	DMX	
LIN200D	FluxTool v.4.6.11 or higher	TLU20504	TLA20501	LEDcode	
LIN720D	FluxTool v.4.5.27 or higher	TLU20504	n/a	DMX	set to DMX mode in display

Programming Interface





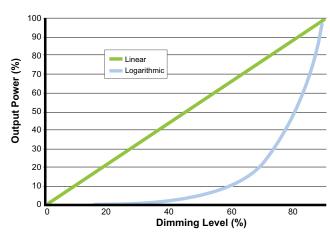




Programming Tools (FluxTool)

Dimming Curve	LOG – Logarithmic LIN - Linear
Minimum Dim Level	Settable in 0.1% increments down to 0.1%

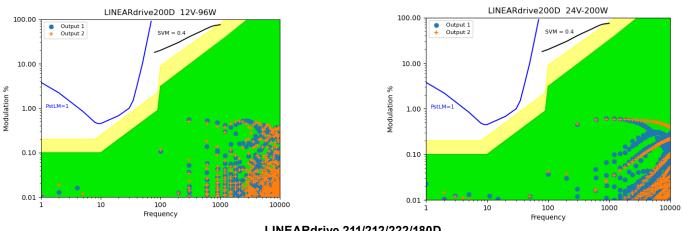
Dimming Curve



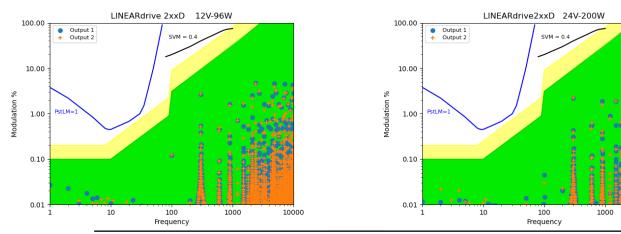
Flicker Performance

Typical performance of 12V and 24V DC input

LIN200D-D2ZxX



LINEARdrive 211/212/222/180D





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LINEARdrive DC Family LED Drivers

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Wiring and Connector Lay Out

	Input (VDC)	Input (Control)		Output (LED Output)
	All types	LIN180D, LIN200D, LIN211D	LIN212D, LIN222D, LIN720D	All types
Connector Type	Push-in terminal WAGO 805 or equivalent	Push-in terminal WAGO 250 or equivalent	Push-in terminal Phoenix PTSA 0.5 or equivalent	Push-in terminal WAGO 805 or equivalent
Wire Dimensions	0.5-1.5 mm2	0.5-1.5 mm2	0.2-0.5 mm2	0.5-1.5 mm2
Wire Strip Length	9.0 mm	9.0 mm	9.0 mm	9.0 mm
Maximum Attached Cable Length	0.3m*			

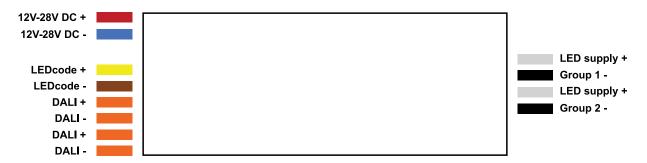
^{*}Applicable to LIN200D-D2ZxX and LIN211/212/222D, driven by EMC for qualified power supplies

The connectors per product vary, see the reference table below:

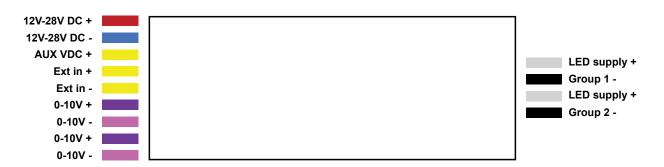
Input Connectors		Output	Connectors	
Product Total number Terminal type		Total number	Terminal type	
LIN180D	8	Push-in terminal WAGO 250 or equivalent	5	
LIN200D-D2ZxX	6	Push-in terminal WAGO 250 or equivalent	4	_
LIN211D	7	Push-in terminal WAGO 250 or equivalent	4	Push-in terminal WAGO 805 or equivalent
LIN212/222D	9	Duck in terminal phasein DTCA 0.5 or equivalent	4	_
LIN720D	12	Push-in terminal phoenix PTSA 0.5 or equivalent	8	_

Connector Layout

LIN200D-D2ZxX



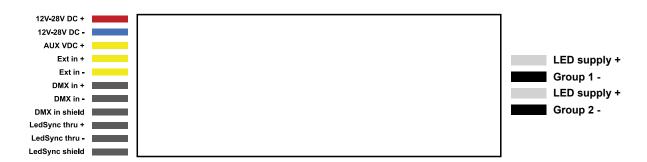
LIN211D



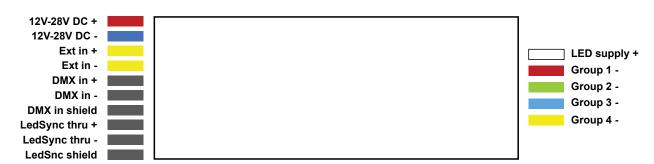




LIN212/222D



LIN180D



LIN720D



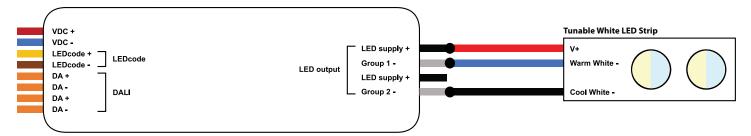






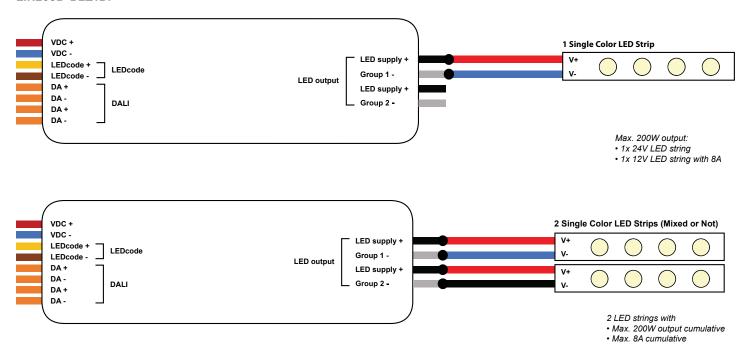
Wiring Diagram (Top View)

LIN200D-D2Z2D and LIN200D-D2Z2C:



*The 2nd LED supply + is not connected.

LIN200D-D2Z1D:



Wiring diagrams of LIN180/211/212/222/720D can be found in separate documents on the website.

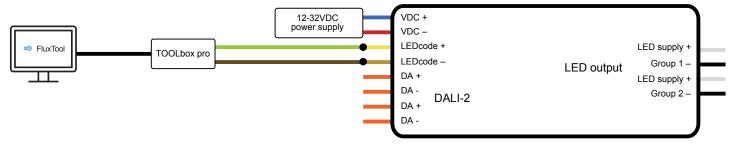




LIN200D Models with DALI-2:

Connecting to FluxTool with TOOLbox pro: via the LEDcode terminals

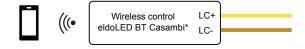
In case the driver is connected to a power supply:



In case the driver is NOT connected to a power supply:



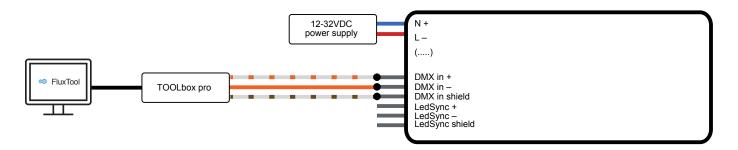
Connecting a Casambi wireless control module by eldoLED: via the LEDcode terminals



LI180D, LIN212D, LIN222D and LIN720D Models:

Connecting to FluxTool with TOOLbox pro: via the DMX terminals

Please note: the driver can only be programmed with FluxTool when connected to a power supply







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System compatibility	The mains power supplies list	ed in the table are already tested b	by eldoLED and are compatible with this eldoLED driver.
	LIN180D	LIN200/211/212D	LIN720D
12V	Meanwell HLG-240H-12A	Meanwell HLG-240H-12A	
24V	Meanwell HLG-240H-24A	Meanwell HLG-240H-24A	Meanwell HLG-600H-24A
System performance	switching power supply in the power supply may have differ	system may influence its performa ent outcomes. Full load performan	nuirements are met on system level. The location, wiring and grounding of the mains ance characteristics. In different environments or applications, the same mains switching ce is guaranteed with maximum cable-length of 0.3 meter for mains switching power er and maximum cable-length of 1.0 meter (2 x 1.5mm²) from the LINEARdrive LED driv
LED Driver Protection ((LIN200D series only)		
Thermal	The LED output current autor increases once the internal dr		nternal driver temperature exceeds a factory preset temperature. The LED output currer preset temperature threshold. If the internal driver temperature continues to increase, ally shut down.
Circuit Protection		requirements and inrush current re	er, it is highly recommended to use appropriate circuit protection, in line with your quirements, in combination with overvoltage protection (an OVP, OVC short circuit
LED Output Open Circuit	The LED output turns off whe detected.	never the LED driver detects an op	pen circuit. The LED driver attempts a restart every 400ms after an open circuit is
Reverse Polarity	The LED driver will not yield a damage the LED load.	ny current if the polarity of the load	d on the LED output is reversed. This situation will not damage the LED driver but may
Standards and Complia	ances		
UL, recognized component	UL1310 UL8750		
ENEC Safety	EN 61347-1 EN 61347-2-13		
ENEC Performance	EN 62384		
Conducted Emissions	EN 55015		
Radiated Emissions	EN 55015		
Electrostatic Discharge	EN 61000-4-2		
ECOdesign 2019/2020	Flicker for LED: Pst LM ≤ 1.0	at full load. Stroboscopic effect for	LED: SVM ≤ 0.4 at full load.
DALI-2*	IEC 62386-101 Edition 2.0, IE	C 62386-102 Edition 2.0, IEC 623	86-207 Edition 1
DMX	ANSI E1.11 – 2008 (R2013),	USITT DMX512-A ANSI E1.20 - 20	010
0-10V			t/EN 30929 annex E. Below 0.6V eldoLED LED drivers comply with ABL 0-10V Design teristics see 0-10V response chart in Control Characteristics.

^{*}DALI products only

SVHC-list Substances

Restriction of Hazardous Substance



RoHS3 (Directives 2011/65/EU-2015/863/EU)

REACH Art 33



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 or system engineer to test and validate the design and operation of the system under expected and potential use cases, including faults.



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

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Warranty

eldoLED Products are covered by a 5-year limited warranty. This is the only warranty provided and no other statements in this datasheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms can be found at: www.eldoled.com/legal/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. The product images shown are for illustration purposes only and may not be an exact representation of the product. Specifications subject to change without notice.

