The trusted value of OSRAM Digital Systems continues with Inventronics Global – where experience meets innovation.

OTI DX 100/220-240/700 D NFC IND L

OPTOTRONIC Intelligent Industry – DEXAL (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
- Monitoring of luminaire operating parameters
- Supply voltage: 220...240 V
- Available with output current range: up to 850 mA
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)
- Non-isolated drivers

Product family benefits

- Versatile non-isolated DEXAL LED driver up to 150 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
- D4i certified
- Prepared for DiiA Specification Parts -250, -251, -252 and -253
- Fully programmable via T4T software (NFC, DALI Interface)
- Lifetime: up to 100,000 h (temperature at $T_2 = 75$ °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%)



Areas of application

- Linear and area lighting
- Industry lighting
- Suitable for luminaires of protection class I

Technical data

Electrical data

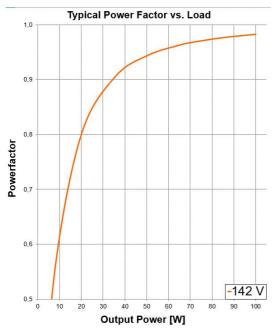
Nominal input voltage	220240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198264 V
Input voltage DC	176276 V
Total harmonic distortion	< 10 %
Power factor λ	0.57C0.98
Efficiency in full-load	93 % 1)
Device power loss	2.0 W
Networked standby power	<0.25 W ²⁾
Inrush current	≤ 5 A
Max. ECG no. on circuit breaker 10 A (B)	20
Max. ECG no. on circuit breaker 16 A (B)	32
Surge capability (L-N)	4 kV
Surge capability (L/N-Ground)	4 kV
Protective conductor current	0.32 mA
Nominal output voltage	64300 V
U-OUT (working voltage)	< 310 V
Nominal output current	200700 mA
Default output current	100 mA ³⁾
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 1 %
Output PSTLM	≤1
Output SVM	≤0.4
Output current LEDset open	100 mA
Output current LEDset shorted	200 mA
Nominal output power	23100 W
Maximum output power	100 W
DEXAL Supply Voltage	15 V
DEXAL Peak Supply Current	60 mA
DEXAL Guaranteed Supply Current	53 mA

¹⁾ at 230 V, 50 Hz

²⁾ DEXAL PSU disabled

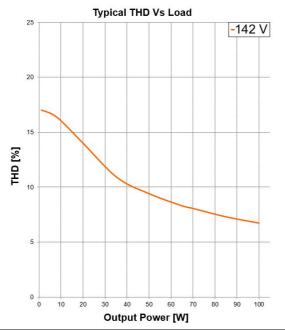
³⁾ LEDset deactivated

Typical Power Factor v Load



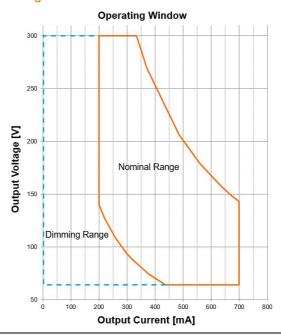
Typical Power Factor vs. Load OTI DX 100/700 D NFC IND L

Typical THD v Load



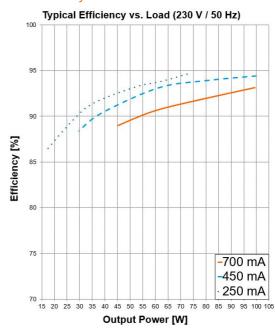
Typical THD vs. Load OTI DX 100/700 D NFC IND L

Operating Window



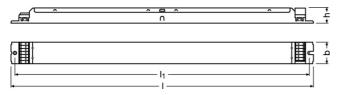
Operating window OTI DX 100/700 D NFC IND L

Typical Efficiency v Load 230 V 50 Hz



Typical Efficiency vs. Load (230 V / 50 Hz) OTI DX 100/700 D NFC IND L

Dimensions & weight



Product weight	311.13 g
Length	425.0 mm
Width	30.0 mm
Height	21.0 mm
Mounting hole spacing, length	414.0 mm
Cable cross-section, input side	0.51.5 mm²
Cable cross-section, output side	0.51.5 mm²
Wire preparation length, input side	8.09.0 mm
Wire preparation length, output side	8.09.0 mm

Colors & materials

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	585 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %



Lifespan			
ECG lifetime	100000 h / 50000 h		
Additional product data			
Encapsulated	No		
Capabilities			
Programming interface	DEXAL, NFC, LEDset		
Control interface	DEXAL		
Dimmable	Yes		
Dimming interface	DALI-2 / DEXAL / Corridor		
Dimming range	1100 %		
Dimming method	Full analogue dimming / AM/PWM selectable		
DALI-2 Diagnostic Data	Yes		
DALI-2 Energy Data	Yes		
Constant lumen function	Programmable		
Max. cable length to lamp/LED module	2.0 m ¹⁾		
Suitable for fixtures with prot. class	I		
Suitable for emergency lighting	Yes		
Type of connection, input side	Push terminal		
Type of connection, output side	Push terminal		
Number of channels	1		
Overheating protection	Automatic reversible		
Overload protection	Automatic reversible		
Short-circuit protection	Automatic reversible		
Intended for no-load operation	No		

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

Yes

No-load proof

Programming

Programming device	DALI magic / NFC Scanner		
Tuner4TRONIC	Yes		
Tuner4TRONIC Field App	Yes		
Box programming	Yes		

Programmable features

DALI-2 Luminaire Data	Yes
Dim to Dark	Yes
Soft Switch Off	Yes
Tuning Factor	Yes
Driver Guard	Yes
Emergency Mode	Yes

Certificates & standards

Approval marks – approval	CE / EL / VDE-ENEC / VDE-EMC / EAC / CCC / BIS / RCM / D4i			
Standards	IEC 61347-1 / IEC 61347-2-13 / IEC 62384 / IEC 62386 / IEC 61000-3-2 / IEC 61000-3-3 / IEC 61547			
Type of protection	IP20			

Logistical data

Commodity code	85044083900

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)			
Date of Declaration 27-08-2025			
Primary Article Identifier	4062172050883 6937186111890		
Declaration No. in SCIP database	In work		
SCIP_STATUS	In work		
SCIP_ID			



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.



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.



Download Data

File		
Certificates	PDF	►OT ENEC 40038085 230824
CAD data 3-dim	Compressed	►OTI DX D NFC IND L CAD3PDF 191219
CAD data 2-dim	Compressed	►OTI DX D NFC IND L CAD2PDF 191219
CAD data	Compressed	►OTI DX D NFC IND L IGS 191219
CAD data	Compressed	►OTI DX D NFC IND L STEP 191219
Mandatory Publications	PDF	►OTI DX D NFC IND L CE 3790165 05 040225
Mandatory Publications	PDF	►OTI DX D NFC IND L UK DoC 4287982 01 080923
User instruction	PDF	►UI OTi DX D NFC IND L

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172050883 OSRAM	OTI DX 100/220-240/700 D NFC IND L	Shipping carton box 20 Pieces	447 x 160 x 101 mm	7.22 dm³	321.08 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

Data privacy

This Inventronics driver can be configured using the Tuner4TRONIC software. This requires registering on www.inventronicsglobal.com/ds and downloading theTuner4TRONIC software from the Internet. The Tuner4TRONIC software enables users to access and view the operational data of a luminaire or driver via the corresponding programming interfaces. A password key (Config Lock) must be set up in the driver via the Tuner4TRONIC software in order to control which users can access and view operational data. Follow the instructions for password setup. To grant an external person or company rights to access or view operational data, you can assign password keys. In this case, however, you are responsible for ensuring that the third party concerned takes notice of the information described here. However, Inventronics can read out operating data from devices for maintenance and service purposes even when a password key has been assigned. In individual cases, Inventronics will also use its access rights in order to optimize or improve driver hardware and driver functions. In accordance with data privacy principles, any user of operating data (luminaire manufacturers, third parties with access rights) must ensure that personal data (e.g. name, address, location IDs) are only merged with the prior written consent of the person (end user) concerned. The respective user of the operating data is responsible for providing evidence of consent.

Accessories Optional

Product description	Accessory name	Accessory code
OTI DX 100/220-240/700 D NFC IND L	PRH101 -USB	▶6977078996938
OTI DX 100/220-240/700 D NFC IND L	PRH101 -USB	▶6937186112354
OTI DX 100/220-240/700 D NFC IND L	CPR30+	▶6977078996945
OTI DX 100/220-240/700 D NFC IND L	CPR30+	▶6937186112378

Disclaimer

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