

OPTOTRONIC Intelligent - DALI NFC LP I

Compact constant current LED driver - Dimmable



Areas of application

- Suitable for downlights, spotlights and LED panels
- Suitable for use in luminaires with flexible current setting
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II

Product family benefits

- Small housing for flexible luminaire designs
- Versatile DALI window driver due to flexible output characteristic
- Easy and fast output current setting via NFC
- Very high efficiency
- High-quality dimming of 1...100 % by amplitude dimming
- DALI-2 certified incl. Parts 251, 252, 253
- Easy to use in corridors and restrooms because of three-level Corridor function
- Touch DIM application: easy to control via pushbutton or sensor





Product family features

- Supply voltage: 220...240 V

– Line frequency: 0 Hz | 50 Hz | 60 Hz

Line voltage: 198...264 VLifetime: up to 100,000 hType of protection: IP20

- Integrated cable clamp for luminaire and independent installation

Technical data

Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Input volt	harr	al monic ortion	Power factor λ
OTi DALI 10/220240/700 NFC I	220240 V	0/50/60 Hz	198264 V ¹	176276	V 15 9	% ²⁾	050C095 ³⁾
Product description	Efficiency in 1	full-load	Device power loss	Inrush current	Max. ECG on circuit breaker 1 (B)	or	ax. ECG no. n circuit reaker 16 A
OTi DALI 10/220240/700 NFC I	82 % 4)		3.5 W	< 5 A ⁵⁾	80	13	30
Product description	Surge capabil Ground)	lity (L/N-	Surge capabil (L-N)	lity Nomin	al output	U-OUT (workin voltage	•
OTI DALI 10/220240/700 NFC I	2 kV		1 kV	2.545	5 V ⁶⁾	60 V	150700 mA
Product description	Default outpu	ut current	Galvanic isola primary/seco		Galvanic i DALI/mai		
OTi DALI 10/220240/700 NFC I	350 mA		SELV		Basic		
Product description	Galvanic isola DALI/output	ation	Current set		Output current tolerance		
OTi DALI 10/220240/700 NFC I	SELV		DALI / NFC		±3 %		
Product description	Output ripple (100 Hz)	current	Output PSTLI	М	Output S\	/M	Nominal output power
OTi DALI 10/220240/700 NFC I	< 2 % ⁸⁾		≤1		≤0.4		10 W ⁹⁾
Product description	Maximum ou	tput power	Networked st	andby power	Power loss in stand-by mode	_	
OTi DALI 10/220240/700 NFC I	10 W		≤0.15 W ⁴⁾		≤0.15 W		

¹⁾ Permitted voltage range

²⁾ At full load, 220...240 V, 50 Hz

 $^{^{3)}}$ Full load at 220...240 $\mathrm{V}_{\mathrm{AC}}/\mathrm{50~Hz}$

⁴⁾ at 230 V, 50 Hz

 $^{^{5)}}$ t $_{width}$ = 100 μs (measured at 50 % I $_{peak}$) $^{6)}$ Maximum 60 V

^{7) &}lt;sub>±3%</sub>

⁸⁾ Ripple / average @ 100 Hz

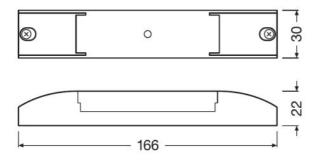
⁹⁾ Partial load 1.5...10 W

Dimensions & weight

Product description	Mounting hole spacing, length	Product weight		ole cross- tion, input e	Cable cross- section, output side	Wire preparation length, input side
OTi DALI 10/220240/700 NFC I	132.0 mm	7600 g	0.7	51.5 mm² ¹⁾	0.51.5 mm ² 1)	78 mm
Product description	Wire preparate		Length	Height	Width	
OTi DALI 10/220240/700 NFC I	78 mm		1660 mm	220 mm	300 mm	

¹⁾ Solid or flexible leads

Product line drawing



OTi DALI 10/220...240/700 NFC I

Colors & materials

Product description	Casing material
OTi DALI 10/220240/700 NFC I	Plastic

Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Temperature range at storage
OTi DALI 10/220240/700 NFC I	-25+50 °C	75 °C ¹⁾	110 °C	-40+85 °C
Product description	Permitted rel. humid during operation	ity		
OTi DALI 10/220240/700 NFC I	585 % ²⁾			

 $^{^{1)}}$ Maximum at the Tc-point

Lifespan

Product description	ECG lifetime
OTi DALI 10/220240/700 NFC I	50000 / 100000 h ¹⁾

 $[\]overset{1)}{T}_{c}$ = 75°C, 0.2% / 1,000 h failure rate / $\overset{}{T}_{c}$ = 65°C, 0.1% / 1,000 h failure rate

Additional product data

Product description	Encapsulated
OTi DALI 10/220240/700 NFC I	No

Capabilities

Product description	Dimmable	Dimming	interface	Dimming	range	Dimming method	
OTI DALI 10/220240/700 NFC I	Yes	DALI-2 / Touch DI	Touch DIM / M Sensor	1100 %		Amplitude Modula	ation
Product description	Overheating pr	otection	Overload pro	tection	Short-	circuit protection	No-load proof
OTi DALI 10/220240/700 NFC I	Automatic reve	ersible	Automatic re	versible	Autom	atic reversible	Yes
Product description	Intended for no operation	o-load	Max. cable length to lamp/LED module	Suitable for t		Type of connectio	n, input
OTi DALI 10/220240/700 NFC I	No		2.0 m ¹⁾	1/11		Push terminal	
Product description	Type of connection output side	tion,	DALI-2 Diagi	nostic Data	Progra	mming interface	
OTi DALI 10/220240/700 NFC I	Push terminal		Yes ²⁾		DALI, N	NFC	
Product description	Constant lume	n function	Suitable for emergency lighting	Control inter	face	DALI-2 Ener	gy Data
OTi DALI 10/220240/700 NFC I	Programmable		Yes	DALI-2		Yes ³⁾	

²⁾ Maximum 56 days/year at 85 %

Product description	Number of channels	
OTi DALI 10/220240/700 NFC I	1	

 $^{^{1\!\!})}$ Output wires must be routed as close as possible to each other

Programming

Product description	Box programming	Tuner4TRONIC	Tuner4TRONIC Field App
OTi DALI 10/220240/700 NFC I	Yes	Yes	Yes
Product description	Programming device		
OTi DALI 10/220240/700 NFC I	DALI / NFC		

Programmable features

Product description	Operating Current	Constant Lumen	Lamp Operating Time
OTi DALI 10/220240/700 NFC I	Yes	Yes	Yes
Product description	Driver Guard	DALI Settings	Emergency Mode
OTi DALI 10/220240/700 NFC I	Yes	Yes	Yes
Product description	DALI-2 Luminaire Data	Configuration Lock	Soft Switch Off
OTi DALI 10/220240/700 NFC I	Yes ¹⁾	Yes	Yes
Product description	Dim to Dark	TouchDIM + Sensor	Corridor Functionality
OTi DALI 10/220240/700 NFC I	Yes	Yes	Yes
Product description	OEM Key		
OTi DALI 10/220240/700 NFC I	No		

¹⁾ Acc. DALI part 251

Certificates & standards

Product description	Approval marks – approval	Standards	Protection class	Type of protection
OTI DALI 10/220240/700 NFC I	ENEC / VDE-EMC / EL / CE / DALI-2	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 55015/Acc. to IEC 61547/Acc. to IEC 61000-3-2/Acc. to IEC 62384/Acc. to IEC 62386/Acc. to IEC 62386-101:Ed2/Acc. to IEC 62386-102:Ed2/Acc. to IEC 62386-207:Ed1	II	IP20

²⁾ Acc. DALI part 253

³⁾ Acc. DALI part 252

Logistical data

Product description	Commodity code
OTi DALI 10/220240/700 NFC I	85044083900

Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
OTi DALI 10/220240/700 NFC I	19-05-2023	4062172151252	Lead
Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OTi DALI 10/220240/700 NFC I	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	3b1c1ed5-2bc5-45f2- 8d54-1adf10b4b670

Application advice

For more detailed application information and graphics please see product datasheet.

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

	File
<u>Z</u>	User instruction OPTOTRONIC LED Power Supply OTi DALI 10 700 NFC
乙	Certificates OTI DALI 10 NFC I EATON 091220
大	Certificates OTI DALI 10 NFC I INOTEC 091220
大	Certificates OTI DALI NFC I CCC 2020171002003881 280121
<u>Z</u>	Certificates OT ENEC 40038447 260623
龙	Certificates OT EMC 40044675 031022
Z	Declarations of conformity OTI DALI NFC S I CE 4169161 110222

7	Declarations of conformity OTI DALI NFC S I UK DoC 4281113 110222
<u> </u>	CAD data OTI DALI 10 NFC I IGS 031220
<u></u>	CAD data OTI DALI 10 NFC I STEP 031220
<u></u>	CAD Data 2-dim OTI DALI 10 NFC I CAD2PDF 031220
<u></u>	CAD data 3-dim OTI DALI 10 NFC I CAD3PDF 031220

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.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172151252	OTi DALI 10/220240/700 NFC I	Shipping carton box 20	344 mm x 125 mm x 80 mm	3.44 dm ³	1638.00 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.

Data 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.

Disclaimer

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