

## PRODUCT FAMILY DATASHEET OPTOTRONIC Intelligent – DALI LT2 NFC

Compact constant current LED drivers



### AREAS OF APPLICATION

- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for use in luminaires with flexible current setting
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II
- Suitable for downlights, spotlights and LED panels
- Installation via Cable Clamp Kit possible (depending on version of product)

### PRODUCT FAMILY BENEFITS

- Versatile DALI window driver due to flexible output characteristic
- Very high efficiency
- Protection of the system thanks to thermal management and Smart Control
- High-quality dimming of 1...100 % by amplitude dimming
- Easy and fast output current setting via NFC

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**VERSATILE SCOPE OF APPLICATION DUE TO OSRAM DALI TECHNOLOGY:**

- Suitable for emergency Installations (acc. to EN 60598-2-22 and IEC 61347-2-13,appendix J) thanks to DC detection (0 Hz, pulsating DC), on/off switchable
- Feedback of power consumption and operating hours (Fit for SMART GRID)
- Suitable for buildings according to EPBD/BREEAM/LEED due to automatic Constant Lumen Output setting

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**PRODUCT FAMILY FEATURES**

- Supply voltage: 220...240 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Line voltage: 198...264 V
- According to EN 61347-1, 61347-2-13, 62384
- RI suppression according to EN 55015:2007+A1:2007/CDN
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- Lifetime: up to 100,000 h
- Type of protection: IP20

**TECHNICAL DATA**

**Electrical data**

Product description	Nominal 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...60 Hz	198...264 V <sup>1)</sup>	176...276 V	15 % <sup>2)</sup>	> 0.98/> 0.94
Product description	ECG efficiency	Device power loss	Power loss in stand-by mode	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)
OTi DALI 10/220...240/700 NFC	82 % <sup>3)</sup>	3.5 W	≤0.15 W	5 A <sup>4)</sup>	80	130
Product description	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)	Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)	
OTi DALI 10/220...240/700 NFC	-	2 kV	1 kV	2.5...45 V <sup>5)</sup>	60 V	

Product description	Nominal output current	Output current tolerance	Output ripple current (100 Hz)	Nominal output power	Galvanic isolation
OTi DALI 10/220...240/700 NFC	150...700 mA <sup>6)</sup>	±3 %	< 2 %	10 W <sup>7)</sup>	SELV

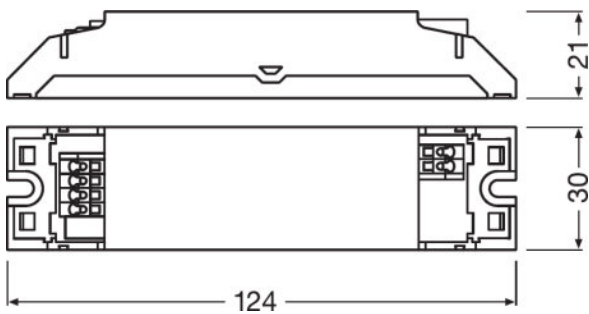
Product description	Galvanic isolation primary/secondary
OTi DALI 10/220...240/700 NFC	3.75 kV

- 1) Permitted voltage range
- 2) At full load, 220...240 V, 50 Hz
- 3) Typical
- 4)  $t_{width} = 100 \mu s$  (measured at 50 %  $I_{peak}$ )
- 5) Maximum 60 V
- 6) ±3%
- 7) Partial load 1.5...10 W

**Dimensions & weight**

Product description	Length	Width	Height	Product weight
OTi DALI 10/220...240/700 NFC	124.0 mm	31.0 mm	21.0 mm	50.00 g

**Product line drawing**



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

**Colors & materials**

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

**Temperatures & operating conditions**

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Permitted rel. humidity during operation
OTi DALI 10/220...240/700 NFC	-20...+50 °C	75 °C <sup>1)</sup>	110 °C	5...85 % <sup>2)</sup>

<sup>1)</sup> Maximum at the Tc-point

<sup>2)</sup> Maximum 56 days/year at 85 %

**Lifespan**

Product description	ECG lifetime
OTi DALI 10/220...240/700 NFC	50000 / 100000 h <sup>1)</sup>

<sup>1)</sup> T<sub>c</sub> = 75°C, 0.2% / 1,000 h failure rate

**Additional product data**

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

**Capabilities**

Product description	Dimmable	Dimming interface	Dimming range	Dimming method
OTi DALI 10/220...240/700 NFC	Yes	DALI	1...100 % <sup>1)</sup>	Amplitude Modulation

Product description	Constant lumen function	Overheating protection	Overload protection
OTi DALI 10/220...240/700 NFC	Programmable	Automatic reversible	Automatic reversible

Product description	Short-circuit protection	No-load proof	Max. cable length to lamp/LED module	Suitable for fixtures with prot. class	Suitable for emergency lighting
OTi DALI 10/220...240/700 NFC	Automatic reversible	Yes	2.0 m	I / II	Yes

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

<sup>1)</sup> For maximum nominal output current

## Certificates & standards

Product description	Approval marks – approval
OTi DALI 10/220...240/700 NFC	ENEC 10 / VDE / EMC / EL / CE / DALI-2

Product description	Standards	Protection class	Type of protection
OTi DALI 10/220...240/700 NFC	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	Temperature range at storage
OTi DALI 10/220...240/700 NFC	-40...+85 °C










## APPLICATION ADVICE







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

## SALES AND TECHNICAL SUPPORT

— Sales and Technical Support [www.ledvance.com](http://www.ledvance.com)

## DOWNLOAD DATA

File
 User instruction OPTOTRONIC LED Power Supply
 Product Datasheet Technical datasheet OTi DALI 10 NFC
 Certificates 730563_VDE Certificate
 Certificates VDE ENEC Certificate 40038447
 Certificates VDE EMC Certificate 40044675 (EN)
 Declarations of conformity INOTEC Conformity declaration AM07730 OTiD ALI 10 220-240 700 NFC
 Declarations of conformity EATON(CEAG) Conformity declaration AM07730_OTi_DALI_10_220-240_700_NFC
 Declarations of conformity EU Declaration of Conformity 3758701
 Declarations of conformity EU Declaration of Conformity 3365628

	CAD data OTi DALI 10 700 NFC built in IGS
	CAD data OTi DALI 10 700 NFC built in STEP
	CAD data OTi DALI 10 700 NFC independent IGS
	CAD data OTi DALI 10 700 NFC independent STEP
	CAD data PDF OTi DALI 10 700 NFC built in PDF
	CAD data PDF OTi DALI 10 700 NFC independent PDF

**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899562646	Shipping carton box 20	165 mm x 258 mm x 71 mm	1120.00 g	3.02 dm <sup>3</sup>

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.

**DISCLAIMER**

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