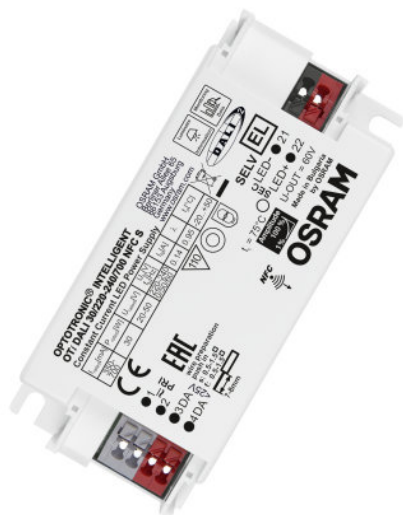


OPTOTRONIC Intelligent – DALI NFC S

Compact constant current LED driver – Dimmable



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

Product family benefits

- Versatile DALI window driver due to flexible output characteristic
- Locking and unlocking of luminaire/driver data
- 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



Product family datasheet

Product family features

- Supply voltage: 220...240 V
- Line frequency: 0 Hz, 50...60 Hz
- Line voltage: 198...264 V
- According to EN 61347-1, 61347-2-13, 62384
- RI suppression: to EN 55015/CISPR 15
- Immunity according to EN 61547
- Type of protection: IP20

Product family datasheet

Technical data

Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Input voltage DC	Total harmonic distortion	Power factor λ
OTi DALI 10/220...240/700 NFC	220...240 V	0/50/60 Hz	198...264 V ¹⁾	176...276 V	15 % ²⁾	> 0.95 ³⁾
Product description	Efficiency in full-load	Device power loss	Networked standby power [GMS]	Inrush current		
OTi DALI 10/220...240/700 NFC	82 % ⁴⁾	3.5 W	≤0.15 W ⁴⁾	< 5 A ⁵⁾		
Product description	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)	Surge capability (L-N)	
OTi DALI 10/220...240/700 NFC	80	130	-	2 kV	1 kV	
Product description	Nominal output voltage	U-OUT (working voltage)	Nominal output current	Default output current	Output current tolerance	
OTi DALI 10/220...240/700 NFC	2.5...45 V ⁶⁾	60 V	150...700 mA ⁷⁾	350 mA	±3 %	
Product description	Output ripple current (100 Hz)	Output PSTLM	Output SVM	Nominal output power		
OTi DALI 10/220...240/700 NFC	< 2 % ⁸⁾	≤1	≤0.4	10 W ⁹⁾		
Product description	Maximum output power	Current set	Galvanic isolation primary/secondary			
OTi DALI 10/220...240/700 NFC	10 W	DALI / NFC	SELV			
Product description	Galvanic isolation DALI/mains	Galvanic isolation DALI/output				
OTi DALI 10/220...240/700 NFC	Basic	SELV				

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⁾ $t_{width} = 100 \mu s$ (measured at 50 % I_{peak})

⁶⁾ Maximum 60 V

⁷⁾ ±3%

⁸⁾ Ripple average at 100 Hz

⁹⁾ Partial load 1.5...10 W

Product family datasheet

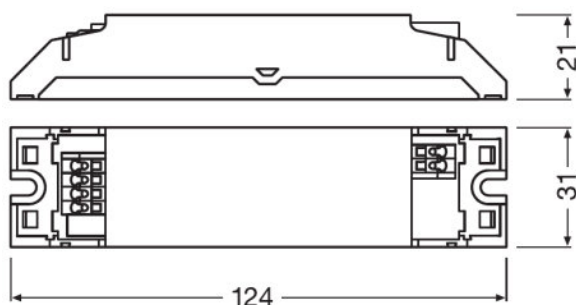
Dimensions & weight

Product description	Mounting hole spacing, length	Product weight	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side
OTi DALI 10/220...240/700 NFC	115.0 mm	58.00 g	0.5...1.5 mm ^{2 1)}	0.5...1.5 mm ^{2 1)}	7...8 mm

Product description	Wire preparation length, output side	Length	Width	Height
OTi DALI 10/220...240/700 NFC	7...8 mm	124.0 mm	31.0 mm	21.0 mm

¹⁾ Solid or flexible leads

Product line drawing



OTi DALI 10/220...240/700 NFC

Colors & materials

Product description	Casing material
OTi DALI 10/220...240/700 NFC	Plastic

Product family datasheet

Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Temperature range at storage
OTi DALI 10/220...240/700 NFC	-20...+50 °C	75 °C ¹⁾	110 °C	-40...+85 °C

Product description	Permitted rel. humidity during operation
OTi DALI 10/220...240/700 NFC	5...85 % ²⁾

¹⁾ Maximum at the T_c-point

²⁾ Maximum 56 days/year at 85 %

Lifespan

Product description	ECG lifetime
OTi DALI 10/220...240/700 NFC	50000 / 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

Product description	Encapsulated	Successor EAN	Predecessor EAN
OTi DALI 10/220...240/700 NFC	No	4062172250269	4052899562639

Capabilities

Product description	Dimmable	Dimming interface	Dimming range	Dimming method
OTi DALI 10/220...240/700 NFC	Yes	DALI-2	1...100 %	Amplitude Modulation

Product description	Overheating protection	Overload protection	Short-circuit protection	No-load proof
OTi DALI 10/220...240/700 NFC	Automatic reversible	Automatic reversible	Automatic reversible	Yes

Product description	Intended for no-load operation	Max. cable length to lamp/LED module	Suitable for fixtures with prot. class	Type of connection, input side
OTi DALI 10/220...240/700 NFC	No	2.0 m ¹⁾	I / II	Push terminal

Product description	Type of connection, output side	Programming interface	Control interface
OTi DALI 10/220...240/700 NFC	Push terminal	DALI, NFC	DALI

Product description	Number of channels	DALI-2 Energy Data	DALI-2 Diagnostic Data	Suitable for emergency lighting
OTi DALI 10/220...240/700 NFC	1	Yes ²⁾	Yes ³⁾	Yes

Product family datasheet

Product description	Constant lumen function
OTi DALI 10/220...240/700 NFC	Programmable

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

2) Acc. DALI part 252

3) Acc. DALI part 253

Programming

Product description	Programming device	Tuner4TRONIC Field App	Tuner4TRONIC
OTi DALI 10/220...240/700 NFC	DALI / NFC	Yes	Yes

Programmable features

Product description	Constant Lumen	Lamp Operating Time	Driver Guard
OTi DALI 10/220...240/700 NFC	Yes	Yes	Yes

Product description	DALI Settings	Emergency Mode	DALI-2 Luminaire Data
OTi DALI 10/220...240/700 NFC	Yes	Yes	Yes ¹⁾

Product description	Configuration Lock	Soft Switch Off	Dim to Dark
OTi DALI 10/220...240/700 NFC	Yes	Yes	Yes

Product description	OEM Key
OTi DALI 10/220...240/700 NFC	No

1) Acc. DALI part 251

Certificates & standards

Product description	Approval marks – approval	Standards	Protection class	Type of protection
OTi DALI 10/220...240/700 NFC	ENEC 10 / VDE / EMC / EL / CE / DALI-2 / CCC	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	II	IP20

Logistical data

Product description	Commodity code
OTi DALI 10/220...240/700 NFC	850440829000

Product family datasheet

Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
OTi DALI 10/220...240/700 NFC	01-08-2022	4062172143899	Lead

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OTi DALI 10/220...240/700 NFC	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	490c08e2-52de-4655-a1b1-90ce6abc04d9









Application advice

For more detailed application information and graphics please see product datasheet.


Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File
 User instruction OPTOTRONIC LED Power Supply
 User instruction OPTOTRONIC LED Power Supply
 Certificates OT EMC 40050085 200220
 Certificates OTi DALI 10 NFC EATON AM29184 210720
 Certificates OTi DALI 10 NFC INOTEC AM29184 210720
 Certificates OT ENEC 40038447 130722
 Certificates OT EMC 40044675 250621
 Declarations of conformity OTi DALI NFC UK DoC 4291512 240221
 Declarations of conformity OTi DALI NFC CE 3758701 200821

Product family datasheet

	CAD data OTI DALI 10 NFC IGS 140120
	CAD data OTI DALI 10 NFC STEP 140120
	CAD Data 2-dim OTI DALI 10 NFC CAD2PDF 140120
	CAD data 3-dim OTI DALI 10 NFC CAD3PDF 140120

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
4062172143899	OTi DALI 10/220...240/700 NFC	Shipping carton box 20	165 mm x 258 mm x 71 mm	3.02 dm ³	1416.00 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 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.

Product family datasheet

Disclaimer

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