eldoLED
your product | our drive

Colour is our nature

4x2A Full-Colour Dimmable LED Driver

LINEARdrive AC 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 AC 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: AC 120-277V
  DC 120-275V
- Current, max:
  1A at 120V/60Hz
  0.5A at 230V/50Hz
  0.45A at 277V/60Hz
- Frequency: 50/60Hz

LINEARdrive 100/A

Output
- Voltage: 12VDC or 24VDC, selectable via DIP switch
- Current: 2.8A absolute max rating per output
- Power: 100W max
- 4 LED outputs and 1 common anode

  For a description of various use cases at different output voltages and loads, refer to the driver's tech sheet.

LINEARdrive 100/S

LINEARdrive 100/M

General
- Power factor: > 0.94
- DALI, DMX/RDM and LedSync compatible
- Hybrid HydraDrive: 15-bit resolution
- Dimming control: smooth dimming from 100% to 0%, choice of linear or logarithmic dimming curve
- Intuitive 3-button user interface for on-the-fly configuration
- Interface for external control device: 10kΩ potentiometer or momentary switch
- DIP switch for 12V or 24V operation
- ShowMaster: 9 default shows, up to 20 user-defined shows, uploadable via TOOLbox pro and ShowMaster DMX software

Product offering

Description	Product	Order no.
LINEARdrive AC, 100W, DMX/DALI, 4 control channels, constant voltage, 4x 12/24V LED outputs, long metal/plastic	LINEAR 100/A	LIN100A1
LINEARdrive AC, 100W, DMX/DALI, 4 control channels, constant voltage, 4x 12/24V LED outputs, square metal	LINEAR 100/S	LIN100S1
LINEARdrive AC, 100W, DMX/DALI, 4 control channels, constant voltage, 4x 12/24V LED outputs, long metal	LINEAR 100/M	LIN100M1

Dimensions, weight, packaging
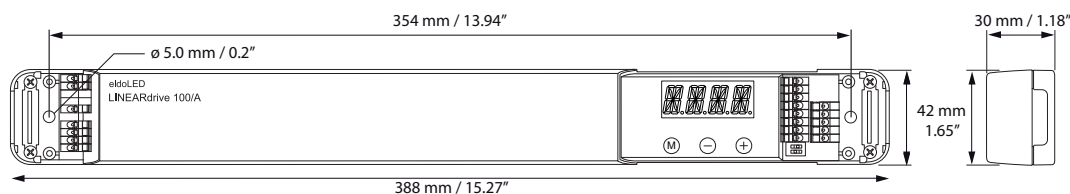
LINEARdrive 100/A
- Weight: 705 g, 26 oz
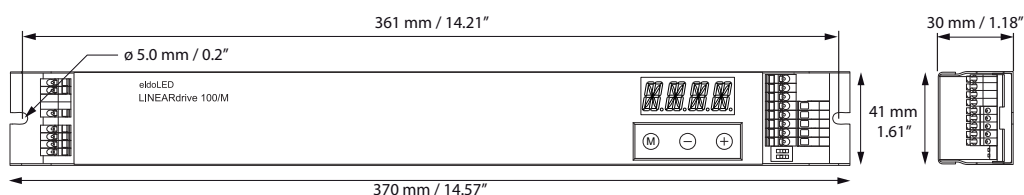- Packaging: 20 pcs/carton

354 mm / 13.94″
ø 5.0 mm / 0.2″
eldoLED LINEARdrive 100/A
30 mm / 1.18″
42 mm 1.65″
388 mm / 15.27″

LINEARdrive 100/S
- Weight: 880 g, 31oz
- Packaging: 20 pcs/carton

219.5 mm / 8.64″
ø 5.0 mm / 0.2″
eldoLED LINEARdrive 100/S
15 mm / 0.59″
50 mm / 1.97″
15 mm / 0.59″
30 mm / 1.18″
80 mm 3.15″
230 mm / 9.06″
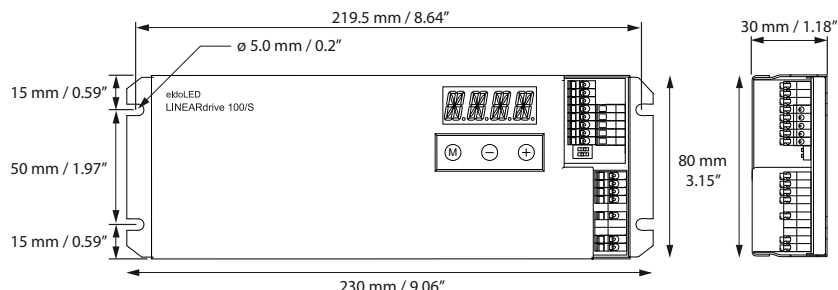
LINEARdrive 100/M
- Weight: 880 g, 31 oz
- Packaging: 20 pcs/carton

361 mm / 14.21″
ø 5.0 mm / 0.2″
eldoLED LINEARdrive 100/M
30 mm / 1.18″
41 mm 1.61″
370 mm / 14.57″

Connections

Connectors
- Power: Line, Neutral and Ground
- DALI: + and - (x2)
- DMX in: +, - and shield
- LedSync out: +, - and shield
- Ext in: + and -

Connectors (cont'd)
- LED outputs: 4 outputs with common +
- LEDcode/NTC: + and -

Wiring
- Cross section: 0.5 - 1.5 mm^2, AWG 20 - 16
- Strip length: 9 mm / 0.35 in.

Other information

Certifications
- EN 61347-1 / -2-7 / -2-13, EN 62384, EN 55015, EN 55022, EN 61000-3-2, EN 61547, EN 62386-101/102/207
- CE
- ENEC by VDE
- UL: Recognized Component for US and Canada (file no. E333135), according to UL1310 and UL8750. Class 2 output for US and Canada.

Environmental ratings
- Ta range: -40 °C...50 °C / -40 °F...122 °F
- Tc max: 90° C / 194 °F (100/A) and 85 °C / 185°F (100/M and 100/S)
- For use in damp and dry locations

Control compatibility
- DALI control gear
- DMX512A and RDM explore & address (ANSI E1.20) control gear

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Other documentation and support
Visit www.eldoled.com/ACsupport 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.