

OTi DALI 100/220...240/700 D NFC IND L

OPTOTRONIC Intelligent Industry | – Dimmable DALI (non-isolated)



Areas of application

- Linear lighting solutions for industry, storage areas and retail applications
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for installation in emergency lighting systems according to EN 60598-2-22
- Suitable for luminaires of protection class I

Product family benefits

- Fully programmable via T4T software (NFC, DALI Interface)
- Lifetime: up to 100,000 h (temperature at $T_C = 75\text{ °C}$, max. 10 % failure rate)
- High light quality: 1...100% amplitude dimming and <1% output ripple current
- Wide operating temperature range: $-40...+65\text{ °C}$
- High surge protection: up to 4 kV (L-N) / 4 kV (L/N-PE)
- Integrated inrush current limiter
- Very high efficiency (up to 96%)
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

Versatile scope of application due to OSRAM DALI Technology:

- Easy to use in corridors and restrooms because of three-level Corridor function
- Touch DIM application: easy to control via pushbutton or sensor
- Energy efficient Touch DIM operation due to automatic switch-off at sufficient residual light
- 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
- Luminaire information for easy maintenance
- Advanced luminaire/driver data (power, energy, operating hours...) for analytics

Product datasheet

Product family features

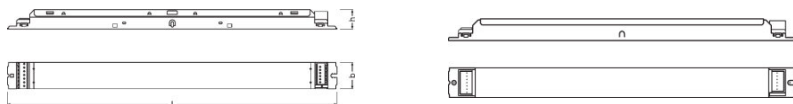
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 150 W
- Supply voltage: 220...240 V
- Available with output current range: up to 1,000 mA
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)
- Non-isolated drivers
- DALI-2 certified (Part -101,-102 and -207)

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	0...60 Hz
Input voltage AC	198...264 V
Input voltage DC	176...276 V
Current set	DALI / NFC / LEDset / Programmable
Total harmonic distortion	< 8 %
Power factor λ	> 0.98
ECG efficiency	up to 94 %
Device power loss	-
Power loss in stand-by mode	<0.2 W
Inrush current	5 A
Max. ECG no. on circuit breaker 10 A (B)	23
Max. ECG no. on circuit breaker 16 A (B)	36
Surge capability (L/N-Ground)	4 kV
Surge capability (L-N)	4 kV
Nominal output voltage	64...300 V
U-OUT (working voltage)	< 310 V
Nominal output current	125...700 mA
Output current tolerance	± 3 %
Output ripple current (100 Hz)	< 1 %
Nominal output power	28...100 W
Galvanic isolation	Non isolated

Dimensions & weight



Mounting hole spacing, length	350.0 mm
Product weight	260.00 g

Product datasheet

Cable cross-section, input side	0.5...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	8.0...9.0 mm
Wire preparation length, output side	8.0...9.0 mm
Length	360.0 mm
Width	30.0 mm
Height	21.0 mm

Colors & materials

Casing material	Metal
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Temperatures & operating conditions

Ambient temperature range	-40...+65 °C
Maximum temperature at tc test point	85 °C
Max.housing temperature in case of fault	110 °C
Permitted rel. humidity during operation	5...85 %

Lifespan

ECG lifetime	50000 / 100000 h ¹⁾
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¹⁾ At maximum T_c = 85°C / 10% failure rate / At T_{case} = 75°C at T_c point / 10% failure rate

Additional product data

Encapsulated	No
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Capabilities

Programming interface	DALI, NFC, LEDset
Dimmable	Yes
Dimming interface	DALI / Touch DIM / Touch DIM Sensor
Dimming range	1...100 %
Dimming method	DALI / TouchDIM / TouchDIM Sensor
Constant lumen function	Yes
Overheating protection	Automatic reversible
Overload protection	Non-reversible
Short-circuit protection	Yes
No-load proof	Yes
Max. cable length to lamp/LED module	5.0 m
Suitable for fixtures with prot. class	I
Suitable for emergency lighting	Yes
Type of connection, output side	Push terminal

Product datasheet

Number of channels	1
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Programmable features

Operating Current	Yes
Tuning Factor	Yes
Constant Lumen	Yes
Lamp Operating Time	Yes
Thermal Protection	No
Driver Guard	Yes
DALI Settings	Yes
Emergency Mode	Yes
Luminaire Info	Yes
Configuration Lock	Yes
Soft Switch Off	Yes
Dim to Dark	Yes
TouchDIM + Sensor	Yes
Corridor Functionality	Yes






Certificates & standards

Approval marks – approval	CE / EL / ENEC 10 / VDE-EMC / CCC / RCM
Standards	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
Type of protection	IP20

Logistical data

Temperature range at storage	-40...85 °C
Commodity code	850440829000

Download Data

File	
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet Product datasheet OTI DALI 100 IND
	Certificates VDE EMC Certificate 40011668
	Certificates VDE ENEC Certificate 40038085
	Declarations of conformity EU Declaration of Conformity 3633294

Product datasheet



Declarations of conformity
EATON(CEAG) Conformity declaration AM07661_OTi_DALI_100_220-240_700_D_NFC_IND_L



Declarations of conformity
INOTEC Conformity declaration AM07661_OTi_DALI_100_220-240_700_D_NFC_IND_L

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899559516	OTi DALI 100/220...240/700 D NFC IND L	Shipping carton box 20	385 mm x 160 mm x 100 mm	6.16 dm ³	5371.00 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.

Disclaimer

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