

OTi DALI 40/220...240/1A0 NFC LPI

OPTOTRONIC Intelligent – DALI NFC LP I | 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
- Integrated cable clamp for luminaire and independent installation

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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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	220240 V
Mains frequency	0,50,60 Hz
Input voltage AC	198264 V ¹⁾
Input voltage DC	176276 V
Total harmonic distortion	< 10 % ²⁾
Power factor λ	070C099
Efficiency in full-load	88 % 3)
Device power loss	-
Inrush current	20 A ⁴⁾
Max. ECG no. on circuit breaker 10 A (B)	35
Max. ECG no. on circuit breaker 16 A (B)	55
Surge capability (L/N-Ground)	2 KV
Surge capability (L-N)	1 KV
Nominal output voltage	1054 V ⁵⁾
U-OUT (working voltage)	60 V
Nominal output current	3501050 mA ⁶⁾
Default output current	700 mA
Galvanic isolation primary/secondary	SELV
Galvanic isolation DALI/mains	Basic
Galvanic isolation DALI/output	SELV
Current set	DALI / NFC
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 3 % ⁷)
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	38 W ⁸⁾
Maximum output power	38 W ⁸⁾
Networked standby power	0.13 W ³)

¹⁾ Permitted voltage range

²⁾ At full load, 220...240 V, 50 Hz / see graphs

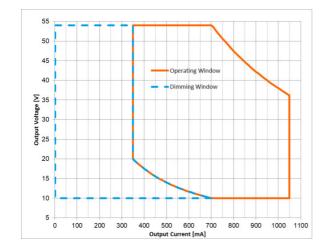
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<sup>3)</sup> at 230 V, 50 Hz
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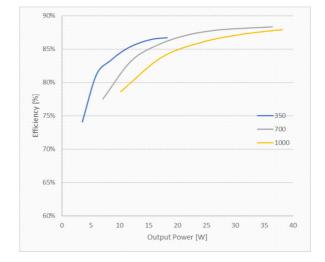
⁴⁾ t = 25 µs (measured at 50 % I peak) width ⁵) Maximum 60 V

6) _{±3%}

⁷⁾ Ripple average at 100 Hz

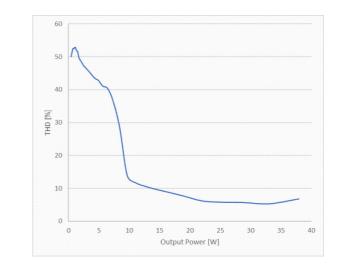
⁸⁾ Partial load 7...38 W





OTI DALI 40 NFC LP Operating window

OTI DALI 40 NFC LP Typical Efficiency vs. Load (230 V 50 Hz)



OTI DALI 40 NFC LP Typical Power Factor vs. Load

15

20

Output Power [W]

25

-350

35

30

40

OTI DALI 40 NFC LP Typical THD Vs Load

1

0.9

0.8

Factor

Power |

0.5

0.4

0.3

0

5

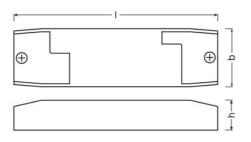
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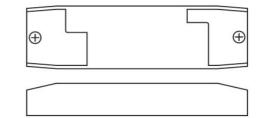
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OTi DALI 40/220...240/1A0 NFC LPI

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Dimensions & weight





Mounting hole spacing, length	108.0 mm
Product weight	16000 g
Cable cross-section, input side	0.751.5 mm ² ¹⁾
Cable cross-section, output side	0.51.5 mm ² ¹⁾
Wire preparation length, input side	78 mm
Wire preparation length, output side	78 mm
Length	1500 mm
Width	425 mm
Height	220 mm

¹⁾ Solid or flexible leads

Colors & materials

Temperatures & operating conditions

Ambient temperature range	-20+45 °C
Maximum temperature at tc test point	85 °C ¹⁾
Max.housing temperature in case of fault	110 °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 %

Lifespan

ECG lifetime

50000 / 100000 h ¹⁾

¹⁾ $T_c = 85^{\circ}C$, 0.2% / 1,000 h failure rate / $T_c = 75^{\circ}C$, 0.1% / 1,000 h failure rate

Additional product data

Encapsulated	No
Capabilities	
Dimmable	Yes
Dimming interface	DALI-2 / Touch DIM / Touch DIM Sensor
Dimming range	1100 %
Dimming method	Amplitude Modulation
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible

Yes

No 2.0 m ¹⁾

1/11

No Yes

Push terminal

Push terminal

Programmable DALI, NFC

DALI-2

Yes²⁾

Yes 3)

-

1

DALI-2 Energy Data

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

²⁾ Acc. DALI part 252

No-load proof

Intended for no-load operation

Type of connection, input side

Type of connection, output side

Suitable for emergency lighting

Detection angle (Light sensor)

Suitable for through-wiring

Constant lumen function

Programming interface Control interface

Number of channels

DALI-2 Diagnostic Data

Max. cable length to lamp/LED module Suitable for fixtures with prot. class

³⁾ Acc. DALI part 253

Programming

Box programming	Yes
Tuner4TRONIC	Yes
Tuner4TRONIC Field App	Yes
Programming device	DALI / NFC

Programmable features

Operating Current	Yes
Constant Lumen	Yes
Lamp Operating Time	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	Yes
Corridor Functionality	Yes
ОЕМ Кеу	No

¹⁾ Acc. DALI part 251

Certificates & standards

Approval marks – approval	CE / UKCA / EL / DALI-2 / 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
Protection class	П
Type of protection	IP20

Logistical data

Commodity code	85044083900

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)

Date of Declaration	21-04-2023
Primary Article Identifier	4062172227773
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	cd091ef9-7189-4515-b2a4-8596ba3036e4

Download Data

	File
7	User instruction OPTOTRONIC LED Power Supply

7	Certificates OT ENEC 40038447 260623
Q	CAD data OTI DALI NFC LP I IGS 240921
ą	CAD data OTI DALI NFC LP I STEP 240921
ą	CAD Data 2-dim OTI DALI NFC LP I CAD2PDF 240921
ą	CAD data 3-dim OTI DALI NFC LP I CAD3PDF 240921

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
4062172227773	OTi DALI 40/220240/1A0 NFC LPI	Shipping carton box 20	314 mm x 122 mm x 107 mm	4.10 dm ³	3321.00 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

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This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on www.myosram.com and downloading the Tuner 4TRONIC software from the Internet. The Tuner 4TRONIC 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.