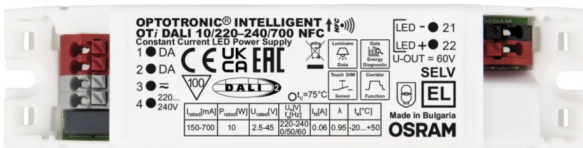# OTi DALI 10/220…240/700 NFC

OPTOTRONIC Intelligent – DALI NFC LP | 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
- Lifetime: up to 100,000 h
- Type of protection: IP20

Product family benefits

- Small housing for flexible luminaire designs
- Versatile DALI window driver due to flexible output characteristic
- 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
- Easy to use in corridors and restrooms because of three-level Corridor function
- Touch DIM application: easy to control via pushbutton or sensor
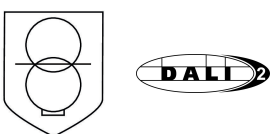
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support@inventronicsglobal.com

Mon Mar 25 15:00:09 CST 2024

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

Technical data

Electrical data

Nominal input voltage	220…240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198…264 V [1]
Input voltage DC	176…276 V
Current set	DALI / NFC
Total harmonic distortion	15 % [2]
Power factor λ	0.52C…0.95 [3]
Efficiency in full-load	82 % [4]
Device power loss	3.5 W
Protective conductor current	not relevant
Inrush current	< 5 A [5]
Max. ECG no. on circuit breaker 10 A (B)	80
Max. ECG no. on circuit breaker 16 A (B)	130
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	2.5…45 V [6]
U-OUT (working voltage)	60 V
Nominal output current	150…700 mA [7]
Default output current	350 mA
Output current tolerance	±3 %
Output current LEDset open	not relevant
Output current LEDset shorted	not relevant
Output ripple current (100 Hz)	< 2 % [8]
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	10 W [9]
Maximum output power	10 W [10]
Galvanic isolation DALI/mains	Basic
Galvanic isolation DALI/output	SELV
Networked standby power	≤0.15 W [4]

1) Permitted voltage range
2) At full load, 220…240 V, 50 Hz
3) Full load at 220…240 V_{AC}/50 Hz
4) at 230 V, 50 Hz
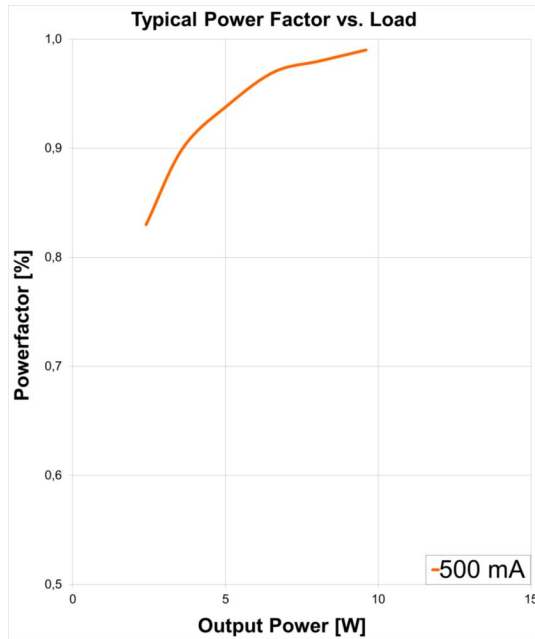5) t_{width} = 100 µs (measured at 50 % I_{peak})
6) Maximum 60 V
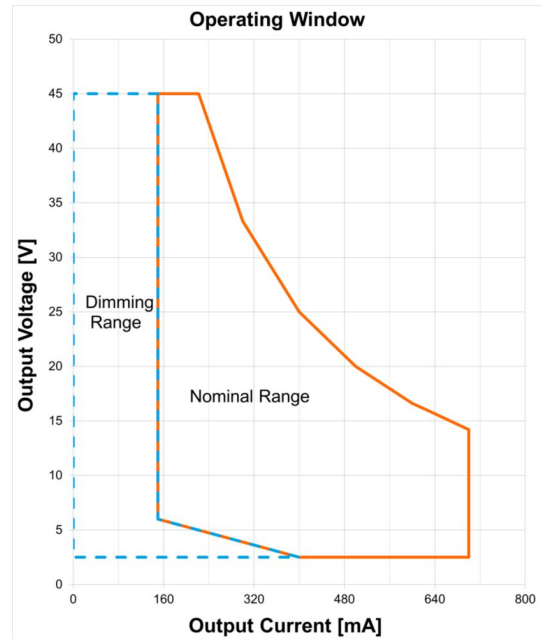7) ±3%
8) Ripple average at 100 Hz
9) Partial load 1.5...10 W
10) Partial load 1.5…10 W

Typical Power Factor v Load

Typical Power Factor vs. Load

OTI DALI 10 NFC Typical Power Factor vs. Load

Operating Window

Operating Window

OTI DALI 10 NFC Operating Window

Typical THD v Load
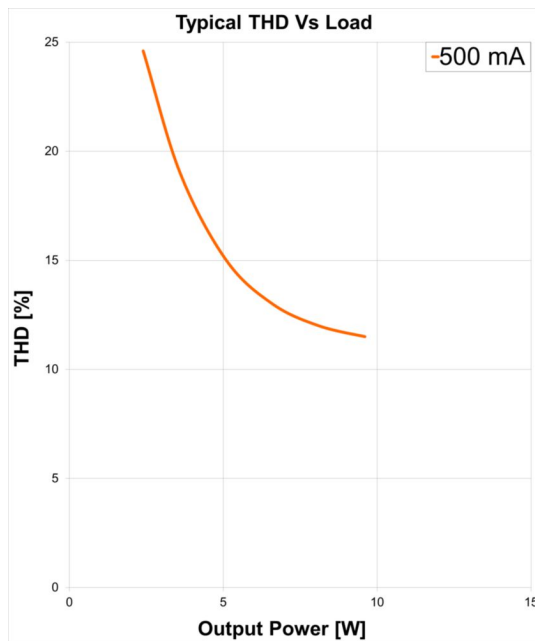
Typical THD Vs Load
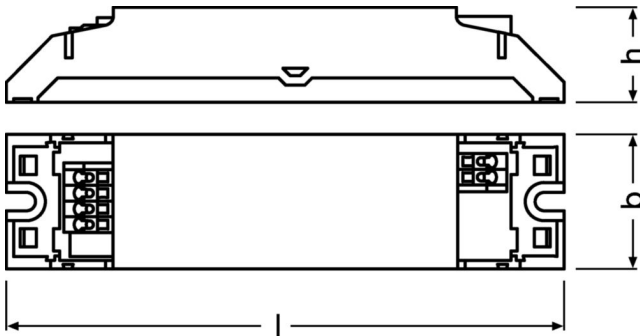

OTI DALI 10 NFC Typical THD Vs Load.tif

Typical Efficiency v Load 230 V 50 Hz

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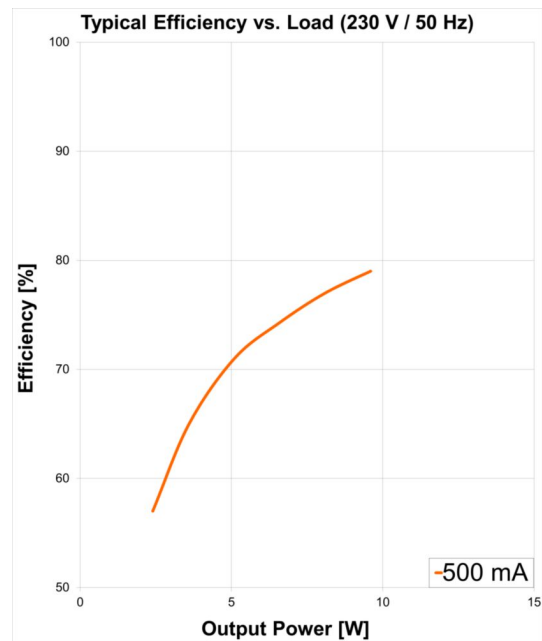
OTI DALI 10 NFC Typical Efficiency vs. Load (230 V 50 Hz)

Dimensions & weight

Length	124.0 mm
Width	31.0 mm
Height	21.0 mm
Mounting hole spacing, length	115.0 mm
Mounting hole spacing, width	not relevant mm
Cable cross-section, input side	0.5…1.5 mm² [1]
Cable cross-section, output side	0.5…1.5 mm² [1]
Wire preparation length, input side	7…8 mm
Wire preparation length, output side	7…8 mm
Product weight	58.00 g

1) Solid or flexible leads

Colors & materials

Casing material	Plastic
Product color	White

Temperatures & operating conditions

Ambient temperature range	-20…+50 °C
Maximum temperature at tc test point	75 °C [1]
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40…+85 °C
Permitted rel. humidity during operation	5…85 % [2]

1) Maximum at the Tc-point
2) Maximum 56 days/year at 85 %

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

Capabilities

Programming interface	DALI, NFC
Control interface	DALI
Dimmable	Yes
Dimming interface	DALI-2 / Touch DIM / Touch DIM Sensor
Dimming range	1…100 %
Dimming method	Amplitude Modulation
DALI-2 Diagnostic Data	Yes [1]
DALI-2 Energy Data	Yes [2]
Constant lumen function	Programmable
Max. cable length to lamp/LED module	2.0 m [3]
Suitable for fixtures with prot. class	I / II
Suitable for emergency lighting	Yes
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Suitable for through-wiring	No
Number of channels	1
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
Intended for no-load operation	No
No-load proof	Yes

1) Acc. DALI part 253
2) Acc. DALI part 252
3) Output wires must be routed as close as possible to each other

Programming

Programming device	DALI / NFC
Tuner4TRONIC	Yes
Tuner4TRONIC Field App	Yes

Programmable features

Emergency Mode	Yes
DALI Settings	Yes
DALI-2 Luminaire Data	Yes [1]
TouchDIM + Sensor	Yes
Corridor Functionality	Yes
Dim to Dark	Yes
Soft Switch Off	Yes
Tuning Factor	Yes
Configuration Lock	Yes
Driver Guard	Yes
Emergency Mode	Yes

1) Acc. DALI part 251

Certificates & standards

Approval marks – approval	ENEC 10 / VDE / EL / CE / UKCA / DALI-2 / CCC / RCM / EAC
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
Type of protection	IP20
Protection class	II

Logistical data

Commodity code	85044083900

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	24-03-2024
Primary Article Identifier	4062172250269
Declaration No. in SCIP database	In work

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Download Data

File		
Certificates	PDF	▶ OT ENEC 40038447 260623
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 CE 3758701 161023
Declarations of conformity	PDF	▶ OTI DALI NFC UK DoC 4291512 240221
User instruction	PDF	▶ OPTOTRONIC LED Power Supply OTi DALI 10 700 NFC

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.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172250269	OTi DALI 10/220…240/700 NFC	Shipping carton box 20 Pieces	260 x 116 x 83 mm	2.50 dm³	1250.00 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 theTuner4TRONIC 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.

Disclaimer

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

Accessories Optional

Product description	Accessory name	Accessory code
OTi DALI 10/220…240/700 NFC	PRH101 -USB	►4055462165152
OTi DALI 10/220…240/700 NFC	CPR30 -USB	►4055462165169
OTi DALI 10/220…240/700 NFC	OT CABLE CLAMP N-STYLE	►4062172046732
OTi DALI 10/220…240/700 NFC	OT CABLE CLAMP N-STYLE	►4052899598461

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