eldoLED
your product | *our drive*

Colour
is our nature

LINEARdrive 720D

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
- Full-colour architectural lighting
- Signage / advertising lighting
- Cove lighting
- Decorative 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

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: 10kΩ 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

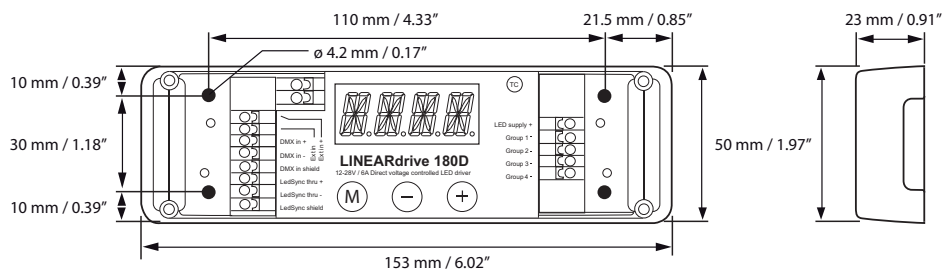| Description	Product	Order no.
LINEARdrive DC, 100W, DMX/0-10V, 4 control channels, constant voltage, 4x LED outputs	LINEAR 100D	LIN100D2
LINEARdrive DC, 180W, DMX/0-10V, 4 control channels, constant voltage, 4x LED outputs	LINEAR 180D	LIN180D2
LINEARdrive DC, 720W, 48V, DMX/DALI/0-10V, 4 control channels, constant voltage, 4x LED outputs	LINEAR 720D	LIN720D2

Dimensions, weight, packaging

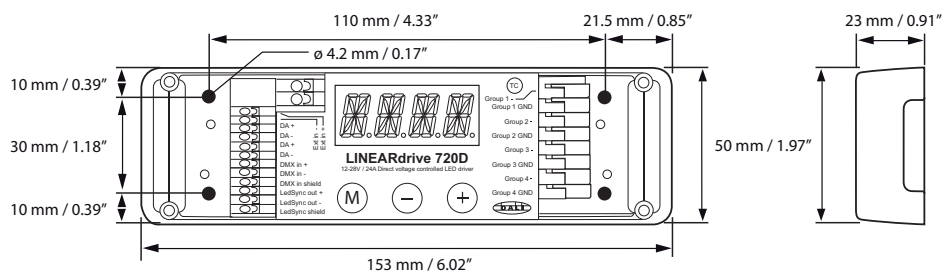### LINEARdrive 100D/180D

• 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^2, 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

Other documentation and support

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

Warranty

eldoLED represents and warrants that for a period of 3 (three) years, as of the date of invoice, Products materially meet the specifications and specifically agreed upon quality, both as stated in the applicable datasheet and/or written design-in specifications, or as stated in writing otherwise by eldoLED, provided that these specifications are explicitly designated by eldoLED as "warranted specifications".
For the complete warranty text, visit www.eldoled.com/terms.