eldoLED
your product | *our drive*

Light
is our **passion**

0-10V Dimmable and Non-Dimmable LED Drivers

ECOdrive is a family of programmable digital LED drivers that provides standard LED fixtures with the smoothest flicker-free 1% dimming or on-off functionality. ECOdrive is dimmable via 0-10V controls and has a single configurable constant current LED output, making it simple to design in. It also incorporates LEDcode technology, enabling the output to be programmed over a wide application area and simple extension of the feature set to include time, motion and brightness based intelligence.

Applications

- Open office space lighting
- Healthcare lighting
- Hospitality lighting
- High and Low Bay lighting
- Retail lighting

Features & benefits

Features
- Hybrid HydraDrive: provides the smoothest flicker-free high-performance dimming to 1% (561/M and 566/M)
- LEDcode technology: configurable design to work with most constant current LED modules and arrays, while providing a connection point to integrated peripheral controls
- NTC interface for robust thermal management
- Cold start feature: stable start-up in less than a second, without any flicker
- Protected electronics: on restart, a delay of 6 to 7 seconds ensures that there is no residual power present before the driver is powered up again

ECOdrive 561/M

Benefits
- Increase performance and capability of any LED fixture
- Reduce inventory and decrease lead times with configurable drivers
- Short lead times, designed to meet the most aggressive timelines
- Trusted brand with proven track record of performance and reliability

Product offering

Description	Product	Order no.
ECOdrive, 50W, 0-10V, constant current, 1x 55V LED output, flying leads, metal long	ECO 561/M	EC0561M2
ECOdrive, 50W, 0-10V, nLight, constant current, 1x 55V LED output, flying leads, metal long	ECO 566/M	EC0566M2
ECOdrive, 50W, on/off, constant current, 1x 55V LED output, flying leads, metal long	ECO 567/M	EC0567M2

Technical specifications

Input
- Voltage: AC 100-277V
- Current: max 0.7A
- Frequency: 47 - 63Hz

Output
- Class 2 LED output
- Voltage: 55V max
- Current range: settable from 150mA to 1,400mA in 25mA steps
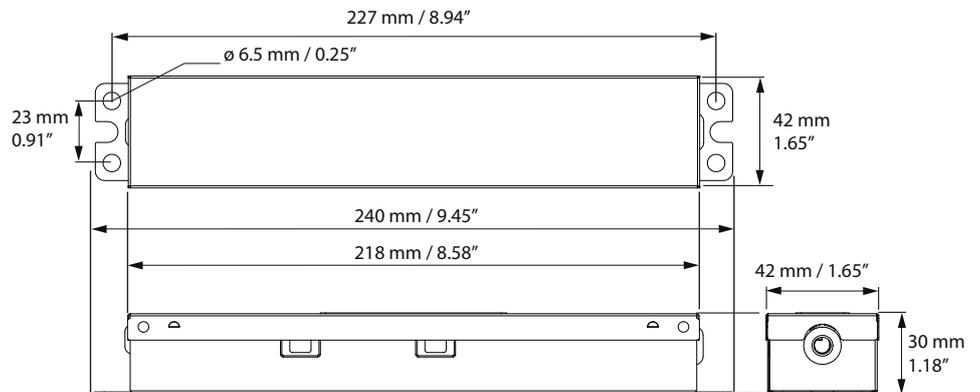- Power: 50W max

General
- Power factor: > 0.90 at full load
- 0-10V compatible. ECOdrive 561/M and 566/M are current source drivers, compatible with both sink and current source controllers.
  For a list of compatible 0-10V dimmers, please visit www.eldoled.com/compatibility.
- Highly efficient over a wide power and voltage range: 89% at full load, ≥ 85% above 67% load
- Maximum (rated) power available over wide LED voltage (30-55V) and LED current range (150-1,400mA)

Dimensions, weight & packaging

ECOdrive 561/M, 566/M, 567/M
- Weight: 400 g, 14.1 oz
- Packaging: 40pcs/carton

Connections

	Connection type	Color	AWG	Strip length	Wire length
Line voltage in		Black, white, green			453mm, 17.8"
0-10V *	Flying leads	Violet, grey	18AWG solid	12.7mm, 1/2"	663mm, 26.1"
AUX **		Blue			
LED output		Red/white, black/white			150mm, 5.9"
LEDcode/NTC	TI445022-2	Yellow, brown	22AWG stranded	n.a.	

* Only available on ECOdrive 561/M and 566/M

** Only available on ECOdrive 566/M

LEDcode configuration

- USB-LEDcode interface: TOOLbox pro (part number: TLU20503)
- FluxTool software: for Mac and PC freely downloadable from the TOOLbox pro web page

Other information

Environmental ratings
- For use in damp and dry locations
- Ta range: -20°C...+50°C
- Tc max: 75°C
- Tc lifetime: 75°C

Control compatibility
- Standard 0-10V wall mount dimmers and switch controls (561/M and 566/M)

Certifications
- EN 61347-1 / -2-7 / -2-13, EN 62384, EN 55015, EN 55022, EN 61000-3-2, EN 61547, EN 60929 Annex E
- UL: Recognized Component (E333135), according to UL131 0 and UL8750. LED output Class 2.
- FCC: Title 47CFR Part 15 Class B

c**UL**us *LEDcode* 0-10V

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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 5 (five) 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.

More product documentation and eldoLED's terms and conditions are available at www.eldoled.com.