OTi DALI 35/220-240/1A0 NFC L

OPTOTRONIC Intelligent – DALI NFC (SELV) | Linear constant current LED driver – Dimmable

Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile DALI window driver up to 50 W due to flexible output characteristic
- Supply voltage: 220…240 V
- Available with output current range: up to 1,400 mA
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)

Product family benefits

- Fully programmable via software (DALI Interface, NFC)
- Advanced luminaire/driver data (power, energy, operating hours…) for analytics
- DALI-2 certified incl. Parts 251, 252, 253
- 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
- Higher quality of light thanks to < 3% output ripple current
- Very high efficiency
- Very low standby power consumption: < 0.15 W *
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

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Areas of application

- Linear lighting for office, education, industry, storage areas and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
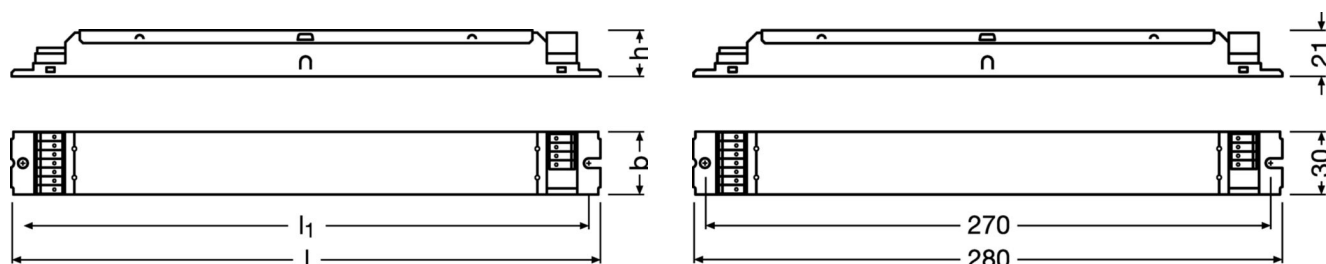- Suitable for luminaires of protection class I

Technical data

Electrical data

Max. ECG no. on circuit breaker 10 A (B)	14
Max. ECG no. on circuit breaker 16 A (B)	24
Maximum output power	37 W
Nominal output current	200…1050 mA
Nominal output power	4…37 W
Nominal output voltage	15…54 V
Nominal input voltage	220…240 V
Input voltage AC	198…264 V
Input voltage DC	176…276 V
Device power loss	3.0 W
Efficiency in full-load	89 % [1]
Inrush current	≤ 20 A
Power factor λ	0.61C…0.98
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 / Programmable
Output current tolerance	±3 %
Output ripple current (100 Hz)	≤ 3 %
Total harmonic distortion	≤ 10 %
Default output current	350 mA

1) at 230 V, 50 Hz

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Dimensions & weight

Product weight	209.00 g
Length	280.0 mm
Height	21.0 mm
Width	30.0 mm
Cable cross-section, input side	0.5…1.5 mm²
Cable cross-section, output side	0.5…1.5 mm²
Mounting hole spacing, length	270.0 mm
Wire preparation length, input side	8.0…9.0 mm
Wire preparation length, output side	8.0…9.0 mm

Colors & materials

Casing material	Metal

Temperatures & operating conditions

Ambient temperature range	-25…+60 °C
Max.housing temperature in case of fault	110 °C
Maximum temperature at tc test point	75 °C
Permitted rel. humidity during operation	5…85 % [1]
Temperature range at storage	-40…+85 °C

1) Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	100000 h / 50000 h

Additional product data

Encapsulated	No

Capabilities

Max. cable length to lamp/LED module	2.0 m [1]
Number of channels	1
Dimmable	Yes
Dimming interface	DALI-2 / Touch DIM / Touch DIM Sensor
Dimming method	Full analogue dimming
Dimming range	1…100 %
Overload protection	Automatic reversible
Overheating protection	Automatic reversible
Short-circuit protection	Automatic reversible
Suitable for emergency lighting	Yes
Suitable for fixtures with prot. class	I
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Constant lumen function	Programmable
No-load proof	Yes
Programming interface	DALI, NFC

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

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Programming

Box programming	Yes

Programmable features

Dim to Dark	Yes
Corridor Functionality	Yes
DALI Settings	Yes
DALI-2 Luminaire Data	Yes
Driver Guard	Yes
Emergency Mode	Yes
Soft Switch Off	Yes
Tuning Factor	Yes
TouchDIM + Sensor	Yes

Certificates & standards

Type of protection	IP20
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 61347
Approval marks – approval	CE / EL / VDE-ENEC / EAC / CCC / BIS / RCM

Logistical data

Commodity code	85044083900

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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.

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Download Data

File			
Certificates	PDF	▶	OTI DALI 35 NFC L EAT AM31194 191219
Certificates	PDF	▶	OTI DALI 35 NFC L INO AM31194 191219
Certificates	PDF	▶	OT ENEC 40038447 270224
CAD data 3-dim	Compressed	▶	OTI DALI NFC L CAD3PDF 030220
CAD data 2-dim	Compressed	▶	OTI DALI NFC L CAD2PDF 030220
CAD data	Compressed	▶	OTI DALI NFC L IGS 030220
CAD data	Compressed	▶	OTI DALI NFC L STEP 030220
Mandatory Publications	PDF	▶	OTI DALI NFC L CE 4159050 06 160523
Mandatory Publications	PDF	▶	OTI DALI NFC L UK DoC 4281121 03 060923
User instruction	PDF	▶	UI OTI DALI NFC L

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Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172074964	OTi DALI 35/220-240/1A0 NFC L	Shipping carton box 20 Pieces	303 x 159 x 105 mm	5.06 dm³	143.00 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

Accessories Optional

Product description	Accessory name	Accessory code
OTi DALI 35/220-240/1A0 NFC L	PRH101 -USB	►6977078996938
OTi DALI 35/220-240/1A0 NFC L	CPR30 -USB	►6977078996945

Disclaimer

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

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