

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 DALI-2 lighting control protocol, and works seamlessly together with LED modules, controls and intelligent luminaire elements.

Product offering



ECOdrive 20MA-E1Z0D

Part number (P/N)	EC20MA-E1Z0D2
Product description	ECOdrive, 20W, DALI-2, Pulse dimming, 1 control channel, constant current, 1x 40V output, side feed, long plastic

Features & benefits

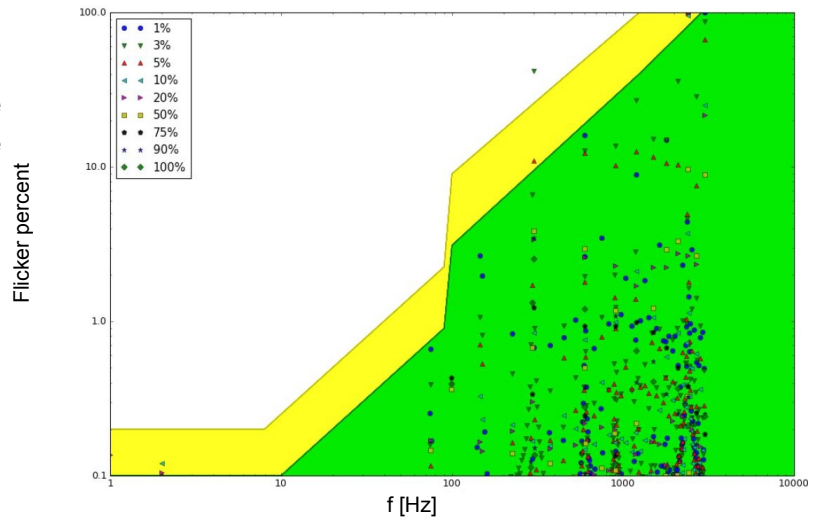
Natural dimming	Dim to 1%, smooth brightness changes, excellent flicker performance, adaptable dimming curves, configurable minimum dimming level
Ceiling cut-out requirements	LED driver fits through ceiling cut-out diameter of 45mm for recessed downlight luminaires
LEDcode	LEDcode2 connects to integrated digital accessories, supports location-based IoT applications and enables wired and wireless lighting control through LEDcode peripheral devices
Programmable	Fine-tune your driver for any application
Performance	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
Pulse dimming	Different switching and dimming functions are initiated by pressing and holding the standard mains voltage switch for varying lengths of time

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

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	20W
Programmable LED output current range	150 - 1050mA
LED output type	Programmable in 1mA increments within specified current range
LED output voltage range	2 - 40V
Nominal input voltage range AC	220 - 240V (ENEC)
Nominal input voltage range DC	176 - 250V
Control protocol	LEDcode2 DALI-2 Device type 6 & Pulse dimming
Control channels	1

Certifications



Warranty

Warranty period [General Terms and Conditions](#)

Dimensions, weight, packaging

Length (L) typical: 150.5 mm / 5.93 in

Width (W) typical: 42.1 mm / 1.66 in

Height (H) typical: 27.9 mm / 1.1 in

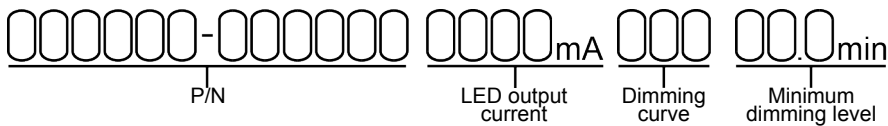
Weight 100 g

Products per box 50 pcs

Connector layout



Order number configurator



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

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%.

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