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THE ART OF LIGHTING

eldoLED LED technology

A9950361 SOLOdrive 30W Constant Current 1x Dali-Version

30W DALI Dimmable LED Driver

SOLOdrive 360 is a DALI dimmable, constant current LED driver with a single LED output. It is targeted at larger networked and smaller standalone installations that require dimmable, high-power, general white LED lighting. Dimming is beautiful - smooth all the way down to 0. SOLOdrive is programmable over LEDcode to suit a wide application area. LEDcode also allows easy extension of the SOLOdrive's feature set with time, motion and brightness based intelligence.

Applications

- Office lighting
- Architectural lighting
- Hospitality lighting
- High and Low Bay lighting
- Retail lighting

Features & benefits

Input
- Voltage: 120 - 277 VAC
- Current, max: 0.35A
- Frequency: 50/60Hz

Output
- Voltage: 55V typ
- Current range: settable from 200mA to 1,050mA
- Power: 30W max

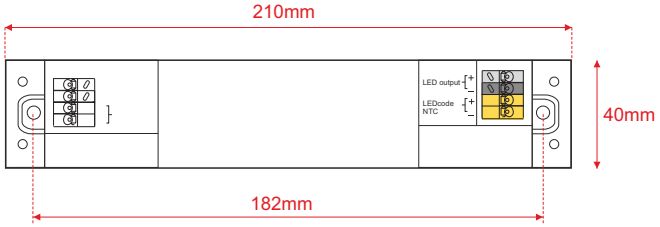
General
- Power factor: > 0.90 at full load
- DALI compatible (IEC 62386-101/102/207)
- Hybrid HydraDrive: efficient, smooth and flicker-free dimming
- Full dimming control: 100%-0%, choice of linear or logarithmic dimming curve
- High efficiency over a wide power and voltage range: 85% at full load, ≥ 84% above 20W output
- Maximum (rated) power available over wide LED voltage (30-55V) and LED current range (200-1,050mA)
- NTC interface for robust thermal management
- LEDcode: programming interface (LED output current, NTC temperature, dimming curve, minimum dimming level) and sensor/extended feature set interface

LEDcode configuration

- USB-LEDcode interface: TOOLbox pro (part number: A9915056)
- FluxTool software: for Mac and PC freely downloadable from

www.eldoled.com.fluxtool

- Dimensions in mm LxWxH: 210 x 40 x 38



Connections

Primary side
- Power: Line, Neutral and Ground
- DALI: + and -

Secondary side
- LED output: + and -
- LEDcode/NTC: + and -

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

Environmental ratings
- Ta range: -20°C...+50°C / -4°F...+122°F
- Tc max: +65°C / +149°F
- For use in damp and dry locations

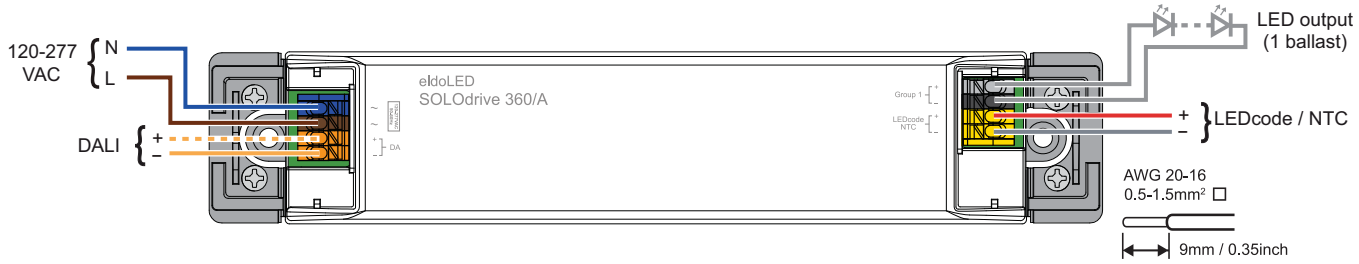
Control compatibility
- DALI control gear

- Weight: 284 g, 10 oz

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

A9950361 SOLOdrive 30W Constant Current 1xDali-Version Connections

Pay attention when connecting the LED group: polarity reversal results in no light output and often damages the LEDs.



WARNING: Risk of electrical shock. May result in serious injury or death. Disconnect power before servicing or installing.

CAUTION: The device may only be connected and installed by a qualified electrician. All applicable regulations, legislation and building codes must be observed. Incorrect installation of the device can cause irreparable damage to the device and the connected LEDs.

120-277 VAC
The driver has been designed for use with universal mains voltage input of AC 120-277V, 50/60Hz, or with DC input of 120-250V (emergency lighting). The L/N cable's outer diameter must be between 6-10mm / 0.24-0.39in.

DALI
You can use these connectors to connect the driver to a DALI network.

LED output
Indicates the location of the connectors for your LED group.

LED wiring distance
Maximum wiring distance at full load (from driver to LED load):

AWG value	20	19	18	17	16
Distance (m)	14	18	22	28	36
Distance (ft)	46	59	72	92	118

Please observe voltage drop over long wire lengths.

Longer wire lengths increase EMI susceptibility.

LEDcode/NTC
LEDcode allows configuration of
- Dimming curve: lin / log
- Minimum dimming level
- NTC throttle temperature
- LED drive current per output: from 200mA-1,050mA in 1mA steps

Programming the driver via LEDcode requires a TOOLbox pro and FluxTool software.

Connecting a 47kΩ NTC thermistor enables closed loop thermal control. The NTC throttle temperature is programmable through LEDcode.