

## OTi DALI 75/220...240/550 D NFC IND L

OPTOTRONIC Intelligent Industry – DALI (non-isolated) | Linear constant current LED driver – Dimmable



### 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)

## Product datasheet

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### Product family benefits

- Fully programmable via T4T software (NFC, DALI Interface)
- Lifetime: up to 100,000 h (temperature at  $T_c = 75$  °C, max. 10 % failure rate)
- High light quality: 1...100% amplitude dimming and <1% output ripple current
- Wide operating temperature range: -40...+65 °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

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### 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

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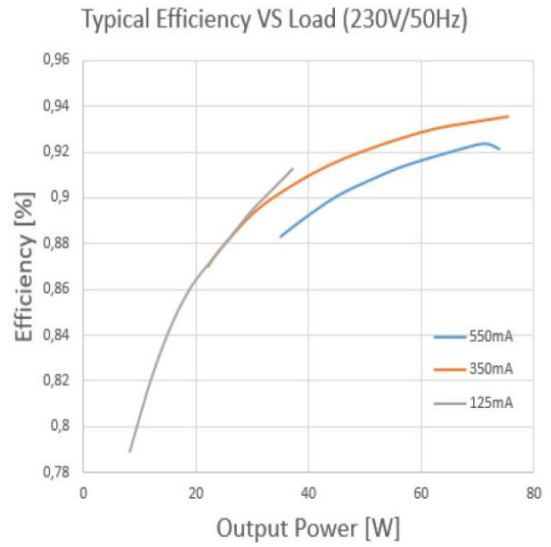
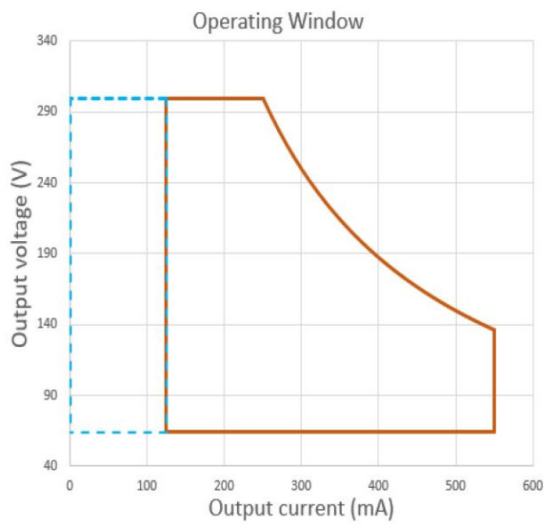
### Areas of application

- 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

## Technical data

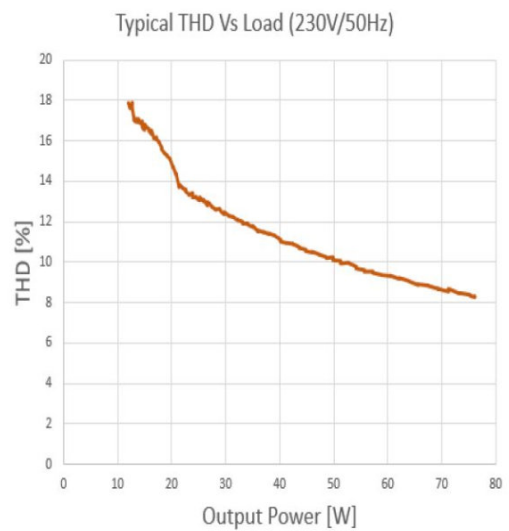
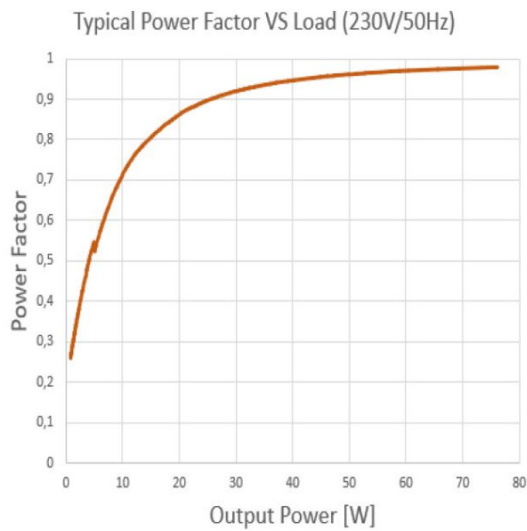
### Electrical data

Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V
Current set	DALI / NFC / LEDset / Programmable
Total harmonic distortion	< 10 %
Power factor $\lambda$	> 0.95
ECG efficiency	up to 94 %
Device power loss	7.0 W
Power loss in stand-by mode	<0.2 W
Inrush current	$\leq 5$ A
Max. ECG no. on circuit breaker 10 A (B)	21
Max. ECG no. on circuit breaker 10 A (C)	-
Max. ECG no. on circuit breaker 16 A (B)	36
Max. ECG no. on circuit breaker 16 A (C)	-
Max. ECG no. on circuit breaker 25 A (B)	-
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...550 mA
Output current LEDset open	65 mA
Output current LEDset shorted	125 mA
Default output current	125 mA
Output current tolerance	$\pm 3$ %
Output ripple current (100 Hz)	< 1 %
Output PSTLM	$\leq 1$
Output SVM	$\leq 0.4$
Nominal output power	8.0...75 W
Galvanic isolation	Non isolated



OTI DALI 75 D NFC IND L Operating window

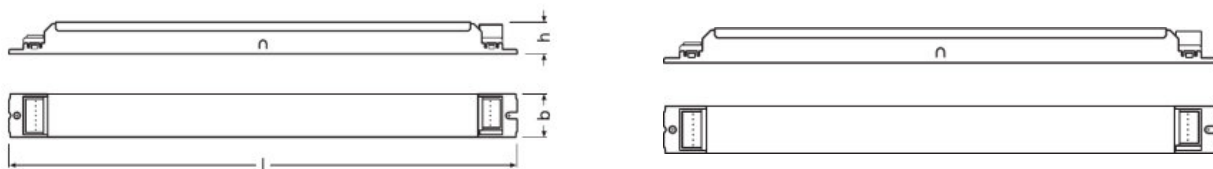
OTI DALI 75 D NFC IND L Typical Efficiency vs. Load (230 V 50 Hz)



OTI DALI 75 D NFC IND L Typical Power Factor vs. Load

OTI DALI 75 D NFC IND L Typical THD Vs Load

## Dimensions & weight



Mounting hole spacing, length	270.0 mm
Product weight	270.00 g
Cable cross-section, input side	0.5...1.5 mm <sup>2</sup>
Cable cross-section, output side	0.5...1.5 mm <sup>2</sup>
Wire preparation length, input side	8.0...9.0 mm
Wire preparation length, output side	8.0...9.0 mm
Height	21.0 mm

## Colors & materials

Casing material	Metal
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## Temperatures & operating conditions

Ambient temperature range	-40...+70 °C
Maximum temperature at tc test point	85 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % <sup>1)</sup>

<sup>1)</sup> Maximum 56 days/year at 85 %

## Lifespan

ECG lifetime	100000 / 50000 h
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## Capabilities

Programming interface	DALI, NFC, LEDset
Dimmable	Yes
Dimming interface	DALI-2 / Touch DIM / Touch DIM Sensor
Dimming range	1...100 %

## Product datasheet

Dimming method	Full analogue dimming
Constant lumen function	Programmable
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Max. cable length to lamp/LED module	5.0 m
Suitable for fixtures with prot. class	I
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Control interface	DALI
Number of channels	1

### Programming

Tuner4TRONIC Field App	Yes
Programming device	DALI magic / NFC Scanner

### Programmable features

DALI-2 Luminaire Data	Yes
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### Certificates & standards

Approval marks – approval	CE / EL / VDE-ENEC / EAC / CCC / RCM / BIS
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
Type of protection	IP20

### Logistical data

Commodity code	850440829000
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### Download Data

File
 User instruction OPTOTRONIC LED Power Supply
 Certificates OTI DALI D NFC IND L CB DE1 63739 130720
 Certificates OTI DALI 75 D NFC IND L EATON AM35046 150720

## Product datasheet



Certificates  
OTI DALI 75 D NFC IND L INOTEC AM35046 150720



Certificates  
OT ENEC 40038085 130720



Certificates  
OT EMC 40044675 010321



Declarations of conformity  
OTI DALI D NFC IND L CE 3633294 030720

## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172139670	OTi DALI 75/220...240/550 D NFC IND L	Shipping carton box 20	385 mm x 160 mm x 100 mm	6.16 dm <sup>3</sup>	5574.00 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.