OSRAM
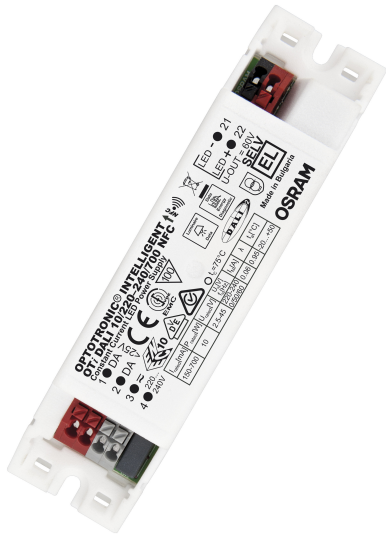
PRODUCT DATASHEET
OTi DALI 10/220…240/700 NFC

OPTOTRONIC© Intelligent – DALI NFC S | Constant Current - Indoor

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 benefits

- Versatile DALI window driver due to flexible output characteristic
- Locking and unlocking of luminaire/driver data
- 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

Product features

- Supply voltage: 220…240 V
- Line frequency: 0 Hz, 50…60 Hz
- Line voltage: 198…264 V
- According to EN 61347-1, 61347-2-13, 62384
- RI suppression according to EN 55015:2007+A1:2007/CDN
- Immunity according to EN 61547
- Type of protection: IP20

TECHNICAL DATA

Electrical data

Nominal wattage	10.00 W
Nominal output power	10 W [1]
Nominal voltage	220...240 V
Nominal output voltage	2.5...45 V [2]
Input voltage AC	198...264 V [3]
Input voltage DC	176...276 V
U-OUT (working voltage)	60 V
Nominal output current	150...700 mA [4]
Inrush current	< 5 A [5]
Output current tolerance	+/- 3 %
Output ripple current (100 Hz)	< 2 % [6]
Mains frequency	0/50/60 Hz
Total harmonic distortion	15 % [7]
Power factor λ	0.98 [8]
Device power loss	3,5 W
Max. ECG no. on circuit breaker 10 A (B)	80
Max. ECG no. on circuit breaker 16 A (B)	130
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV

[1] Partial load 1.5...10 W

[2] Maximum 60 V

[3] Permitted voltage range

[4] +/- 3 %

[5] t_{width} = 100 µs (measured at 50 % I_{peak})

[6] Ripple average at 100 Hz

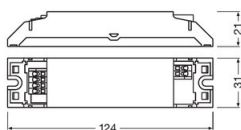[7] At full load, 220...240 V, 50 Hz / At half load, 220...240 V, 50 Hz

[8] At Pmax, 220...240 V, 50 Hz / At 50% Pmax, 220...240 V, 50 Hz

Photometrical data

Flickering metric (Pst LM)	≤1
Stroboscope effect metric (SVM)	≤0.4

Dimensions & Weight

Length	124.00 mm
Mounting hole spacing, length	115,0 mm
Width	31.00 mm
Height	21.00 mm
Cable cross-section, input side	0,2...1,5 mm² [1]
Cable cross-section, output side	0,2...1,5 mm² [1]
Wire preparation length, input side	8.0...9.1 mm
Wire preparation length, output side	8.0...9.1 mm
Product weight	58.00 g

[1] Solid or flexible leads

Colors & materials

Casing material	Plastic
Body material	Plastic

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	75 °C [1]
Max.housing temperature in case of fault	110 °C
Permitted rel. humidity during operation	5...85 % [2]

[1] Maximum at the Tc-point

[2] Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h / 100000 h [1]

[1] T_c = 75°C, 0.2% / 1,000 h failure rate / T_c = 65°C, 0.1% / 1,000 h failure rate

Capabilities

Dimmable	Yes

Dimming interface	DALI-2
Dimming range	1...100 % [1]
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
No-load proof	Yes
Short-circuit protection	Automatic reversible
Max. cable length to lamp/LED module	2,0 m
Suitable for fixtures with prot. class	I / II
Suitable for emergency lighting	Yes
Type of connection, output side	Push terminal

[1] For maximum nominal output current

Certificates & Standards

Approval marks – approval	ENEC 10 / VDE / EMC / EL / CE / DALI-2 / CCC
Standards	Acc. to EN 61347-1 / Acc. to EN 61347-2-13 / Acc. to EN 55015 / Acc. to EN 61547 / Acc. to EN 61000-3-2 / Acc. to EN 62384 / Acc. to EN 62386 / Acc. to IEC 62386-101:Ed2 / Acc. to IEC 62386-102:Ed2 / Acc. to IEC 62386-207:Ed1
Protection class	II
Type of protection	IP20
Energy efficiency class	A1

LOGISTICAL DATA

Temperature range at storage	-40...+85 °C

Energy labelling regulation data acc EU 2019/2015

Networked standby power for CLS	≤0.15 W

DOWNLOAD DATA

	Documents and certificates
PDF	User instruction
PDF	Certificates

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4062172250269	Unpacked 1		62.00 g	
4062172250276	Shipping box 20	260 mm x 116 mm x 83 mm	1.25 g	2.50 dm³

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.