

OPTOTRONIC - 2DIM IP64

0...10 V, AstroDIM – constant current LED drivers



Areas of application

- Street and urban lighting
- Industry
- Suitable for luminaires of protection classes I and II

Product family benefits

- 2DIM functionality in one device (AstroDIM, 0...10 V)
- High surge protection: up to 6 kV (in protection class I or II)
- Fast programming without mains voltage
- High efficiency
- Great flexibility due to wide operating temperature range of -40...55 °C
- Protection through double isolation between mains input and LED output
- IP rating: IP64

Product family features

- Available with different wattage: 50 W, 100 W, 110 W
- Input voltage: 120...277 V
- Available with output current range: up to 1,400 mA
- Flexible current setting with one additional wire (LEDset2)
- AstroDIM for autonomous dimming with five independent levels (astro mode)
- Isolated 0...10 V interface for unidirectional telemanagement systems
- Constant Lumen Output (CLO)
- Overtemperature protection with external NTC or LEDset2 interface

Product family datasheet

Equipment / Accessories

- OT Programmer hardware for configuration of 2DIM ECGs necessary
 - Programmable via Tuner4TRONIC software
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Application advice

For more detailed application information and graphics please see product datasheet.

Additional product information

- 800 mA type: Default output current is 700 mA without any resistor connected to the LEDset port.
 - 1250 mA type: Default output current is 1000 mA without any resistor connected to the LEDset port.
 - 1400 mA type: Default output current is 1000 mA without any resistor connected to the LEDset port.
 - The LEDset2 interface is disabled by default and needs to be activated by the programming software. In this case the LEDset2 interface is activated the external thermal protection feature is disabled.
 - The driver withstands an input voltage of up to 350 Vac for a maximum of two hours.
 - The driver may shut down the load if the input voltage of the load is below the allowed minimum output voltage until the short circuit is removed or the correct load is connected and a power off/on cycle is performed.
 - In case the input voltage of the load exceeds the output voltage range of the driver, it automatically reduces the output current to keep the output voltage controlled to the maximum allowed output voltage.
 - The driver automatically reduces the output current in case the maximum allowed output power is exceeded, as long as the input voltage of the load is within the declared output voltage range of the driver. In all other cases the driver may shut down the load.
 - The driver may shut down in case no load is connected to the driver output until the correct load is connected and a power off/on cycle is performed. Hot-plug of the load or external switching on the secondary side is not allowed.
 - The EQUI (housing) shall be connected to the heat sink of the LED module to improve the surge withstand capability of the system and EMI in critical luminaires.
 - By default the LEDset / NTCset / Prog+ port is set as NTCset port in resistor based mode with following values: start derating: 6.3 kOhm, end derating 5.0 kOhm, derating level 50 %.
 - The default dimming mode is 0...10 V, AstroDIM-PD is disabled.- 0...10 V: 30 % minimum dimming level
 - The constant lumen feature is disabled by default.
 - If any output level is below the physical min level, the physical min level will be used.
 - Dimming down to 14 % of the maximum rated output current could be enabled through the programming software, but the compliance with EN 61000-3-2 must be checked below 30 %.
 - The driver is intended for built-in use. The luminaire manufacturer is responsible to prevent direct exposure for example to sunlight, water, snow, ice.
 - Time to reach the set output current upon start-up is less than 4 s.
 - Programming of the driver via Prog+ and Prog- is only allowed without powering it via L/N.
 - For further details please consult the 2DIMLT2 application guide.
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Sales and Technical Support

Sales and Technical Support www.osram.com

Product family datasheet

Ecodesign regulation information:

Intended for use with LED modules.

The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.