

## OTi DALI 35/220...240/400 D NFC TW L

OPTOTRONIC Intelligent Tunable White | – Dimmable DALI (non-isolated)



### Areas of application

- For Tunable White as well as for 2-channel use (e.g. direct/indirect lighting)
- 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 installation in emergency lighting systems according to EN 60598-2-22
- Suitable for luminaires of protection class I
- Perfect system match with PrevaLED Linear Tunable White

### Product family benefits

- Control of standard white or Tunable White light acc. DALI device type 8 (DT8)
- TouchDIM Tunable White integrated for use without additional LMS (planned for end of 2018)
- Fully programmable via T4T software (NFC, DALI Interface)
- Lifetime: up to 100,000 h (temperature at  $T_C = 65\text{ }^\circ\text{C}$ , max. 10 % failure rate)
- High-quality dimming of 1...100 % (amplitude and/or PWM selectable by software)
- High quality of light thanks to <1% output ripple current
- Very high efficiency
- 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 datasheet

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### Product family features

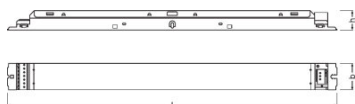
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile DALI window driver up to 75 W due to flexible output characteristic
- Supply voltage: 220...240 V
- Usable as DT6 (2-channel) or DT8 (Tunable White) driver
- Available with output current range: up to 700 mA
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)
- Non-isolated drivers
- DALI-2 certified (Part -101,-102 and -207)

## Technical data

### Electrical data

Nominal input voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage AC	198...264 V
Input voltage DC	176...276 V
Current set	DALI / NFC / Programmable
Total harmonic distortion	< 10 %
Power factor $\lambda$	> 0.95
ECG efficiency	up to 90 %
Device power loss	3.0 W
Power loss in stand-by mode	<0.2 W
Inrush current	17 A
Max. ECG no. on circuit breaker 10 A (B)	19
Max. ECG no. on circuit breaker 16 A (B)	28
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	45...240 V
U-OUT (working voltage)	< 250 V
Nominal output current	75...400 mA
Output current tolerance	$\pm 3$ %
Output ripple current (100 Hz)	< 1 %
Nominal output power	4...38 W
Galvanic isolation	Non isolated

### Dimensions & weight



Mounting hole spacing, length	350.0 mm
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## Product datasheet

Product weight	235.00 g
Cable cross-section, input side	0.5...1.5 mm <sup>2</sup>
Cable cross-section, output side	0.5...1.5 mm <sup>2</sup>
Wire preparation length, input side	8.5...9.5 mm
Wire preparation length, output side	8.5...9.5 mm
Length	360.0 mm
Width	30.0 mm
Height	21.0 mm

### Colors & materials

Casing material	Metal
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### 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
Temperature range at storage	-40...85 °C
Permitted rel. humidity during operation	5...85 % <sup>1)</sup>

<sup>1)</sup> Maximum 56 days/year at 85 %

### Lifespan

ECG lifetime	50000 / 100000 h <sup>1)</sup>
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<sup>1)</sup> At maximum  $T_c = 75^\circ\text{C}$  / 10% failure rate / At  $T_c = 65^\circ\text{C}$  / 10% failure rate

### Capabilities

Programming interface	DALI, NFC
Dimmable	Yes
Dimming interface	DALI / Touch DIM / Touch DIM Sensor
Dimming range	1...100 %
Dimming method	DALI / TouchDIM / TouchDIM Sensor
Constant lumen function	Yes
Overheating protection	Yes
Overload protection	Yes
Short-circuit protection	Yes
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

## Product datasheet

Number of channels	2
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### 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	Yes
Soft Switch Off	Yes
Dim to Dark	Yes
TouchDIM + Sensor	Yes
Corridor Functionality	Yes
Tunable White CCT	Yes
Tunable White High precision	Yes





### Certificates & standards

Approval marks – approval	CE / EL / VDE-ENEC / VDE-EMC / CCC / RCM
Standards	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547
Type of protection	IP20

### Logistical data






Commodity code	850440829000
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### Download Data

File	
	User instruction OPTOTRONIC LED Power Supply
	Certificates VDE EMC Certificate 40011668
	Certificates VDE ENEC Certificate 40038085
	Declarations of conformity EU Declaration of Conformity 3633314

## Product datasheet

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	Declarations of conformity EATON(CEAG) Conformity declaration AM28017 OTi DALI35 220-240 400 D NFC TW L
	Declarations of conformity INOTEC Conformity declaration AM28017 OTi DALI35 220-240 400 D NFC TW L
	CAD data CAD data IGS OTI DALI 35,75D NFC TW L
	CAD data CAD data STEP OTI DALI 35,75D NFC TW L
	CAD data PDF CAD data PDF OTI DALI 35,75D NFC TW L

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## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899990302	OTi DALI 35/220...240/400 D NFC TW L	Shipping carton box 20	385 mm x 160 mm x 100 mm	6.16 dm <sup>3</sup>	4871.00 g

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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.

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## Disclaimer

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