OT DX 110/220...240/1A0 DIMA LT2 E

OPTOTRONIC - DEXAL NFC IP20 | D4i, DEXAL, AstroDIM, StepDIM - constant current LED drivers



Caratteristiche prodotto

- Range di corrente in uscita: 70...1.050 mA
- Potenza assorbita in standby: < 0,5 W

Vantaggi prodotto

- For Zhaga Book18 Luminaires and D4i certified incl. Parts 25x + AUX
- Bassa tolleranza dell'efficienza luminosa grazie alla bassa tolleranza della corrente (± 3%)

Aree applicative

- Illuminazione stradale e urbana
- Industria
- Adatto per applicazioni in esterni in apparecchi con IP > 54
- Per apparecchi in esterni in classe di isolamento I e II

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Dati tecnici

Dati elettrici

Tensione nominale	220…240 V
Tensione in ingresso	198…264 V [1)]
Tensione continua (cc)	176…276 V [2)]
Corrente nominale	0,53 A
Frequenza di rete	0/50/60 Hz Hz [2)]
Fattore di potenza λ	0,73C„,0,99 [3)]
Total harmonic distortion	< 10 % [4)]
Perdita di potenza	8,0 W [5)]
Corrente di innesco	65 A [6)]
Numero max di ECG con autom. da 10 A	7 [7)]
No. max di ECG p. circuito autom. 16 A	12 [7)]
Numero max di ECG con autom. da 25 A (B)	19 [7)]
Resistenza ai transitori (L/N- terra)	10 kV [8)]
Resistenza ai transitori (L/N)	6 kV [9)]
Potenza in uscita	110 W [10)]
Maximum output power	110 W
Efficiency in full-load	93 % [11)]
Corrente in uscita	200…1050 mA
Default output current	700 mA
Output current tolerance	±3 % [12)]
Output ripple current (100 Hz)	10 %
Minimum output current	70 mA
Galvanic isolation	Double
Tensione in uscita	75…220 V
U-OUT	250 V
Nominal input voltage (SD port)	220…240 V [13)]
Auxiliary Power Supply	24 V [14)]
Output current LEDset open	70 mA
Output current LEDset shorted	Not allowed

1) Intervallo di tensione consentito

2) Additional fuse needed in DC operation

3) Full Load/Half Load at 230V 50Hz

4) Max. output power at 230 V_{AC}

5) Massima

6) At 160 µs

7) Tipo B

8) Single pulse 10kV / 12 Ohm (1.2/50 µs)

9) @ 2 Ohm, acc. to EN61547

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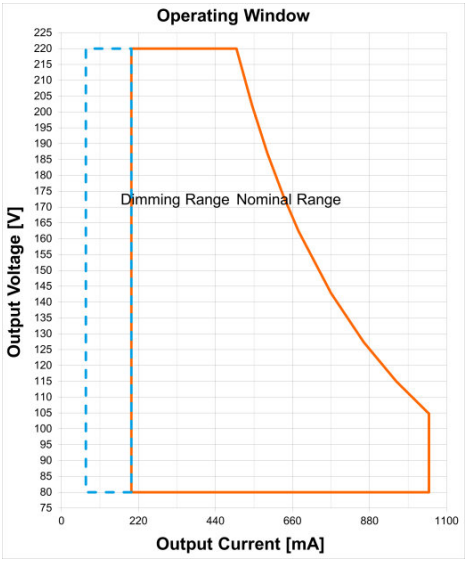
10) Max. 75% in DC operating mode

11) at 230 V, 50 Hz

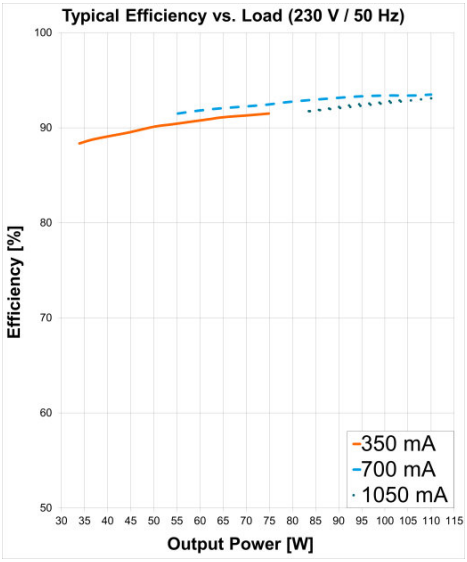
12) +/- 5% for LEDset down to 300mA

13) with external component 'OT DX SD BOX' only

14) 3W average, 6W peak power

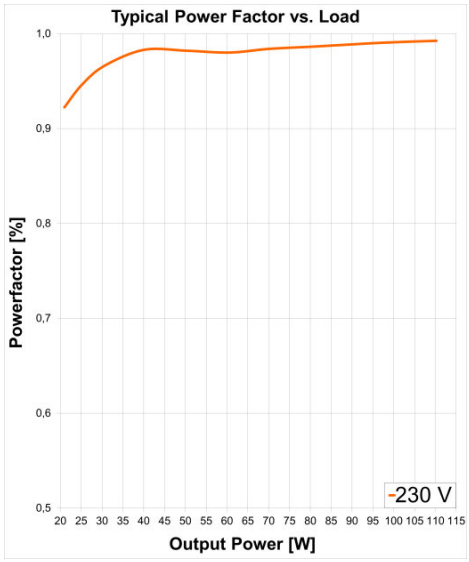


OT 110170-2401A0 1DIMLT2 G1 CE Operating Window

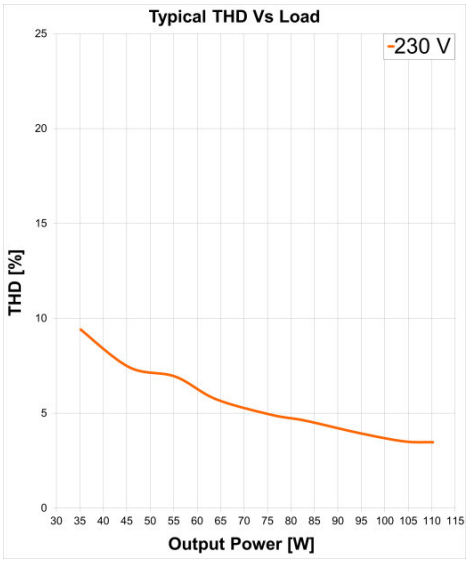


Typical Efficiency vs. Load (230 V 50 Hz) OT DX 1101A0 DIMA LT2 E

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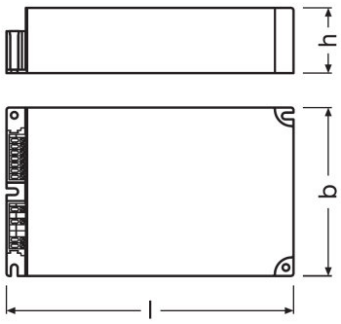


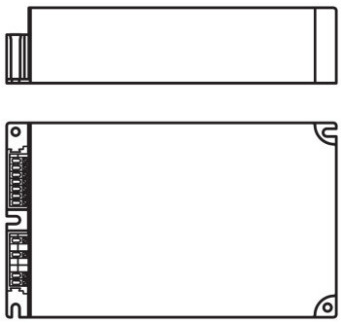
Typical Power Factor vs. Load OT DX 110 1A0 DIMA LT2 E



Typical THD Vs Load OT DX 110 1A0 DIMA LT2 E

Dimensioni e peso





Lunghezza	170,0 mm
Larghezza	100,0 mm
Altezza	40,0 mm
Distanza tra fori di fissaggi-lunghezza	160,0 mm
Distanza tra fori di fissaggio-larghezza	90,0 mm
Peso prodotto	998,00 g
Sezione dei cavi, lato ingresso	0,2…1,5 mm² [1)]
Sezione dei cavi, lato uscita	0,2…1,5 mm² [1)]
Spellatura dei cavi in ingresso	8,5…9,5 mm

[1)] Solid/ Flexible Leads

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Temperature e condizioni di utilizzo

Temperatura ambiente	-40…+60 °C
Temperatura di stoccaggio	-25…85 °C
Temperatura massima nel punto di prova T	85 °C
Max temp involucro in caso di malfunzion	120 °C
Umidità relativa	5…85 % [1]

[1] Non condensing, absolute humidity: 36g/m³

Durata

Durata ECG	100000 h [1]

[1] At T_{case} = 73°C at T_c point / 10% failure rate

Durata stimata

Tipo				
OT DX 110/220…240/1A0 DIMA LT2 E	Temperatura ambiente ECG [ta]	60	50	48
	Temperatura punto tc [°C]	85	75	73
	Durata [h]	50000	85000	100000

Caratteristiche

Dimmerabile	Sì
Interfaccia per la regolazione	AstroDIM / DALI/DEXAL/D4i / StepDIM [1]
Campo di regolazione	10…100 %
Idoneo per apparecchi con vetro frontale	I / II
Constant Lumen Function	Sì
Ingresso coefficiente temperatura negati	Sì
Protezione contro i corto circuiti	Sì
Prova funzionamento a vuoto	Sì
Intended for no-load operation	No
Lunghezza massima cavi ECG/lampada	2,0 m [2]
Protezione contro il sovraccarico	Sì
LEDset	Sì
Number of channels	1
DALI-2 Energy Data	Sì [3]
DALI-2 Diagnostic Data	Sì [4]

[1] StepDIM functionality with external component 'OT DX SD BOX' only

[2] Output wires must be routed as close as possible to each other

[3] Acc. DALI part 252

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[4] Acc. DALI part 253

Programming

Tuner4TRONIC	Sì
Tuner4TRONIC Field App	Sì
Programming device	DALI / NFC

Programmable features

Constant Lumen	Sì
Thermal Protection	Sì
Driver Guard	Sì
AstroDIM	Sì
StepDIM	Sì [1]
Emergency Mode	Sì
DALI-2 Luminaire Data	Sì [2]
Configuration Lock	Sì

[1] StepDIM functionality with external component 'OT DX SD BOX' only

[2] Acc. DALI part 251

Certificati, Norme, Direttive

Grado di protezione	IP20
Norme	Secondo EN 61347-1/Secondo EN 61347-2-13/Secondo EN 62384/Secondo EN 55015:2006 + A1:2007 + A2:2009/Secondo EN 61547/Secondo FCC 47 part 15 class B/Secondo IEC 61000-3-2/Secondo IEC 61000-3-3/Secondo IEC 62386-101/Secondo IEC 62386-102/Secondo IEC 62386-207/Acc. to IEC 62386-150/Acc. to IEC 62386-250/Acc. to IEC 62386-251, -252, -253
Marchi di approvazione	CE / ENEC / VDE / VDE-EMC / CCC / EL / DALI-2 / D4i / RCM

Dati logistici

Codice prodotto di base	85044083900

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	30-10-2023
Primary Article Identifier	4052899999688 | 8010703806283
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1

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Scheda prodotto

Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	44acb921-0351-4d24-891d-84eb97da08de | e48b4d64-4d12-47d8-91ed-1dbe3f5e430c

Testo delle specifiche

- Shut down of output load happens if the input voltage of the load is below the allowed minimum output voltage of the driver. The driver automatically tries to switch on the load cyclically.
- The driver automatically reduces the output current in case the maximum allowed output power is exceeded, as long as the input voltage of the load is within the declared output voltage range of the driver. In all other cases the driver may shut down the load.
- The driver is protected against temporary overheating by automatically reduction of the output current.
- Several external NTCs are supported for temperature protection of the LED module or luminaire. The type of NTC can be selected in the programming software in the temperature based mode.By default the resistor based mode is actived with following values: start derating: 6.3 kOhm, end derating 5.0 kOhm, shut off: 4.3 kOhm, derating level 50 %.
- The constant lumen feature is disabled by default.
- If any output level is below the physical min level, the physical min level will be used.
- not relevant
- 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 dati

	File
	User instruction OPTOTRONIC Outdoor
	Brochure Technical application guide DEXAL LED drivers (EN)
	Brochure 4 DIM NFC G3 CE LED drivers and T4T C (EN)
	Certificati OT VDE ENEC 40050684 290923
	Certificati OT DX DIMA LT2 E CB DE1 63485 060520
	Certificati OT EMC 40044675 031022
	Dichiarazioni di conformità OT DX DIMA LT2 E CE 3745354 060921
	Dati CAD OT DX 110 DIMA LT2E IGS 060220
	Dati CAD OT DX 110 DIMA LT2E STEP 060220
	Dati CAD 2-dim OT DX 110 DIMA LT2E CAD2PDF 060220

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	Dati CAD 3-dim OT DX 110 DIMA LT2E CAD3PDF 060220

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.

ISOLATION	Input / Mains	EQUI	DALI	LEDset	LED Output	Case	AUX	LSI	NTC
Input / Mains	-	Double	SELV	Double	Double	Double	SELV	SELV	Double
EQUI	Double	-	Basic	Basic	Basic	Basic	Basic	Basic	Basic
DALI	SELV	Basic	-	Basic	Basic	Double	-	-	Basic
LEDset	Double	Basic	Basic	-	-	Double	Basic	Basic	-
LED Output	Double	Basic	Basic	-	-	Double	Basic	Basic	-
Case	Double	Basic	Double	Double	Double	-	Double	Double	Double
AUX	SELV	Basic	-	Basic	Basic	Double	-	-	Basic
LSI	SELV	Basic	-	Basic	Basic	Double	-	-	Basic
NTC	Double	Basic	Basic	-	-	Double	Basic	Basic	-

Dati logistici

Codice prodotto	**Descrizione del prodotto**	**Unità di imballo (Pezzi/unità)**	**Dimensioni (lunghezza x profondità x altezza)**	**Volume**	**Peso lordo**
4052899999688	OT DX 110/220…240/1A0 DIMA LT2 E	Cartone di spedizione 10	303 mm x 285 mm x 205 mm	17.70 dm³	10704.00 g

1)⛒codice prodotto indicato descrive la minore quantità che può essere ordinata. Una unità di spedizione può contenere uno o più di un singolo prodotto. Quando si inserisce un ordine, per la quantità inserire una o più unità di spedizione.

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Scheda prodotto

Accessori opzionali

Descrizione del prodotto	Nome dell'accessorio	Codice dell'accessorio
OT DX 110/220…240/1A0 DIMA LT2 E	NFC Scanner by TERTIUM Technology	4055462290281
OT DX 110/220…240/1A0 DIMA LT2 E	OT DX SD BOX	4062172048002

Norme sulla privacy

This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on www.myosram.com 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, OSRAM can read out operating data from devices for maintenance and service purposes even when a password key has been assigned. In individual cases, OSRAM 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.

Clausola

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

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