

PRODUCT FAMILY DATASHEET OPTOTRONIC Intelligent Flat

– Dimmable DALI (non-isolated)



AREAS OF APPLICATION

- Linear lighting for office, education, industry, storage areas and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for luminaires of protection class I

PRODUCT FAMILY BENEFITS

- Flat housing (16 mm height) for innovative luminaire designs and applications
- Fully programmable via software (DALI Interface, NFC)
- Advanced luminaire/driver data (power, energy, operating hours...) for analytics
- Prepared for DiiA Specification Parts -251, -252 and -253
- Lifetime: up to 100,000 h (temperature at $T_c = 65^\circ\text{C}$, max. 10 % failure rate)
- High-quality dimming of 1...100 % (amplitude and/or PWM selectable by software)
- Higher quality of light thanks to < 1% output ripple current
- Very high efficiency
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

PRODUCT FAMILY FEATURES

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile DALI window driver up to 75 W due to flexible output characteristic
- Supply voltage: 220...240 V
- Available with output current range: up to 500 mA
- DALI-2 certified (Part -101,-102 and -207)
- Monitoring of luminaire operating parameters
- Constant Lumen Output (CLO)
- Non-isolated drivers

TECHNICAL DATA

Electrical data

Product description	Nominal voltage	Mains frequency	Input voltage AC	Input voltage DC	Total harmonic distortion	Power factor λ
OTi DALI 25/220...240/300 D NFCFL	220...240 V	0...60 Hz	198...264 V	176...276 V	9.50 %	> 0.95

Product description	ECG efficiency	Device power loss	Power loss in stand-by mode	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)
OTi DALI 25/220...240/300 D NFCFL	up to 90.5 %	2.0 W	<0.15 W	21 A	17	28

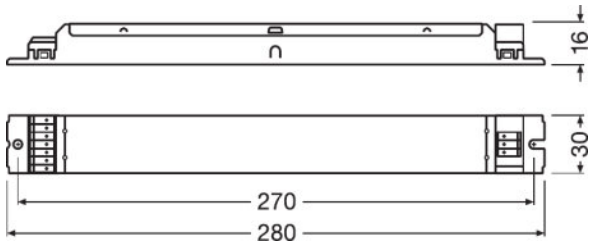
Product description	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)	Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)
OTi DALI 25/220...240/300 D NFCFL	-	2 kV	1 kV	54...240 V	54...240 V

Product description	Nominal output current	Output current tolerance	Output ripple current (100 Hz)	Nominal output power	Galvanic isolation
OTi DALI 25/220...240/300 D NFCFL	35...300 mA	± 3 %	< 1 %	25 W	Non isolated

Dimensions & weight

Product description	Length	Width	Height	Product weight
OTi DALI 25/220...240/300 D NFCFL	280.0 mm	30.0 mm	16.0 mm	205.00 g

Product line drawing



OTi DALI 25/220...240/300 D NFCFL

Colors & materials

Product description	Casing material
OTi DALI 25/220...240/300 D NFCFL	Metal

Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Permitted rel. humidity during operation
OTi DALI 25/220...240/300 D NFCFL	-25...+60 °C	75 °C	110 °C	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

Product description	ECG lifetime
OTi DALI 25/220...240/300 D NFCFL	50000 / 100000 h

Additional product data

Product description	Encapsulated
OTi DALI 25/220...240/300 D NFCFL	No

Capabilities

Product description	Dimmable	Dimming interface	Dimming range	Dimming method
OTi DALI 25/220...240/300 D NFCFL	Yes	DALI-2	0.1...100 %	DALI

Product description	Constant lumen function	Overheating protection	Overload protection
OTi DALI 25/220...240/300 D NFCFL	Yes	Yes	Yes

Product description	Short-circuit protection	No-load proof	Max. cable length to lamp/LED module	Suitable for fixtures with prot. class	Suitable for emergency lighting
OTi DALI 25/220...240/300 D NFCFL	Yes	Yes	2.0 m	I	Yes

Product description	Type of connection, output side
OTi DALI 25/220...240/300 D NFCFL	Push terminal

Certificates & standards

Product description	Approval marks – approval
OTi DALI 25/220...240/300 D NFCFL	CE / VDE-ENEC / VDE-EMC / EAC / CCC / BIS

Product description	Standards	Type of protection
OTi DALI 25/220...240/300 D NFCFL	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	IP20

Logistical data

Product description	Temperature range at storage
OTi DALI 25/220...240/300 D NFCFL	-40...+85 °C

APPLICATION ADVICE
















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

SALES AND TECHNICAL SUPPORT

Sales and Technical Support www.ledvance.com

DOWNLOAD DATA

File

	User instruction OPTOTRONIC LED Power Supply
	User instruction OPTOTRONIC LED Power Supply
	Certificates VDE ENEC Certificate 40038085
	Certificates VDE EMC Certificate 40044675 (EN)
	Certificates INOTEC Conformity declaration AM18335 OTi DALI 25 220-240 300 D NFC F L
	Certificates OT EMC 40050085 200220
	Declarations of conformity EATON(CEAG) Conformity declaration AM18335 OTi DALI 25 220-240 300 D NFC F L (EN)
	Declarations of conformity EU Declaration of Conformity 3747608
	CAD data CAD data IGS OTI DALI 25,35,75D NFC FL
	CAD data CAD data STEP OTI DALI 25,35,75D NFC FL
	CAD data OTI DALI D NFC FL IGS 090120
	CAD data OTI DALI D NFC FL STEP 090120
	CAD Data 2-dim OTI DALI D NFC FL CAD2PDF 090120
	CAD data 3-dim OTI DALI D NFC FL CAD3PDF 090120
	CAD data PDF CAD data PDF OTI DALI 25,35,75D NFC FL

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4062172020756	Shipping carton box 20	300 mm x 128 mm x 106 mm	4223.00 g	4.07 dm ³

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.