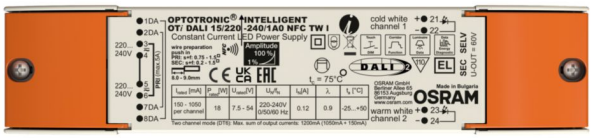
OTi DALI 15/220-240/1A0 NFC TW I *(NEW)*

OPTOTRONIC Intelligent – DALI NFC TW | Compact constant current LED driver – Dimmable



Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Supply voltage: 220…240 V
- Usable as DT6 (2-channel) or DT8 (Tunable White) driver
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)
- SELV driver

Product family benefits

- Control of standard white or Tunable White light acc. DALI device type 8 (DT8)
- TouchDIM® Tunable White integrated for use without additional LMS
- Fully programmable via T4T software (NFC, DALI Interface)
- Lifetime: up to 100,000 h (temperature at T_c = 65 °C, max. 10 % failure rate)
- High-quality dimming of 1…100 % by amplitude dimming
- High quality of light thanks to <1% output ripple current
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

Areas of application

- Classrooms
- Conference rooms
- Daylight simulation for windowless rooms
- For Tunable White as well as for 2-channel use (e.g. direct/indirect lighting)
- Healthcare and hospitality with HCL functionality
- Independent mounting via Cable Clamp Kit possible
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Office with high end HCL functionality
- Suitable for indoor and outdoor SELV installations

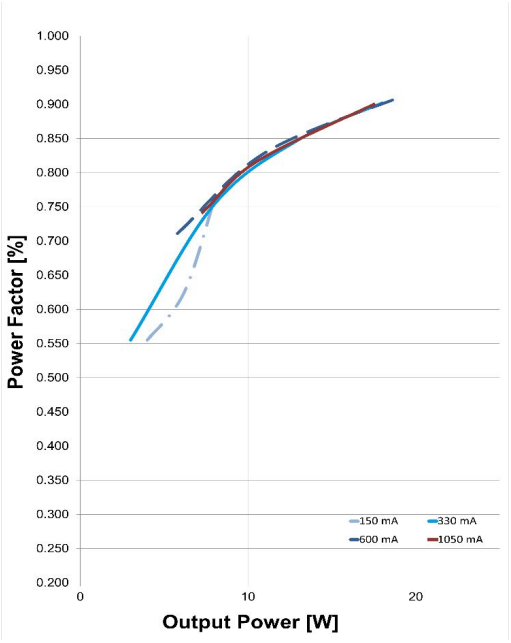
Technical data

Electrical data

Max. ECG no. on circuit breaker 10 A (B)	27
Max. ECG no. on circuit breaker 16 A (B)	43
Maximum output power	18 W
Nominal output current	150…1050 mA [1)]
Nominal output power	18 W [2)]
Nominal output voltage	7.5…54 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	85 % [5)]
Galvanic isolation DALI/mains	Basic
Galvanic isolation DALI/output	SELV
Galvanic isolation primary/secondary	SELV
Inrush current	17 A [6)]
Networked standby power	<0.20 W [5)]
Power factor λ	0.47C…0.92C
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
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 2 % [7)]
Total harmonic distortion	< 15 % [8)]
Default output current	300 mA

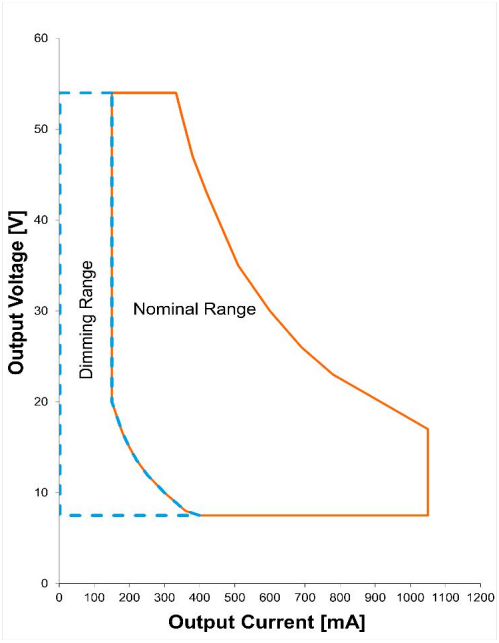
1) ±3%
2) Partial load 3…18 W
3) Maximum 60 V
4) Permitted voltage range
5) at 230 V, 50 Hz
6) t_{width} = 180 µs (measured at 50 % I_{peak})
7) Ripple average at 100 Hz
8) At full load, 220…240 V, 50 Hz / see graphs

Typical Power Factor v Load



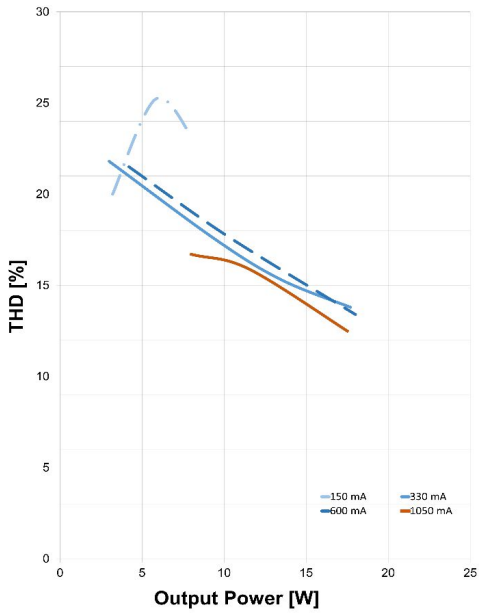
OTI DALI 15 NFC TW I Typical Power Factor vs. Load

Operating Window



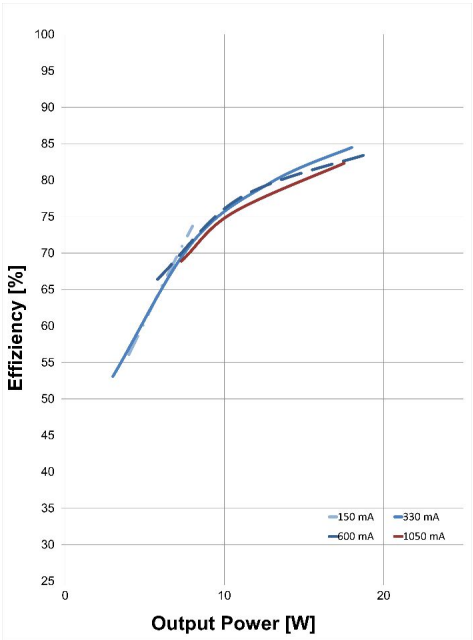
OTI DALI 15 NFC TW I Operating Window

Typical THD v Load



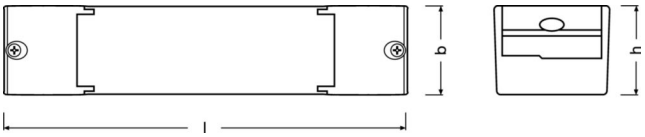
OTI DALI 15 NFC TW I Typical THD Vs Load

Typical Efficiency v Load 230 V 50 Hz



OTI DALI 15 NFC TW I Typical Efficiency vs. Load (230 V / 50 Hz)

Dimensions & weight



Product weight	190.00 g
Length	203.0 mm
Height	34.0 mm
Width	44.5 mm
Cable cross-section, input side	0.75…1.5 mm² [1]
Cable cross-section, output side	0.2…1.5 mm² [1]
Cable/wire length, output side	2000 mm
Mounting hole spacing, length	167.8 mm
Wire preparation length, input side	8.0…9.0 mm
Wire preparation length, output side	8.0…9.0 mm

1) Solid or flexible leads

Colors & materials

Casing material	Plastic
Product color	White

Temperatures & operating conditions

Ambient temperature range	-25…+50 °C
Max.housing temperature in case of fault	110 °C
Maximum temperature at tc test point	75 °C [1]
Permitted rel. humidity during operation	5…85 % [2]
Temperature range at storage	-40…+85 °C

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

Max. cable length to lamp/LED module	2.0 m [1)]
Number of channels	2 [2)]
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	Yes
Suitable for emergency lighting	Yes
Suitable for fixtures with prot. class	I / II
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Constant lumen function	Programmable
Intended for no-load operation	No
No-load proof	Yes
Programming interface	DALI, NFC

1) Output wires must be routed as close as possible to each other
2) Default operation mode: tunable white DT8; optional operation mode: 2-channel DT6

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	Yes
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 EN 55015 / 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 / EAC / DALI-2 / EL

Logistical data

Commodity code	85044083900

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	30-05-2024
Primary Article Identifier	4062172211543
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.

Additional product information

- Electrical connections between the two output channels are not allowed.

Download Data

File		
Certificates	PDF	►OT ENEC 40038447 270224
CAD data 3-dim	Compressed	►OTI DALI 15 25 NFC TW I CAD3PDF 040221
CAD data 2-dim	Compressed	►OTI DALI 15 25 NFC TW I CAD2PDF 040221
CAD data	Compressed	►OTI DALI 15 25 NFC TW I IGS 040221
CAD data	Compressed	►OTI DALI 15 25 NFC TW I STEP 040221
Mandatory Publications	PDF	►OTi DALI NFC TW I CE 4335714 180823
Mandatory Publications	PDF	►OTi DALI NFC TW I UK DoC 4335715 161221
User instruction	PDF	►OPTOTRONIC LED Power Supply

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172211543	OTi DALI 15/220-240/1A0 NFC TW I	Shipping carton box 20 Pieces	418 x 185 x 108 mm	8.35 dm³	200.70 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.

Accessories Optional

Product description	Accessory name	Accessory code
OTi DALI 15/220-240/1A0 NFC TW I	PRH101 -USB	▸6977078996938
OTi DALI 15/220-240/1A0 NFC TW I	CPR30 -USB	▸6977078996945

Disclaimer

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