

eclipse  
SLIMLINE

eclipse<sup>2</sup>  
[SQUARED]

eclipse  
curves

eclipse  
REVERSE

# eclipse

Technical Specifications

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**SD**  
SOURCE BY DESIGN

# delivery

The Eclipsis light fittings are to be packaged horizontally in a suitably sized vehicle and 'wedged' in using polystyrene or similar. They don't need to be packaged under a lot of pressure, just enough to stop them sliding around. If ratchet straps are used please make sure adequate protection is used to stop ratchet touching the acrylic.

# handling and storing

The Eclipsis light fittings are to be kept horizontal at all times.

If they need to be turned vertical for access reasons, the ring must be carried by a minimum of 2 people. **DO NOT STAND THE RINGS VERTICALLY.**

While the foam packaging is on the Eclipsis fittings, each size of Eclipsis light fitting can be stacked in groups of six safely. Once the packaging is removed they should not be stacked.

Any uneven pressure applied to the trim could cause the acrylic to crack which will make the ring potentially unusable.

# care and cleaning

When the Eclipsis fittings have been unwrapped use of clean soft gloves is recommended for handling the Eclipsis fittings. If the Eclipsis is fitted with a stainless steel inner or outer edge and it acquires finger prints or smudges, use a clean dry cloth to 'buff' out the mark, similar to cleaning a pair of glasses. Glue marks can be cleaned using Methylated Spirits and a clean cloth. This will leave a 'cloudy' area which can be cleaned using the 'buffing' method and a dry cloth.

If the fitting has a custom surface, please refer to the manufacturers specifications for cleaning and maintenance.

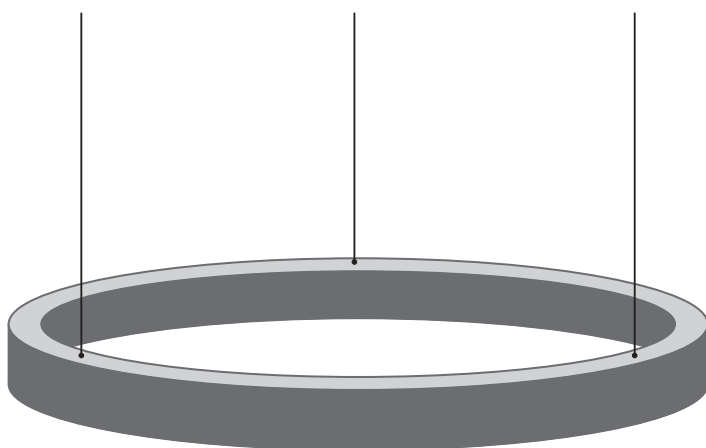
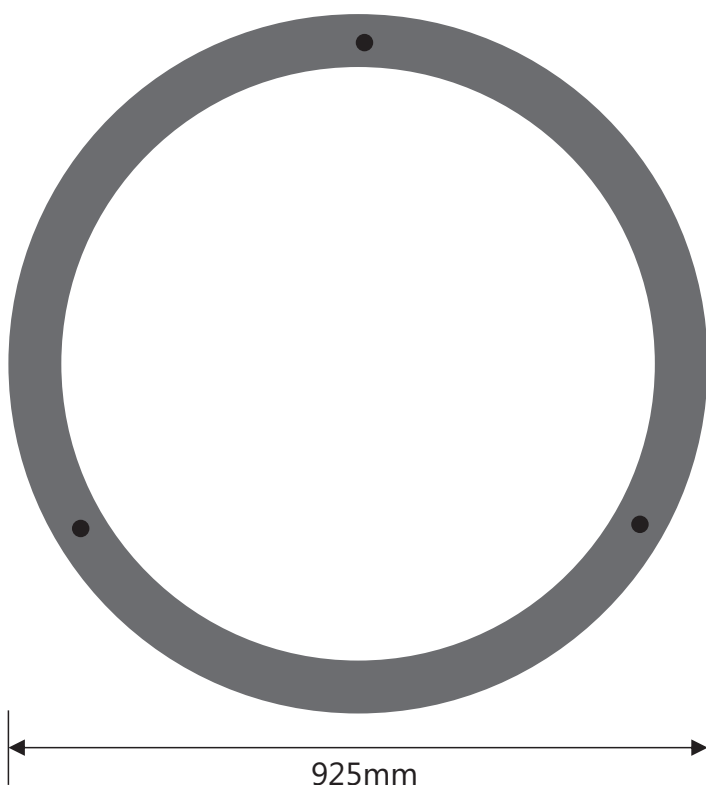
If any dirt gets in the acrylic joins most the time it would just blow out. If any gets forced in too far it may need blowing out with an air gun.

# fitting guide

The Eclipsis light fittings must be kept horizontal at all times unless being mounted to a solid surface such as a wall.

Whilst fitting the Eclipsis light fittings you must make sure they are supported evenly whether they are being hung horizontally or mounted vertically.

Best practice is to lift in place carefully, fastening onto the fixing points whilst supporting evenly until secure.



The 400mm, 600mm and 925mm rings all have three fitting points. Bespoke sizes may have four or more fitting points depending on the size.

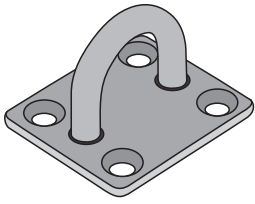
Hang the rings evenly from separate fixings all going vertically to individual points on the ceiling.

The same applies for Eclipsis Squared and Eclipsis Curves.

We can supply wires with snap hooks, eye plates and adjustable gripple hangers as part of our fitting kits which can be supplied when required with the Eclipsis light fittings. You can see how these are installed overleaf.

**NB: If you are mounting the rings on a wall or directly to a solid surface we will supply a fitting template.**

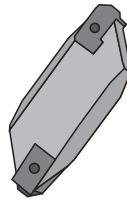
# using the fitting kits



**Eye Plate  
with Screws**



**Snap Hook  
with 10m Steel  
Wire Attached**

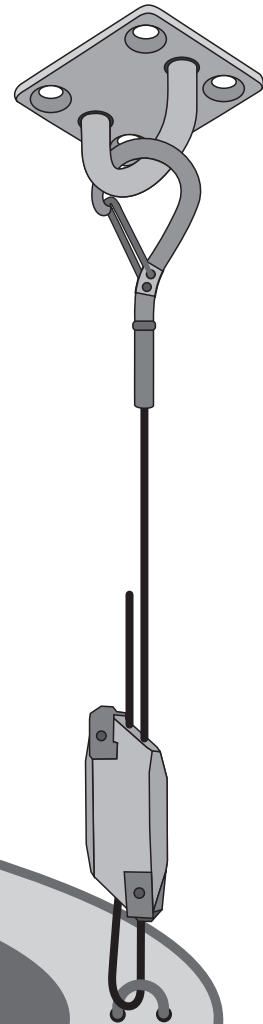


**Adjustable  
Gripple  
Hanger**

The eye plate is screwed securely into the ceiling. The snap hook which has a 10m coil of steel wire attached to it is then hung from the eye plate.

The steel wire is then passed through the adjustable Gripple hanger, through the d-ring on top of the Eclipsis light fitting and back into the Gripple hanger.

The height of the Eclipsis light fitting can then be adjusted by altering the positioning of the Gripple hanger with an Alan key.



**NB: Drawing not to scale, for  
illustrative purposes only.**

# wiring guide

The distance between the Eclipsis fitting and the power supply/RGB controller (where applicable) can be extended to 15m. To minimise voltage drop please use 0.75-1mm cable. When extending it is vital that the wires are connected correctly. Although the LEDs are hard wearing and easy to use, they can be damaged if incorrectly wired together.

Each Eclipsis fitting has a pre-wired terminal block attached to the top, and each power supply is pre-wired and has 2, 3 or 4 output push fixings for easy connection.

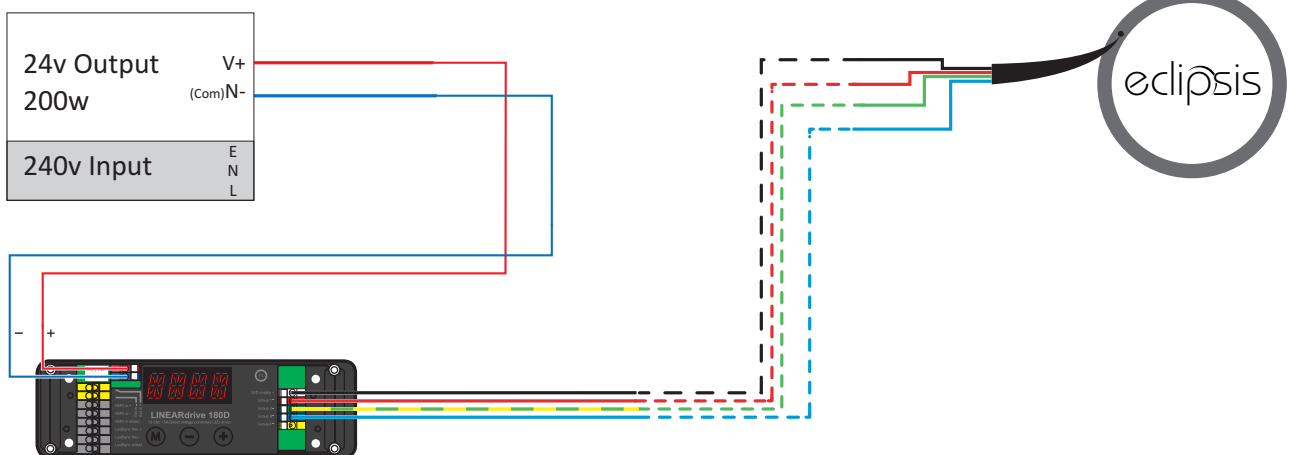
**DO NOT FORCE ANY WIRES INSIDE THE ECLIPSIS RING. THIS COULD CAUSE IRREPARABLE DAMAGE BY BREAKING SOLDER JOINTS, SHORTING OUT OF THE LED OR SIMPLY SNAPPING CONNECTIONS.**

Full LED specification overleaf.

## white



## RGB



Dotted lines show where extension wire is required  
0.75-1mm Extension cable should be used for a max  
distance of 15m

# SMD 5050 Flexible Strip Light

- ✓ CE, RoHS, ISO9001:2008 certified
- ✓ Three-year warranty
- ✓ 5m/roll; cut every 3-LED; flexible bending
- ✓ DC12V power supply; eco-friendly and energy efficient; 30% power consumption reduction
- ✓ IP65 protection grade; waterproof due to silica gel LED encapsulation

SMD 5050 flexible strip light is applicable for advertising like ultra slim light box, luminous character, and light-emitting sign. Also, it has decorative effect and can be used for the decoration of monopoly store, marketplace, home furnishing and the like. As well, it can render the atmosphere in leisure entertainment places if used for bias lighting.

<b>Luminous Flux(lm)</b>	R/G/B/Y/WW/W 1350/3150/720/ 1350/5400/5400
<b>LED Qty/roll</b>	300pcs
<b>Working Voltage</b>	DC12V
<b>Power Consumption</b>	72 W
<b>Dimension</b>	5000*10*3.7mm
<b>IP Grade</b>	IP65/IP68
<b>Available Colors</b>	R/G/B/Y/WW/W/RGB
<b>Viewing Angle(θ)</b>	≥ 120°
<b>WaveLength( nm/K )</b>	623-630 / 515-525 / 465-475 / 585-593 / 2800-3200 / 5500-6500
<b>Lifespan</b>	> 50,000 hours
<b>Drive Method</b>	Constant voltage
<b>Wires</b>	UI1007 20# line Red & Black wires, Red: DC+', 'Black: DC-' length 150mm
<b>Standard Length in Serial Connection</b>	5M
<b>Maximum Length in Serial Connection</b>	5M
<b>Package</b>	Antistatic bag
<b>FPC Color</b>	Brown/White
<b>Double-sided Adhesive</b>	3M adhesive tape
<b>Working Temperature</b>	-40°C- +50°C
<b>Storage Temperature</b>	-50°C- +60°C

# lumen levels

The lumen outputs below are calculated for the three standard sized Eclipsis light fittings. All standard sized fittings built at the regular specification contain one strip of LEDs. As each Eclipsis light fitting is hand made to order and are often built to a bespoke size if you have specified a non-standard size, please contact us and we will provide you with the lumen level for that specific unit.

**400mm Eclipsis (standard specification): 1085 lumens**

**600mm Eclipsis (standard specification): 1628 lumens**

**925mm Eclipsis (standard specification): 2509 lumens**

Each Eclipsis light fitting can also be fitting with extra rows of LEDs to increase the lumen count of the fitting to the desired level. If you require extra rows of LEDs please contact us.


**■ Features :**

- Constant voltage design
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Over current / Over voltage
- Cooling by free air convection
- Fully encapsulated with IP67 level (Note.8)
- Fully isolated plastic case
- Class II power unit, no FG
- Pass LPS
- Suitable for LED lighting and moving sign applications (Note.7)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

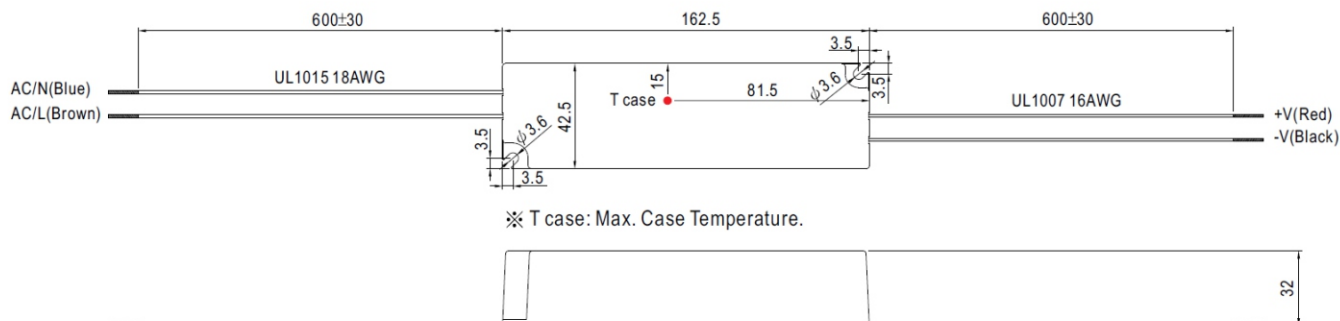

**SPECIFICATION**

MODEL		LPV-60-5	LPV-60-12	LPV-60-15	LPV-60-24	LPV-60-36	LPV-60-48
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	36V	48V
	RATED CURRENT	8A	5A	4A	2.5A	1.67A	1.25A
	CURRENT RANGE	0 ~ 8A	0 ~ 5A	0 ~ 4A	0 ~ 2.5A	0 ~ 1.67A	0 ~ 1.25A
	RATED POWER	40W	60W	60W	60W	60W	60W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.3	±8.0%	±5.0%				
	LINE REGULATION	±1.0%					
	LOAD REGULATION	±6.0%	±2.0%				
SETUP, RISE TIME Note.6	500ms, 20ms / 230VAC    500ms, 20ms / 115VAC at full load(for 5~36V) ; 500ms, 30ms / 230VAC    500ms, 30ms / 115VAC at full load(for 48V)						
HOLD UP TIME (Typ.)	50ms/230VAC		16ms/115VAC at full load				
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC		127 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	76%	83%	83%	86%	86%	86%
	AC CURRENT (Typ.)	1.2A/115VAC    1A/230VAC					
	INRUSH CURRENT(max.)	COLD START 30A/115VAC		60A/230VAC			
	LEAKAGE CURRENT	0.25mA / 240VAC					
PROTECTION	OVER CURRENT	110 ~ 150% rated output power					
		Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	41.4 ~ 48.6V	55.2 ~ 64.8V
		Protection type : Shut down o/p voltage, re-power on to recover					
ENVIRONMENT	WORKING TEMP.	-30 ~ +70℃ (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC	SAFETY STANDARDS	UL879, UL1310 Class 2(except for LPV-60-5), CAN/CSA C22.2 No. 223-M91(except for LPV-60-5,LPV-60-48), IP67 approved ; design refer to TUV EN60950-1, EN61347-2-13					
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC					
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25℃ / 70% RH					
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A					
OTHERS	MTBF	732Khrs min.    MIL-HDBK-217F (25℃)					
	DIMENSION	162.5*42.5*32mm (L*W*H)					
	PACKING	0.4Kg; 32pcs/13.8Kg/0.56CUFT					
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltage. Please check the static characteristics for more details. 5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. 7. In the European market this product is only suitable for LED lighting applications that don't have to comply with the harmonic current requirements of EN61000-3-2 Class C. 8. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.						



## Mechanical Specification

Case No. 976A Unit:mm

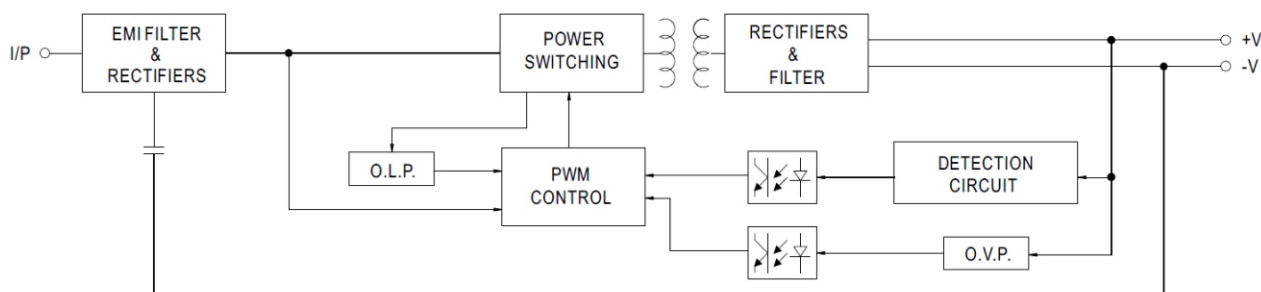


## Recommend Mounting Direction

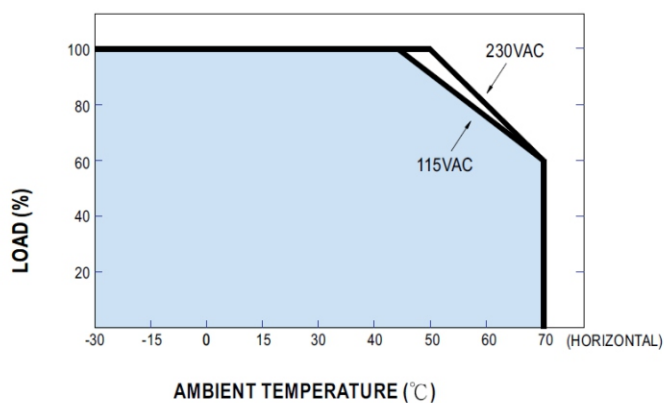


## Block Diagram

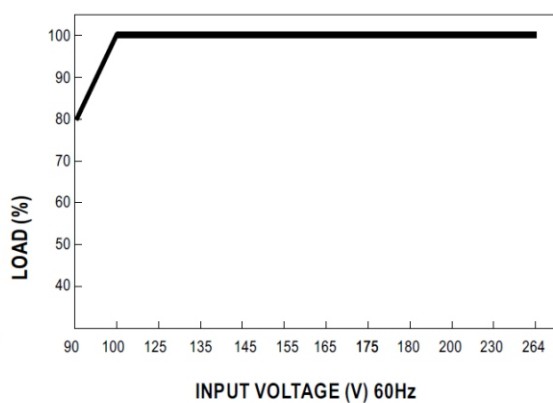
fosc : 65KHz



## Derating Curve



## Static Characteristics



# Colour is our nature



## 4/6/24A Full-Colour Dimmable LED Driver

LINEARdrive DC is a constant voltage LED driver with multiple LED outputs that are controlled over four channels. It is targeted at larger networked and smaller standalone installations that require dimmable, low-power full-colour static or dynamic LED lighting. LINEARdrive DC is DALI, DMX/ RDM and LedSync compatible.

### Applications

- Entertainment lighting
- Signage / advertising lighting
- Decorative lighting
- Full-colour architectural lighting
- Cove lighting
- Dynamic colour panel lighting

### Features & benefits

#### Input

- Voltage: 12 - 28 VDC for LINEARdrive 100D/180D/720D1  
12 - 48 VDC for LINEARdrive 720D2
- Current, max:
  - LINEARdrive 100D: 4A at 24V, 6A at 12V
  - LINEARdrive 180D: 6A, irrespective of PSU voltage
  - LINEARdrive 720D: 24A, irrespective of PSU voltage



LINEARdrive 720D

#### Output

- Voltage: 5V, 12V, 24V or 48V (5V and 48V: LINEARdrive 720D2 only)
- Max load per output:

	RGBW @ 12V	RGB @ 12V	RGBW @ 24V	RGB @ 24V	RGBW @ 48V	RGB @ 48V
LINEARdrive 100D	1.5A	2A	1A	1.3A	n.a.	n.a.
LINEARdrive 180D	1.5A	2A	1.5A	2A	n.a.	n.a.
LINEARdrive 720D1	6A	6A	6A	6A	n.a.	n.a.
LINEARdrive 720D2	6A	6A	6A	6A	6A	6A

#### General

- DALI (LINEARdrive 720D only), USITT DMX512A / RDM (ANSI E1.20) and LedSync compatible
- HydraDrive: 15-bit resolution
- Dimming control: smooth dimming from 100% to 0.1%, gamma-corrected curve
- Intuitive 3-button user interface for on-the-fly configuration
- Interface for external control device: 10k  $\Omega$  potentiometer, 0-10V source or momentary switch
- ShowMaster: 9 default shows, up to 20 user-defined shows, uploadable via TOOLbox and PC software

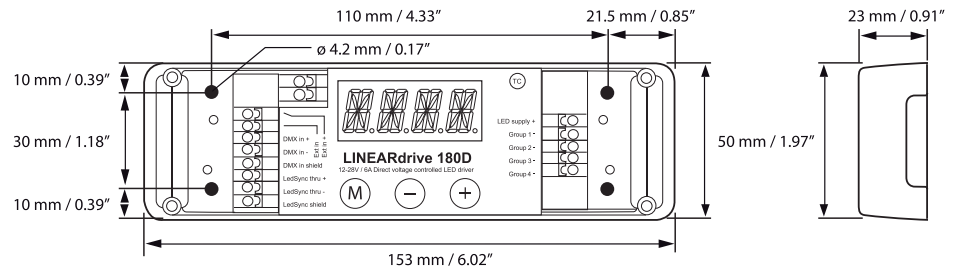
### Product offering

Description	ProductOrder no.
LINEARdrive DC, 100W, DMX/0-10V, 4 control channels, constant voltage, 4x LED outputs	LINEAR 100DLIN100D2
LINEARdrive DC, 180W, DMX/0-10V, 4 control channels, constant voltage, 4x LED outputs	LINEAR 180DLIN180D2
LINEARdrive DC, 720W, 48V, DMX/DALI/0-10V, 4 control channels, constant voltage, 4x LED outputs	LINEAR 720DLIN720D2

## Dimensions, weight, packaging

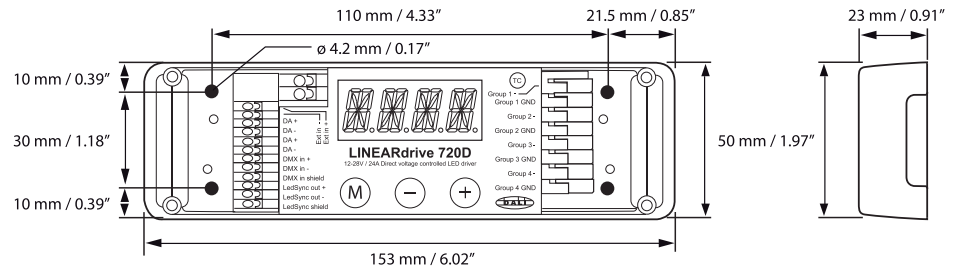
### LINEARdrive 100D/180D

- Weight: 120 g, 4.2 oz
- Packaging: 12 pcs/carton



### LINEARdrive 720D

- Weight: 144 g, 5.0 oz
- Packaging: 12 pcs/carton



## Connections

### Connectors LINEARdrive 100D/180D

- VDC: + and -
- DMX in: +, - and shield
- LedSync thru: +, - and shield
- Ext in: + and -
- LED outputs: 4 outputs with common +

### Wiring

- Cross section: 0.5 - 1.5 mm<sup>2</sup>, AWG 20 - 16
- Strip length: 9 mm / 0.35 in.

### Connectors LINEARdrive 720D

- VDC: + and -
- DMX in: +, - and shield
- LedSync out: +, - and shield
- DALI: + and - (x2)
- Ext in: + and -
- LED outputs: + and - (x4)

## Other information

### Certifications

- CE
- IEC 61347, EN 55015, IEC 61003, EN 61547
- UL: UL Recognized Component (file no. E333135)  
LINEARdrive 100D is Class 2 output.

### Environmental ratings

- Ta range: -20°C...50°C / -4°F...122°F
- Tc max: 65°C / 149°F
- For use in dry locations

### Control compatibility

- DALI control gear (LINEARdrive 720D)
- DMX512A and RDM explore & address (ANSI E1.20) control gear
- Standard 0-10V switch controls



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### Other documentation and support

Visit [www.eldoled.com/support](http://www.eldoled.com/support) for further documentation such as quick start guide, wiring diagram, tech sheet and 3D IGES files.

Sales support EU & Rest of World: [sales@eldoled.com](mailto:sales@eldoled.com)  
Sales support US/Canada: [nasales@eldoled.com](mailto:nasales@eldoled.com)

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