OTi DALI 40/220...240/1A0 NFC T-B

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

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
Total harmonic distortion	< 10 % [2)]
Power factor λ	0.30C…0.95 [3)]
Efficiency in full-load	86 % [4)]
Inrush current	36 A [5)]
Max. ECG no. on circuit breaker 10 A (B)	47
Max. ECG no. on circuit breaker 16 A (B)	76
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	18…42 V [6)]
U-OUT (working voltage)	60 V
Nominal output current	150…1050 mA [7)]
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 % [8)]
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	2.7…40 W
Maximum output power	40 W [9)]
Galvanic isolation primary/secondary	SELV
Current set	DALI / NFC
Default output current	500 mA
Galvanic isolation DALI/mains	Basic
Galvanic isolation DALI/output	SELV
Networked standby power	≤0.20 W [4)]

1) Permitted voltage range

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

3) Full load at 230 V/50 Hz

4) at 230 V, 50 Hz

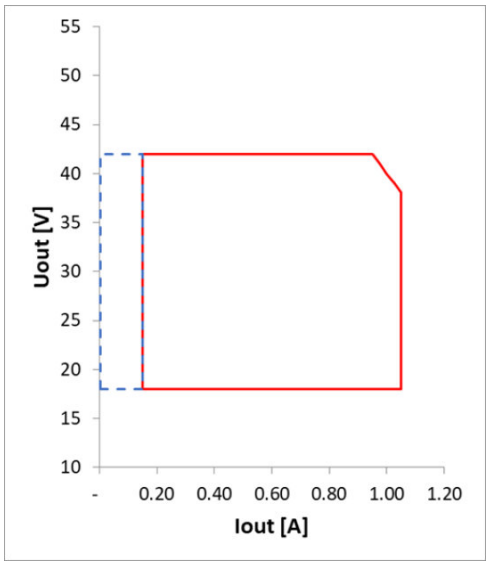
5) t_{width} = 7 µs (measured at 50 % I_{peak})

6) Maximum 60 V

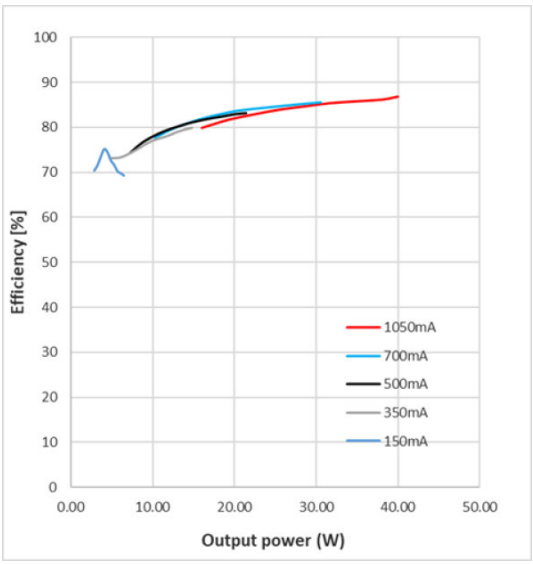
7) ±5%

8) <3% for 350-1050mA

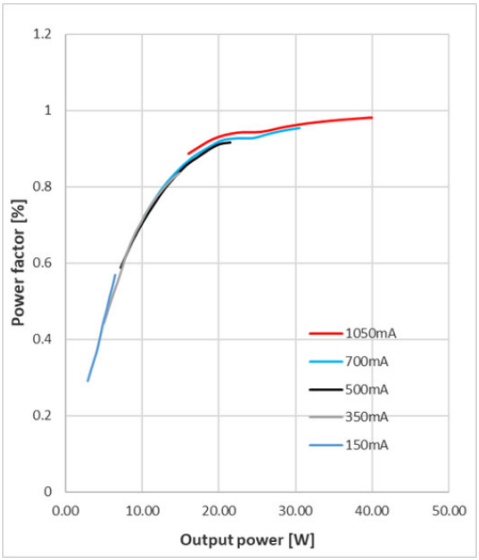
9) Partial load 2.7…40 W



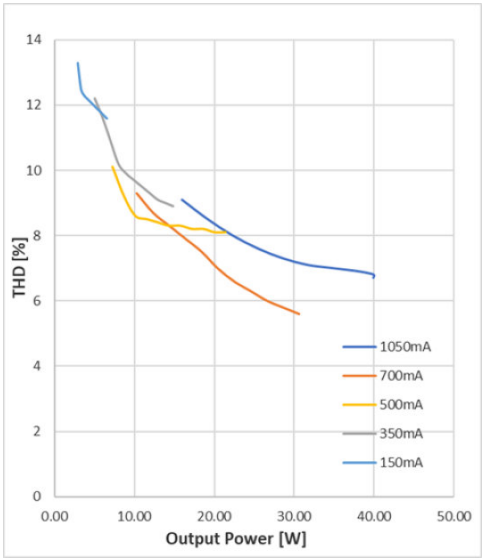
OT 40 Track Operating window



OT 40 Track Efficiency vs Load 230V 50Hz



OT 40 Track Power factor



OT 40 Track THD

Dimensions & weight

Product weight	154.00 g
Cable cross-section, output side	0.75…1.5 mm² [1]
Wire preparation length, output side	8.0…9.0 mm
Length	205.0 mm
Width	31.0 mm
Height	44.0 mm

[1] Solid or flexible leads

Colors & materials

Casing material	Plastic
Product color	BLACK RAL 9011

Temperatures & operating conditions

Ambient temperature range	-20…+35 °C
Maximum temperature at tc test point	90 °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] Measured on tc point indicated of the product label.

[2] Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 / 100000 h [1]

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

Additional product data

Encapsulated	No
Compatible track systems	GLOBAL / Stucchi / Unipro / Powergear [1]

[1] The compatibility may become invalid when the critical track dimension is modified by the brand owner in case of engineering change or optimization in the future

Capabilities

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

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

Programming

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

Programmable features

Constant Lumen	Yes
Lamp Operating Time	Yes
Driver Guard	Yes
Emergency Mode	No
Configuration Lock	Yes
Soft Switch Off	Yes
Dim to Dark	Yes
OEM Key	No

Certificates & standards

Approval marks – approval	CE / UKCA / DALI-2 / CQC / RCM
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
Protection class	II
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	21-08-2023
Primary Article Identifier	4062172310475
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	01d5b3db-b54e-4066-b8fe-29a3f63508d3

Download Data

	File
	CAD data 3-dim OTI DALI 40 220 240 1A0 NFC CAD 3D 20221208

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
4062172310475	OTi DALI 40/220...240/1A0 NFC T-B	Shipping carton box 20	266 mm x 225 mm x 234 mm	14.00 dm^3	3516.00 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.

Accessories Optional

Product description	Accessory name	Accessory code
OTi DALI 40/220...240/1A0 NFC T-B	Track Joint	4062172228183
OTi DALI 40/220...240/1A0 NFC T-B	BLACK RING	4062172138567

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.