

ECOdrive

Programmable digital ECOdrive LED driver providing standard LED fixtures with the smoothest flicker-free dimming to 1% light output, delivering value to any application. The LED driver is compatible with the 0-10V lighting control protocol, and works seamlessly together with LED modules, controls and intelligent luminaire elements.

Product offering

Intelligent LED Driver/Controller	Brown Brown 10320n Within ~ (mainternal Green (mainternal) Upper party UMC Bio Solition Upper party UMC Bio Solition Upper party (mainternal) Upper party (mainterna) Upper party (mainternal)
Input voltage: AC 120-250V, 50-60Hz DC 120-250V UL approved: AC 120-277V, 50-60Hz Input current: 0.35A max	
LED outputs voltage: DC < 60V LED output voltage: DC < 60V LED output current: 200-1050mA (settable) LED output power: 30W max η: 86% typ PF: ≥0.9C THD: <20%	For operation with LEDs only LED output UL class 2 For use in damp and dry locations RoHS compliant - FGC compliant Designed in EU & US - Made in China
Ta: -20 °C to +50 °C, -4 °F to +122 °F Tc: +80 °C, +176 °F	Disconnect power when installing or servicing. v02 Install in accordance with national and local electrical code. CAUTION Ground driver case to avoid possible shock hazard.
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ECOdrive 30S-M1Z0A

Part number (P/N)	EC30S-M1Z0A1
Product description	ECOdrive, 30W, 0-10V, 1 control channel, constant current, 1x 42V output, side feed, square metal
Features & benefits	
Natural dimming	Dim to 1%, smooth brightness changes, excellent flicker performance, adaptable dimming curves, configurable minimum dimming level
Symbiosis	Seamless interoperability with LED modules, controls and in-luminaire intelligent devices
LEDcode	Configurable design to work with most constant current LED modules and arrays, while providing a connection point to integrated peripheral controls
Programmable	Fine-tune your driver for any application
Performance	Universal input voltage range, low inrush current and total harmonic distortion (THD), high power factor and efficiency
Camera compatibility	Hybrid HydraDrive technology is proven to work in TV studios and security camera environments

Project name:	Contact details:
Project number:	
LED driver order number:	

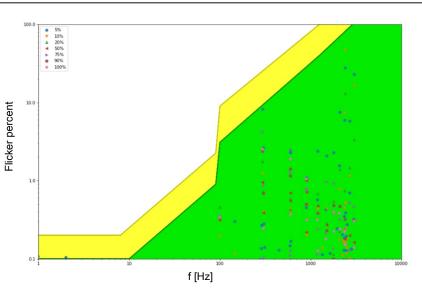
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Typical flicker performance

Typical flicker performance

Typical flicker percent as a function of frequency, measured across the dimming range. The results are overlaid with the low-risk (yellow) and no observable effect (green) levels as defined in IEEE P1789.



Electrical specifications

Driver type	constant current
Number of LED outputs	1
Maximum LED output power	30W
Programmable LED output current range	150 - 1400mA
LED output type	Programmable in 1mA increments within specified current range
LED output voltage range	15 - 42V
Nominal input voltage range AC	120 - 277V (UL)
Control protocol	0-10V
	LEDcode
Control channels	1

Certifications



Warranty

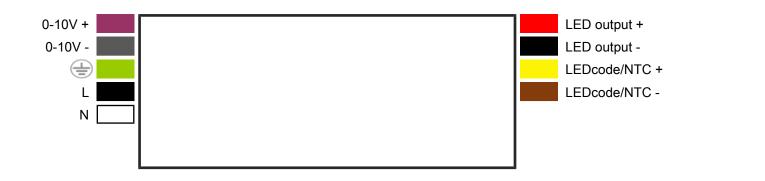
Warranty period

General Terms and Conditions

Dimensions, weight, packaging

Length (L)	typical: 130.0 mm / 5.12 in
Width (W)	typical: 72.4 mm / 2.85 in
Height (H)	typical: 29.0 mm / 1.14 in
Weight	282 g
Products per box	40 pcs

Connector layout



Order number configurator

OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	DODDmin Minimum dimming level DODD Start-up performance
P/N	LED driver part number.
LED output current	Enter value in 1mA increments, e.g. "811" for 811mA
Dimming curve	"LOG" for logarithmic (default) "LIN" for linear "SLN" for soft-linear "SQU" for square
Minimum dimming level	Leave blank for default minimum dimming level of 1.0%. Specify in 0.1% increments, e.g. "10.5" for 10.5%.
Start-up performance	Enter "CA24" for improved start-up performance to comply with ENERGY STAR Luminaires v2.0 and the latest CA Title 24 standard, effective January 2017.



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