

OTi DALI 40/220-240/1A0 NFC T-W (NEW)

OPTOTRONIC Intelligent – DALI NFC Track | 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

- High quality of light thanks to low output ripple current
- Short housing for minimum distance between spotlights
- Versatile DALI window driver due to flexible output characteristic
- Easy and fast output current setting via NFC
- High-quality dimming of 1...100 % by amplitude dimming
- DALI-2 certified incl. Parts 251, 252, 253
- Touch DIM application: easy to control via pushbutton or sensor
- SELV system



Areas of application

- Track lights
- Shops and hospitality: retail, hotels, restaurants

Technical data

Electrical data

Max. ECG no. on circuit breaker 10 A (B)	47
Max. ECG no. on circuit breaker 16 A (B)	76
Maximum output power	40 W ¹⁾
Nominal output current	150...1050 mA ²⁾
Nominal output power	2.7...40 W
Nominal output voltage	18...42 V ³⁾
Nominal input voltage	220...240 V
Input voltage AC	198...264 V ⁴⁾
Input voltage DC	176...276 V
Efficiency in full-load	86 % ⁵⁾
Galvanic isolation DALI/mains	Basic
Galvanic isolation DALI/output	SELV
Galvanic isolation primary/secondary	SELV
Inrush current	36 A ⁶⁾
Networked standby power	≤0.20 W ⁵⁾
Power factor λ	0.30C...0.95 ⁷⁾
Mains frequency	0/50/60 Hz
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
U-OUT (working voltage)	60 V
Current set	DALI / NFC
Maximum TX power	not relevant dBm
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 % ⁸⁾
Protective conductor current	not relevant
Radio frequency	not relevant
Total harmonic distortion	< 10 % ⁹⁾
Wireless protocol	not relevant
Wireless range	not relevant
Default output current	500 mA

1) Partial load 2.7...40 W

2) ±5%

3) Maximum 60 V

4) Permitted voltage range

5) at 230 V, 50 Hz

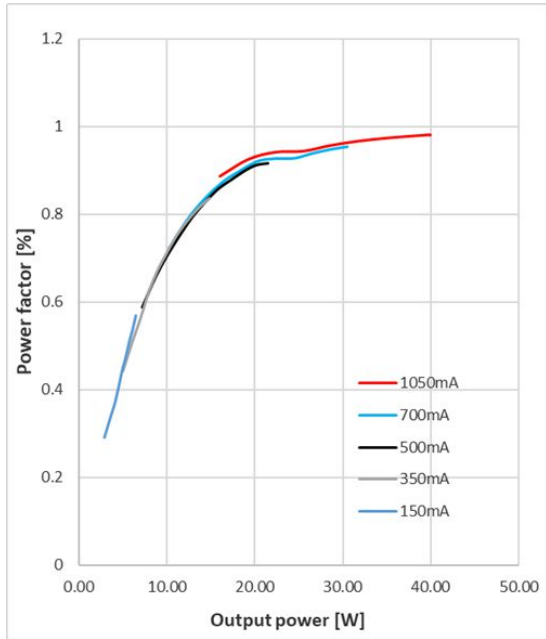
6) $t_{width} = 7 \mu s$ (measured at 50 % I_{peak})

7) Full load at 230 V / 50 Hz

8) <3% for 350-1050mA

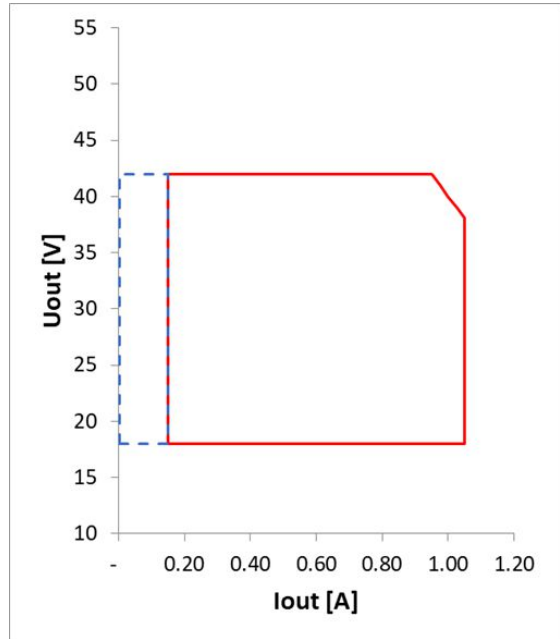
9) At full load, 220...240 V, 50 Hz / see graphs

Typical Power Factor v Load



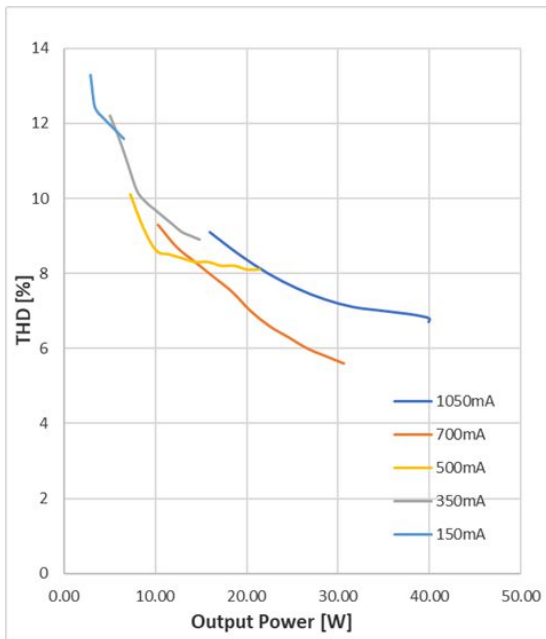
OT 40 Track Power factor

Operating Window



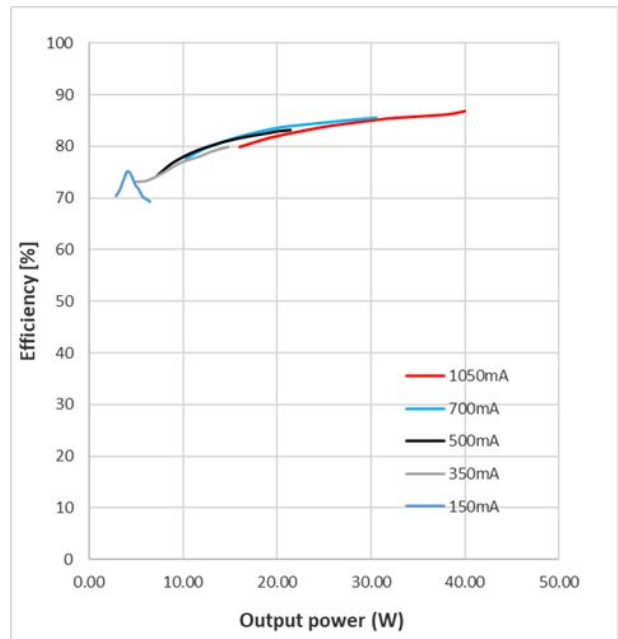
OT 40 Track Operating window

Typical THD v Load



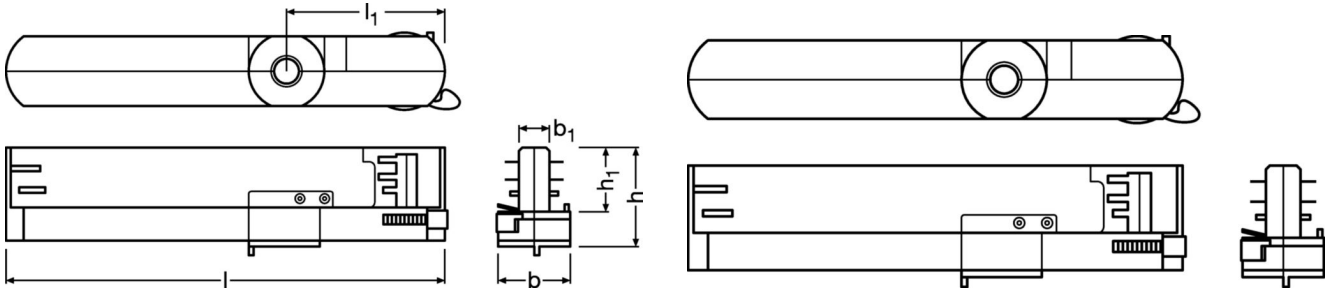
OT 40 Track THD

Typical Efficiency v Load 230 V 50 Hz



OT 40 Track Efficiency vs Load 230V 50Hz

Dimensions & weight



Product weight	154.00 g
Length	205.0 mm
Height	44.0 mm
Width	31.0 mm
Cable cross-section, input side	not relevant
Cable cross-section, output side	0.75...1.5 mm ² 1)
Cable/wire length, output side	2000 mm
Mounting hole spacing, length	not relevant mm
Mounting hole spacing, width	not relevant mm
Wire preparation length, input side	not relevant
Wire preparation length, output side	8.0...9.0 mm

1) Solid or flexible leads

Colors & materials

Casing material	Plastic
Product color	WHITE RAL 9010

Temperatures & operating conditions

Ambient temperature range	-20...+35 °C
Max.housing temperature in case of fault	110 °C
Maximum temperature at tc test point	90 °C 1)
Permitted rel. humidity during operation	5...85 % 2)
Temperature range at storage	-40...+85 °C

1) Measured on tc point indicated of the product label.

2) Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h / 100000 h ¹⁾
---------------------	----------------------------------

1) T_c = 90°C - 0.2% / 1,000 h failure rate / T_c = 80°C, 0.1% / 1,000 h failure rate

Additional product data

Encapsulated	No
---------------------	----

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	No
Suitable for emergency lighting	No
Suitable for fixtures with prot. class	not relevant
Type of connection, output side	Push terminal
Constant lumen function	Programmable
No-load proof	Yes
Programming interface	DALI, NFC

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

Programming

Box programming	Yes
-----------------	-----

Programmable features

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

1) Acc. DALI part 251

Certificates & standards

Type of protection	IP20
Standards	Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 / Acc. to IEC 62386 / Acc. to IEC 61000-3-2 / Acc. to IEC 61000-3-3 / Acc. to IEC 61547 / Acc. to CISPR 15 / Acc. to ETSI EN 300 330 / Acc. to ETSI EN 301 489 - 1 / Acc. to ETSI EN 301 489-3
Approval marks – approval	CE / UKCA / DALI-2 / CQC / RCM

Logistical data

Commodity code	85044083900
----------------	-------------

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	04-06-2024
Primary Article Identifier	4062172310529
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	

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		
CAD data 3-dim	Compressed	▶ OTI DALI 40 220 240 1A0 NFC CAD 3D 20221208
Mandatory Publications	PDF	▶ OTi DALI NFC T CE 4452714 180823

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172310529	OTi DALI 40/220-240/1A0 NFC T-W	Shipping carton box 20 Pieces	266 x 225 x 234 mm	14.00 dm ³	175.80 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 40/220-240/1A0 NFC T-W	Track Joint	▶ 4062172228183
OTi DALI 40/220-240/1A0 NFC T-W	WHITE RING	▶ 4062172138550
OTi DALI 40/220-240/1A0 NFC T-W	PRH101 -USB	▶ 6977078996938
OTi DALI 40/220-240/1A0 NFC T-W	CPR30 -USB	▶ 6977078996945

Disclaimer

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