

OTi DALI 50/220-240/1A4 LT2 FAN

OPTOTRONIC Intelligent – DALI LT2 | Compact constant current LED driver – Dimmable



Product family features

- Supply voltage: 220...240 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Line voltage: 198...264 V
- Safety according to EN 61347-1, 61347-2-3, 61347-2-13, 62384
- RI suppression: to EN 55015/CISPR 15
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- Lifetime: up to 100,000 h
- Type of protection: IP20
- Independent connection via through-looping (except OTi DALI 15)

Product family benefits

- Versatile DALI window driver due to flexible output characteristic
- Very high efficiency
- Protection of the system thanks to thermal management and Smart Control
- High-quality dimming of 1...100 % by amplitude dimming



Areas of application

- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
 - Suitable for use in luminaires with flexible current setting (DALI, CLO, LEDset)
 - Suitable for indoor SELV installations
 - Suitable for luminaires of protection classes I and II
 - Suitable for downlights, spotlights and LED panels
 - Installation via Cable Clamp Kit possible (depending on version of product)
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Versatile scope of application due to OSRAM DALI Technology:

- Easy to use in corridors and restrooms because of three-level Corridor function
- Touch DIM® application: easy to control via pushbutton or sensor
- Energy efficient Touch DIM® operation due to automatic switch-off at sufficient residual light
- Suitable for emergency Installations (acc. to EN 60598-2-22 and IEC 61347-2-13, appendix J) thanks to DC detection (0 Hz, pulsating DC), on/off switchable
- Feedback of power consumption and operating hours (Fit for SMART GRID)
- Suitable for buildings according to EPBD/BREEAM/LEED due to automatic Constant Lumen Output setting

Technical data

Electrical data

Max. ECG no. on circuit breaker 10 A (B)	12
Max. ECG no. on circuit breaker 16 A (B)	20
Maximum output power	55 W
Nominal output current	600...1400 mA ¹⁾
Nominal output power	55 W ²⁾
Nominal output voltage	15...54 V ³⁾
Nominal input voltage	220...240 V
Input voltage AC	198...264 V ⁴⁾
Input voltage DC	176...276 V
Device power loss	7.5 W
Efficiency in full-load	91 % ⁵⁾
Galvanic isolation DALI/mains	Basic
Galvanic isolation DALI/output	SELV
Galvanic isolation primary/secondary	SELV
Inrush current	30 A ⁶⁾
Networked standby power	≤0.15 W ⁵⁾
Power factor λ	0.81C...0.97
Mains frequency	0/50/60 Hz
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV ⁷⁾
U-OUT (working voltage)	60 V
Current set	DALI / LEDset2
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 2 % ⁸⁾
Protective conductor current	not relevant
Total harmonic distortion	< 10 % ⁹⁾
Default output current	1050 mA ¹⁰⁾

1) ±5%

2) Partial load 22...55 W

3) Maximum 60 V

4) Permitted voltage range

5) at 230 V, 50 Hz

6) $t_{width} = 200 \mu s$ (measured at 50 % I_{peak})

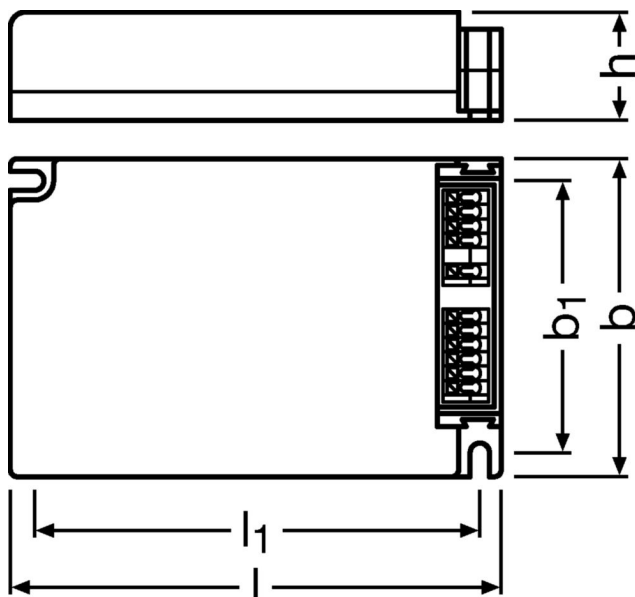
7) Functional Earth

8) Ripple average at 100 Hz

9) At full load, 220...240 V, 50 Hz / see graphs

10) LEDset deactivated

Dimensions & weight



Product weight	180.00 g
Length	110.0 mm
Height	25.0 mm
Width	75.0 mm
Cable cross-section, input side	0.2... 1.5 mm ^{2 1)}
Cable cross-section, output side	0.2... 1.5 mm ^{2 1)}
Cable/wire length, output side	2000 mm
Mounting hole spacing, length	99.0 mm
Mounting hole spacing, width	64.0 mm
Wire preparation length, input side	8.0...9.0 mm
Wire preparation length, output side	8.0...9.0 mm

1) Solid or flexible leads

Colors & materials

Casing material	Plastic
Product color	White

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Max.housing temperature in case of fault	110 °C
Maximum temperature at tc test point	80 °C ¹⁾
Permitted rel. humidity during operation	5...85 % ²⁾
Temperature range at storage	-25...85 °C

1) Maximum at the Tc-point

2) Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h / 100000 h ¹⁾
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1) $T_c = 80^\circ\text{C}$, 0.2% / 1,000 h failure rate / $T_c = 70^\circ\text{C}$, 0.1% / 1,000 h failure rate

Capabilities

Max. cable length to lamp/LED module	2.0 m ¹⁾
Number of channels	1
Dimmable	Yes
Dimming interface	DALI-2 / Touch DIM / Touch DIM Sensor
Dimming method	Amplitude Modulation
Dimming range	1...100 %
Overload protection	Automatic reversible
Overheating protection	Automatic reversible
Short-circuit protection	Automatic reversible
Suitable for through-wiring	Yes with optional cable clamp
Suitable for emergency lighting	Yes
Suitable for fixtures with prot. class	I / II
Type of connection, output side	Push terminal
Constant lumen function	Programmable
No-load proof	Yes
Programming interface	DALI, LEDset

1) Output wires must be routed as close as possible to each other

Programmable features

Dim to Dark	No
Configuration Lock	No
Corridor Functionality	Yes
DALI Settings	Yes
DALI-2 Luminaire Data	Yes ¹⁾
Driver Guard	No
Emergency Mode	Yes
Soft Switch Off	Yes
Tuning Factor	No
TouchDIM + Sensor	Yes

1) Acc. DALI part 251

Certificates & standards

Type of protection	IP20
Standards	Acc. to EN 61347-1 / Acc. to EN 61347-2-13 / Acc. to EN 55015 / Acc. to EN 61547 / Acc. to EN 61000-3-2 / Acc. to EN 62384 / Acc. to EN 62386 / Acc. to IEC 62386-101:Ed2 / Acc. to IEC 62386-102:Ed2 / Acc. to IEC 62386-207:Ed1
Approval marks – approval	ENEC 10 / VDE / EMC / EL / CE / DALI-2

Logistical data

Commodity code	85044083900
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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.

Download Data

File		
Certificates	PDF	▶ OT ENEC 40038447 270224
Certificates	PDF	▶ EATON(CEAG)-Conformity declaration AB42878_OTi_DALI_50_220-240_1A4_LT2_FAN
Certificates	PDF	▶ INOTEC- Conformity declaration AB42878_OTi_DALI_50_220- 240_1A4_LT2_FAN
CAD data 3-dim	Compressed	▶ 491394_OTi DALI 50 LT2 FAN STEP 61119
CAD data PDF	PDF	▶ 491393_OTi DALI 50 LT2 FAN CADPDF 61119
CAD data PDF	Compressed	▶ 491395_OTi DALI 50 LT2 FAN IGS 61119
Mandatory Publications	PDF	▶ OTi DALI LT2 UK DoC 4281294 02 200923
Mandatory Publications	PDF	▶ OTi DALI LT2 CE 3365628 14 200923
User instruction	PDF	▶ OPTOTRONIC LED Power Supply

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899488182	OTi DALI 50/220-240/1A4 LT2 FAN	Shipping carton box 20 Pieces	389 x 234 x 72 mm	6.55 dm ³	518.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit

Data privacy

This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on www.myosram.com and downloading the Tuner4TRONIC software from the Internet. The Tuner4TRONIC software enables users to access and view the operational data of a luminaire or driver via the corresponding programming interfaces. A password key (Config Lock) must be set up in the driver via the Tuner4TRONIC software in order to control which users can access and view operational data. Follow the instructions for password setup. To grant an external person or company rights to access or view operational data, you can assign password keys. In this case, however, you are responsible for ensuring that the third party concerned takes notice of the information described here.

However, OSRAM can read out operating data from devices for maintenance and service purposes even when a password key has been assigned. In individual cases, OSRAM will also use its access rights in order to optimize or improve driver hardware and driver functions. In accordance with data privacy principles, any user of operating data (luminaire manufacturers, third parties with access rights) must ensure that personal data (e.g. name, address, location IDs) are only merged with the prior written consent of the person (end user) concerned. The respective user of the operating data is responsible for providing evidence of consent.

Accessories Optional

Product description	Accessory name	Accessory code
OTi DALI 50/220-240/1A4 LT2 FAN	OT CABLE CLAMP A-STYLE	▶ 4052899089570
OTi DALI 50/220-240/1A4 LT2 FAN	OT CABLE CLAMP A-STYLE	▶ 4050732499425
OTi DALI 50/220-240/1A4 LT2 FAN	OT CABLE CLAMP A-STYLE TL	▶ 4052899325982

Disclaimer

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