OTI DX 80/220-240/2A1 NFC L

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

Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Supply voltage: 220…240 V
- Constant Lumen Output (CLO)
- Monitoring of luminaire operating parameters
- SELV driver

Product family benefits

- D4i certified SELV DX LED driver up to 80 W due to flexible output characteristic
- Integrated DEXAL Bus power supply for sensors and wireless radios
- Simplified luminaire design for wireless lighting control system and sensors
- Locking and unlocking of luminaire/driver data
- Advanced luminaire/driver data (power, energy, operating hours…) for analytics
- Following DiiA Specification Parts -250, -251, -252 and -253
- Fully programmable via T4T software (NFC, DALI Interface)
- Very high efficiency
- Wide operating range up to 2100 mA

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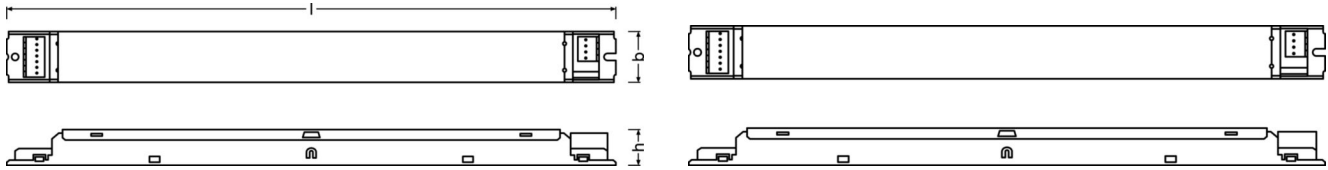
Areas of application

- Linear lighting for office, education, industry, storage areas and retail
- DEXAL, easy connection to different partner BMS systems
- Suitable for "Works with OSRAM DEXAL" partner components
- Suitable for luminaires of protection class I

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Technical data

Electrical data

Max. ECG no. on circuit breaker 10 A (B)	12
Max. ECG no. on circuit breaker 16 A (B)	19
Maximum output power	80 W
Nominal output current	600…2100 mA
Nominal output power	32…80 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	8.0 W
Efficiency in full-load	91 %
Galvanic isolation primary/secondary	SELV
Inrush current	40 A
Networked standby power	<0.20 W
Power factor λ	> 0.95
Mains frequency	50/60 Hz
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
U-OUT (working voltage)	15...54 V
Current set	DALI / NFC
DEXAL Guaranteed Supply Current	53 mA
DEXAL Peak Supply Current	62 mA
DEXAL Supply Voltage	15 V
Output current tolerance	±3 %
Output ripple current (100 Hz)	< ±3 %
Protective conductor current	<0.5 mA
Total harmonic distortion	< 10 %
Default output current	300 mA

Dimensions & weight

Product weight	270.00 g
Length	360.0 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	350.0 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…+50 °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

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
Dimming method	Analog
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	Yes
No-load proof	Yes
Programming interface	DEXAL, 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
Configuration Lock	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	NONE
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
Approval marks – approval	CE / EL / ENEC / CCC / BIS / RCM

Logistical data

Commodity code	85044083900

Specifications are subject to changes without notice.

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Additional product information

- The DEXAL interface is polarity sensitive, even if the DEXAL bus power supply in the driver is turned off. Therefore the polarity of all connected drivers should not be mixed.
- For efficiency and standby power measurement, the D4i bus power supply shall be switched off by using Tuner4TRONIC. Refer to www.tuner4tronic.com.

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.

Download Data

File		
Certificates	PDF	▶OT ENEC 40038085 230824
Mandatory Publications	PDF	▶OTi DX NFC L CE 4452520 200923
Mandatory Publications	PDF	▶OTi DX NFC L UK DoC 4506595 200923

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Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172372930	OTI DX 80/220-240/2A1 NFC L	Shipping carton box 20 Pieces	385 x 160 x 100 mm	6.16 dm³	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.