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OTi DALI 10/220-240/700 NFC

OPTOTRONIC Intelligent - DALI NFC S | Compact constant current LED driver - Dimmable



Product family features

Supply voltage: 220...240 VLine frequency: 0 Hz, 50...60 Hz

- Line voltage: 198...264 V

According to EN 61347-1, 61347-2-13, 62384
RI suppression: to EN 55015/CISPR 15
Immunity according to EN 61547

- Type of protection: IP20

Product family benefits

- Versatile DALI window driver due to flexible output characteristic
- Locking and unlocking of luminaire/driver data
- Easy and fast output current setting via NFC
- Very high efficiency
- High-quality dimming of 1...100 % by amplitude dimming
- DALI-2 certified incl. Parts 251, 252, 253



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Areas of application

- Suitable for downlights, spotlights and LED panels
- Suitable for use in luminaires with flexible current setting
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II

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Technical data

Electrical data

Device power loss	3.5 W
Nominal output voltage	2.545 V ¹⁾
Input voltage DC	176276 V
Nominal output current	150700 mA ²⁾
Inrush current	< 5 A ³⁾
Max. ECG no. on circuit breaker 10 A (B)	80
Max. ECG no. on circuit breaker 16 A (B)	130
Nominal output power	10 W ⁴⁾
Input voltage AC	198264 V ⁵⁾
Power factor λ	0.49C0.97 ⁶⁾
U-OUT (working voltage)	60 V
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
Mains frequency	0/50/60 Hz
Protective conductor current	not relevant
Nominal input voltage	220240 V
Total harmonic distortion	15 % ⁷⁾
Output current tolerance	±3 %
Maximum output power	10 W
Output ripple current (100 Hz)	< 2 % ⁸⁾
Current set	DALI / NFC
Networked standby power	≤0.15 W ⁹⁾

¹⁾ Maximum 60 V

^{2) ±3%}

³⁾ t width = 100 μs (measured at 50 % I peak)
4) Partial load 1.5...10 W

⁵⁾ Permitted voltage range

⁶⁾ Full load at 220...240 V_{AC}/50 Hz 7) At full load, 220...240 V, 50 Hz

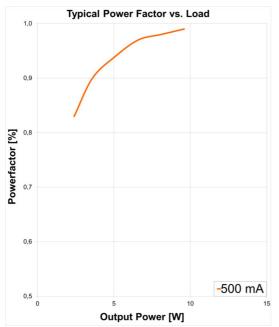
⁸⁾ Ripple average at 100 Hz

⁹⁾ at 230 V, 50 Hz

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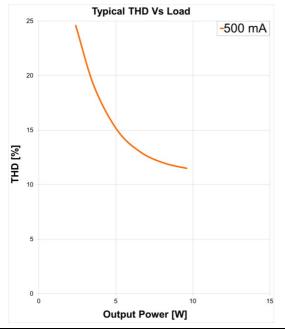
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Typical Power Factor v Load



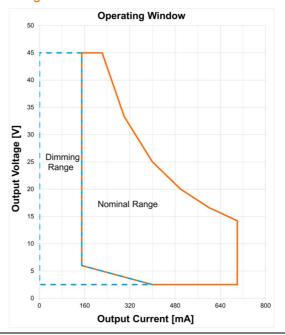
OTI DALI 10 NFC Typical Power Factor vs. Load

Typical THD v Load



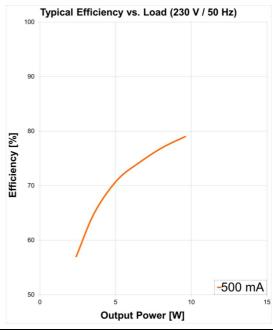
OTI DALI 10 NFC Typical THD Vs Load.tif

Operating Window



OTI DALI 10 NFC Operating Window

Typical Efficiency v Load 230 V 50 Hz



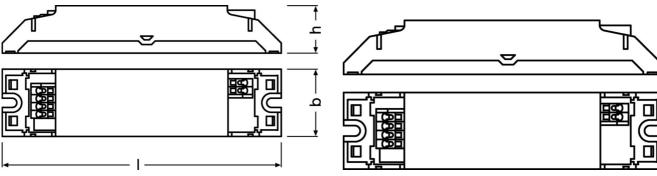
OTI DALI 10 NFC Typical Efficiency vs. Load (230 V 50 Hz)

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Dimensions & weight



Product weight	58.00 g
Mounting hole spacing, width	not relevant mm
Mounting hole spacing, length	115.0 mm
Wire preparation length, output side	78 mm
Wire preparation length, input side	78 mm
Cable/wire length, output side	2000 mm
Cable cross-section, output side	0.51.5 mm ² 1)
Cable cross-section, input side	0.51.5 mm ² 1)
Length	124.0 mm
Height	21.0 mm

¹⁾ Solid or flexible leads

Colors & materials

Casing material	Plastic

Temperatures & operating conditions

Max.housing temperature in case of fault	110 °C
Maximum temperature at tc test point	75 °C ¹⁾
Ambient temperature range	-20+50 °C
Temperature range at storage	-40+85 °C
Permitted rel. humidity during operation	585 % ²⁾

¹⁾ Maximum at the Tc-point

²⁾ Maximum 56 days/year at 85 %

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Lifespan

ECG lifetime	50000 h / 100000 h ¹⁾

1) $T_c = 75$ °C, 0.2% / 1,000 h failure rate / $T_c = 65$ °C, 0.1% / 1,000 h failure rate

Additional product data

Encapsulated	No
Predecessor EAN	4052899562639
Successor EAN	4062172250269

Capabilities

Max. cable length to lamp/LED module	2.0 m ¹⁾			
Dimming range	1100 %			
Dimming method	Amplitude Modulation			
Dimming interface	DALI-2			
Suitable for emergency lighting	Yes			
Short-circuit protection	Automatic reversible			
Overload protection	Automatic reversible			
Overheating protection	Automatic reversible			
Dimmable	Yes			
Suitable for fixtures with prot. class	1/11			
No-load proof	Yes			
Type of connection, input side	Push terminal			
Type of connection, output side	Push terminal			
Constant lumen function	Programmable			
Programming interface	DALI, NFC			

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

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Programmable features

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

¹⁾ Acc. DALI part 251

Certificates & standards

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 / CCC
Type of protection	IP20

Logistical data

Commodity code	85044083900

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Download Data

File		
Certificates	PDF	►OTI DALI 10 NFC EATON AM29184 210720
Certificates	PDF	►OTI DALI 10 NFC INOTEC AM29184 210720
Certificates	PDF	►OT ENEC 40038447 270224
CAD data 3-dim	Compressed	►OTI DALI 10 NFC CAD3PDF 140120
CAD data 2-dim	Compressed	►OTI DALI 10 NFC CAD2PDF 140120
CAD data	Compressed	►OTI DALI 10 NFC IGS 140120
CAD data	Compressed	►OTI DALI 10 NFC STEP 140120
Mandatory Publications	PDF	►OTI DALI NFC UK DoC 4291512 240221
Mandatory Publications	PDF	►OTI DALI NFC CE 3758701 161023
User instruction	PDF	►UI OTI DALI 10 NFC
User instruction	PDF	►OPTOTRONIC LED Power Supply

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.



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Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172143899	OTi DALI 10/220-240/700 NFC	Shipping carton box 20 Pieces	165 x 258 x 71 mm	3.02 dm³	256.00 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 10/220-240/700 NFC	PRH101 -USB	▶6977078996938
OTi DALI 10/220-240/700 NFC	CPR30 -USB	▶6977078996945
OTi DALI 10/220-240/700 NFC	OT CABLE CLAMP N-STYLE	4 062172046732
OTi DALI 10/220-240/700 NFC	OT CABLE CLAMP N-STYLE	► 4052899598461

Disclaimer

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