OSRAM

OTi DALI 90/220...240/700 D LT2 L

OPTOTRONIC Intelligent | – Dimmable DALI

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

- Fully programmable via software (DALI Interface)
- Flexible current setting (LEDset2)
- Lifetime: up to 100,000 h (temperature at T_C = 65 °C, max. 10 % failure rate)
- High-quality dimming of 1...100 % by amplitude dimming (except 80 W versions)
- High quality of light thanks to <1% output ripple current
- Very high efficiency
- Very low standby power consumption: < 0.15 W (SELV)*, < 0.25 W (non-isolated)
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

Versatile scope of application due to OSRAM DALI Technology:

- Easy to use in corridors and restrooms because of three-level Corridor function
- Touch DIM application: easy to control via pushbutton or sensor
- Energy efficient Touch DIM operation due to automatic switch-off at sufficient residual light
- Suitable for emergency Installations (acc. to EN 60598-2-22 and IEC 61347-2-13, appendix J) thanks to DC detection (0 Hz, pulsating DC), on/off switchable
- Feedback of power consumption and operating hours (Fit for SMART GRID)
- Suitable for buildings according to EPBD/BREEAM/LEED due to automatic Constant Lumen Output setting
- Luminaire information for easy maintenance

Product family features

Product datasheet

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile DALI window driver up to 90 W due to flexible output characteristic
- Supply voltage: 220...240 V
- Available with output current range: up to 2,100 mA
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)
- SELV and non-isolated versions available
- DALI-2 certified (Part -101,-102 and -207)

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Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage AC	198...264 V [1]
Input voltage DC	176...276 V
Current set	DALI / LEDset / Programmable
Total harmonic distortion	< 10 %
Power factor λ	> 0.95 [2]
ECG efficiency	≤93 % [3]
Device power loss	9.0 W [4]
Power loss in stand-by mode	<0.25 W
Protective conductor current	<0.5 mA
Inrush current	25 A
Max. ECG no. on circuit breaker 10 A (B)	15
Max. ECG no. on circuit breaker 16 A (B)	24
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	54...240 V [5]
U-OUT (working voltage)	< 250 V
Nominal output current	250...700 mA
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 1 %
Nominal output power	13.5...90 W
Galvanic isolation	Non isolated

[1] Permitted voltage range

[2] Full load at 230 V

[3] At full load and 230 V

[4] Maximum

[5] Maximum 250 V

Dimensions & weight
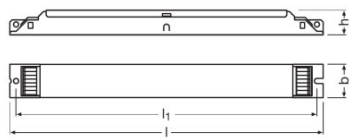
Mounting hole spacing, length	270.0 mm
Product weight	205.00 g
Cable cross-section, input side	0.5...1.5 mm²
Cable cross-section, output side	0.5...1.5 mm²
Wire preparation length, input side	8.5...9.5 mm
Wire preparation length, output side	8.5...9.5 mm

Colors & materials

Casing material	Metal

Temperatures & operating conditions

Ambient temperature range	-25...+50 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Permitted rel. humidity during operation	5...85 %

Lifespan

ECG lifetime	50000 / 100000 h [1]

[1] At maximum T_c = 75°C / 10% failure rate / At T_c = 65°C / 10% failure rate

Additional product data

Encapsulated	No

Capabilities

Programming interface	DALI
Dimmable	Yes
Dimming interface	DALI / Touch DIM / Touch DIM Sensor

Product datasheet

Dimming range	1...100 % [1]
Dimming method	Full analogue dimming
Constant lumen function	Programmable
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Max. cable length to lamp/LED module	2.0 m
Suitable for fixtures with prot. class	I
Suitable for emergency lighting	Yes
Type of connection, output side	Push terminal
Number of channels	1

[1] For maximum nominal output current

Programmable features

Operating Current	Yes
Tuning Factor	Yes
Constant Lumen	Yes
Lamp Operating Time	Yes
Thermal Protection	No
Driver Guard	Yes
DALI Settings	Yes
Emergency Mode	Yes
Luminaire Info	Yes
Configuration Lock	No
Soft Switch Off	Yes
Dim to Dark	Yes
TouchDIM + Sensor	Yes
Corridor Functionality	Yes
OEM Key	Yes

Certificates & standards

Approval marks – approval	CE / EL / ENEC 10 / VDE-EMC / CCC / RCM
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
Type of protection	IP20

Logistical data

Temperature range at storage	-25...85 °C

Product datasheet

Commodity code	850440829000

Download Data

	File
📄	Product Datasheet OTi DALI 90220-240700 D LT2 L
📄	Certificates VDE EMC Certificate 40011668
📄	Certificates VDE ENEC Certificate 40038085
📄	Declarations of conformity 727247_EC OTi
📄	Declarations of conformity EU Declaration of Conformity 3667898
📄	Declarations of conformity EATON(CEAG)-Conformity declaration AM00140_OTiDALI90_220_240_700_D_LT2_L
📄	Declarations of conformity INOTEC- Conformity declaration AM00140_OTiDALI90_220_240_700_D_LT2_L

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899494244	OTi DALI 90/220...240/700 D LT2 L	Shipping carton box 20	305 mm x 161 mm x 104 mm	5.11 dm³	4277.00 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.

Disclaimer

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