OT DX 165/220…240/1A0 DIMA LT2 E

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

A termék jellemzői

- Current output range: 70…1,050 mA
- Standby power consumption: < 0.5 W

A termék előnyei

- For Zhaga Book18 Luminaires and D4i certified incl. Parts 25x + AUX
- Low luminous efficacy tolerance through low output current tolerance of ± 3 %

Alkalmazási területek

- Street and urban lighting
- Industry
- Suitable for outdoor applications in luminaires with IP > 54
- Suitable for use in outdoor luminaires of protection class I and II

Műszaki adatok

Elektromos adatok

Névleges feszültség	220…240 V
Bemeneti feszültség, AC	198…264 V [1)]
Bemeneti feszültség DC	176…276 V [2)]
Névleges áram	078 A
Hálózati frekvencia [calc.]	0/50/60 Hz [2)]
Teljesítménytényező, λ	077C099 [3)]
Teljes harmonikus torzítás	< 10 % [4)]
Készülék vesztesége	13 W [5)]
Bemelegedési áram	77 A [6)]
Megszakítón megengedett előtét db 10 A (B)	5 [7)]
Megszakítón megengedett előtét db 16 A (B)	9 [7)]
Előtétek legnagyobb db-száma/megszakító	14 [7)]
Lökőfeszültség-állóság, (L/N-föld)	10 kV [8)]
Lökőfeszültség-állóság, (L-N)	6 kV [9)]
Névleges kimeneti teljesítmény	165 W [10)]
Legnagyobb kimenő teljesítmény	165 W
Efficiency in full-load	94 % [11)]
Névleges kimeneti áram	200…1050 mA
Default output current	700 mA
Kimeneti áram tűrés	±3 % [12)]
Kimeneti ripple áram (100 Hz)	10 %
Legkisebb kimeneti áram	70 mA
Galvanikus elválasztás	Double
Névleges kimeneti feszültség	130…260 V
U-OUT (üzemi feszültség)	300 V
Névleges bemeneti feszültség (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) Permitted voltage range

2) Additional fuse needed in DC operation

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

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

5) Maximum

6) 180 µs

7) Type B

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

9) @ 2 Ohm, acc. to EN61547

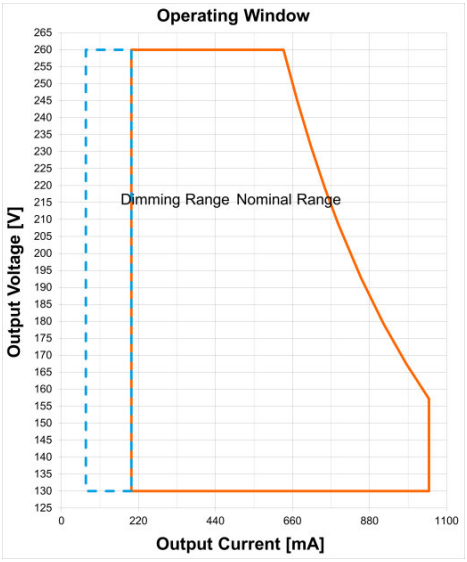
10) Max. 75% in DC operating mode

11) at 230 V, 50 Hz

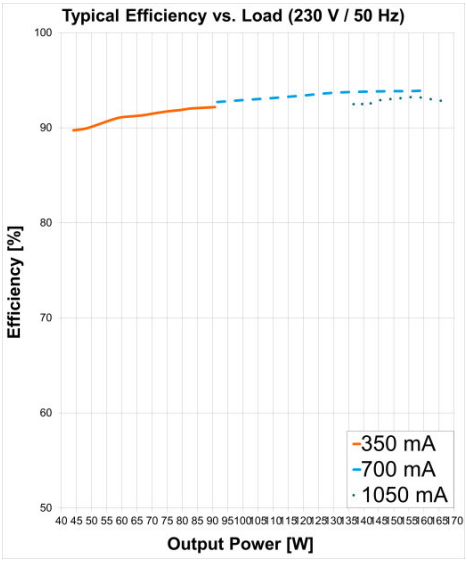
12) +/- 5% for LEDset down to 300mA

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

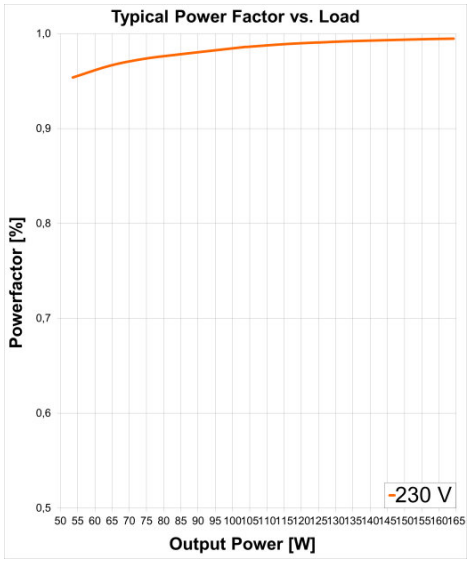
14) 3W average, 6W peak power



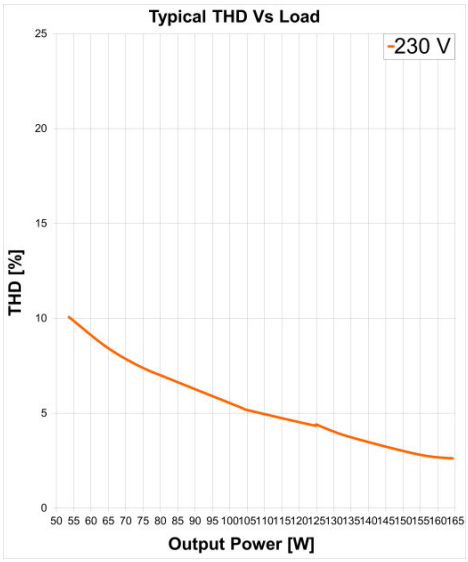
Operating Window OT DX 165 1A0 DIMA LT2 E



Typical Efficiency vs. Load (230 V 50 Hz) OT DX 1651A0 DIMA LT2 E

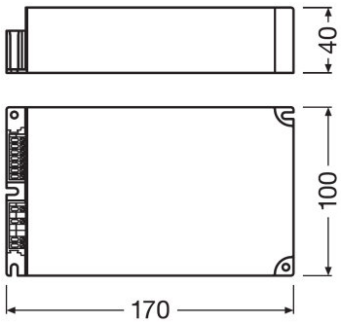


Typical Power Factor vs. Load OT DX 165 1A0 DIMA LT2 E



Typical THD Vs Load OT DX 165 1A0 DIMA LT2 E

Méretek és súly



Hosszúság	1700 mm
Szélesség	1000 mm
Magasság	400 mm
Szerelési furattávolság, hosszúság	160,0 mm
Szerelési furattávolság, szélesség	90,0 mm
Termék súlya	105000 g
Vezeték keresztmetszet, bemeneti oldal	0,2…1,5 mm² [1)]
Vezeték keresztmetszet, kimeneti oldal	0,2…1,5 mm² [1)]
Vezeték-előkészítési hossz, bemenet	8,5…9,5 mm

[1)] Solid/ Flexible Leads

Hőmérséklet és működési feltételek

Környezeti hőmerséklet tartomány	-40…+55 °C
Hőmérséklet-tartomány tároláskor	-25…85 °C
Max. hőmérséklet a tc mérőponton	90 °C
Max. házhőmérséklet hibaállapotban	120 °C
Megengedett légnedvesség üzem közben	5…85 % [1]

[1] Lecsapódás nélkül, absz. Légnedvesség: 36g/m³

Élettartam

Elektronikus előtét élettartam	100000 h [1]

[1] At T_{case}=78°C at T_c point / 10% failure rate

Expected Lifetime

Product name				
OT DX 165/220…240/1A0 DIMA LT2 E	ECG ambient temperature [ta]	55	45	43
	temperature at tc-point [°C]	90	80	78
	lifetime [h]	50000	85000	100000

Képességek

Dimmelhető	Yes
Dimmelő interfész	AstroDIM / DALI/DEXAL/D4i / StepDIM [1]
Dimmelési tartomány	10…100 %
Alkalmasság érintésvédelmi osztályhoz	I / II
Állandó fényáram funkció	Yes
Negatív hőfokténye zőjű bemenet	Igen
Zárlatvédett	Yes
Nem terhelés-védett	Yes
Intended for no-load operation	Nem
Max. vezetékhossz lámpa/LED modul	2,0 m [2]
Túlterhelés védelem	Yes
LEDset	Igen
Number of channels	1
DALI-2 Energy Data	Igen [3]
DALI-2 Diagnostic Data	Igen [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

[4] Acc. DALI part 253

Programming

Tuner4TRONIC	Igen
Tuner4TRONIC Field App	Igen
Programming device	DALI / NFC

Programmable features

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

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

[2] Acc. DALI part 251

Tanúsítványok és szabványok

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

Logisztikai adatok

Commodity code	85044083900

Környezetvédelmi információk

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	03-11-2023
Primary Article Identifier	4052899999695
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1

Termék adatlap

Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	a94e5118-1deb-440e-ae82-f1b5c4081970

Adatlap szöveg

- 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 Data

	File
	User instruction OPTOTRONIC Outdoor
	Brochures Technical application guide DEXAL LED drivers (EN)
	Brochures 4 DIM NFC G3 CE LED drivers and T4T C (EN)
	Certificates OT VDE ENEC 40050684 290923
	Certificates OT EMC 40050085 200220
	Certificates OT DX DIMA LT2 E CB DE1 63485 060520
	Certificates OT EMC 40044675 031022
	Declarations of conformity OT DX DIMA LT2 E CE 3745354 060921
	CAD data OT DX 165 DIMA LT2E IGS 120220
	CAD data OT DX 165 DIMA LT2E STEP 120220

	CAD Data 2-dim OT DX 165 DIMA LT2E CAD2PDF 120220
	CAD data 3-dim OT DX 165 DIMA LT2E CAD3PDF 120220

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	-

Logisztikai adatok

Termékkód	**Termékmegnevezés**	**Csomagolás (darab/egység)**	**Méretek (hosszúság x szélesség x magasság)**	**Térfogat**	**Bruttó súly**
4052899999695	OT DX 165/220…240/1A0 DIMA LT2 E	Karton 10	303 mm x 285 mm x 205 mm	17.70 dm^3	11224.00 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.

Opcionális tartozékok

Termékmegnevezés	Tartozékok neve	Tartozékok kódja
OT DX 165/220…240/1A0 DIMA LT2 E	OT DX SD BOX	4062172048002

Adatvédelem

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.

Lemondás

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