

## 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 family datasheet

---

### 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)

## Product family datasheet

### Technical data

#### Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Input voltage DC	Current set
OTi DALI 35/220...240/400 D NFC TW L	220...240 V	50...60 Hz	198...264 V	176...276 V	DALI / NFC / Programmable
OTi DALI 75/220...240/700 D NFC TW L	220...240 V	50...60 Hz	198...264 V	176...276 V	DALI / NFC / Programmable

Product description	Total harmonic distortion	Power factor $\lambda$	ECG efficiency	Device power loss	Power loss in stand-by mode	Inrush current
OTi DALI 35/220...240/400 D NFC TW L	< 10 %	> 0.95	up to 90 %	3.0 W	<0.2 W	17 A
OTi DALI 75/220...240/700 D NFC TW L	< 10 %	> 0.95	up to 91 %	6.0 W	<0.2 W	23 A

Product description	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)
OTi DALI 35/220...240/400 D NFC TW L	19	28	-	2 kV
OTi DALI 75/220...240/700 D NFC TW L	13	19	-	2 kV

Product description	Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)	Nominal output current	Output current tolerance
OTi DALI 35/220...240/400 D NFC TW L	1 kV	45...240 V	< 250 V	75...400 mA	±3 %
OTi DALI 75/220...240/700 D NFC TW L	1 kV	50...240 V	< 250 V	150...700 mA	±3 %

Product description	Output ripple current (100 Hz)	Nominal output power	Galvanic isolation
OTi DALI 35/220...240/400 D NFC TW L	< 1 %	4...38 W	Non isolated
OTi DALI 75/220...240/700 D NFC TW L	< 1 %	8.1...75 W	Non isolated

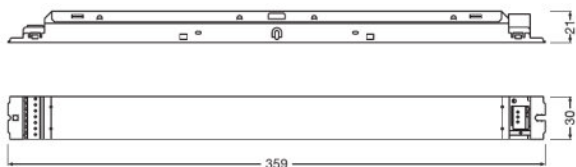
## Product family datasheet

### Dimensions & weight

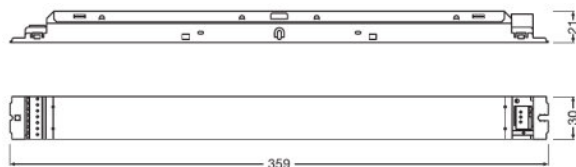
Product description	Mounting hole spacing, length	Product weight	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side
OTi DALI 35/220...240/400 D NFC TW L	350.0 mm	235.00 g	0.5...1.5 mm <sup>2</sup>	0.5...1.5 mm <sup>2</sup>	8.5...9.5 mm
OTi DALI 75/220...240/700 D NFC TW L	350.0 mm	260.00 g	0.5...1.5 mm <sup>2</sup>	0.5...1.5 mm <sup>2</sup>	8.5...9.5 mm

Product description	Wire preparation length, output side	Length	Width	Height
OTi DALI 35/220...240/400 D NFC TW L	8.5...9.5 mm	360.0 mm	30.0 mm	21.0 mm
OTi DALI 75/220...240/700 D NFC TW L	8.5...9.5 mm	360.0 mm	30.0 mm	21.0 mm

### Product line drawing



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



OTi DALI 75/220...240/700 D NFC TW L

## Product family datasheet

### Colors & materials

Product description	Casing material
OTi DALI 35/220...240/400 D NFC TW L	Metal
OTi DALI 75/220...240/700 D NFC TW L	Metal

### 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 35/220...240/400 D NFC TW L	-25...+50 °C	75 °C	110 °C	-40...85 °C
OTi DALI 75/220...240/700 D NFC TW L	-25...+50 °C	75 °C	110 °C	-40...85 °C

Product description	Permitted rel. humidity during operation
OTi DALI 35/220...240/400 D NFC TW L	5...85 % <sup>1)</sup>
OTi DALI 75/220...240/700 D NFC TW L	5...85 % <sup>1)</sup>

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

### Lifespan

Product description	ECG lifetime
OTi DALI 35/220...240/400 D NFC TW L	50000 / 100000 h <sup>1)</sup>
OTi DALI 75/220...240/700 D NFC TW L	50000 / 100000 h <sup>1)</sup>

<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

Product description	Programming interface	Dimmable	Dimming interface	Dimming range
OTi DALI 35/220...240/400 D NFC TW L	DALI, NFC	Yes	DALI / Touch DIM / Touch DIM Sensor	1...100 %
OTi DALI 75/220...240/700 D NFC TW L	DALI, NFC	Yes	DALI / Touch DIM / Touch DIM Sensor	1...100 %

Product description	Dimming method	Constant lumen function	Overheating protection
OTi DALI 35/220...240/400 D NFC TW L	DALI / TouchDIM / TouchDIM Sensor	Yes	Yes
OTi DALI 75/220...240/700 D NFC TW L	DALI / TouchDIM / TouchDIM Sensor	Yes	Yes

## Product family datasheet

Product description	Overload protection	Short-circuit protection	No-load proof	Max. cable length to lamp/LED module
OTi DALI 35/220...240/400 D NFC TW L	Yes	Yes	Yes	2.0 m
OTi DALI 75/220...240/700 D NFC TW L	Yes	Yes	Yes	2.0 m

Product description	Suitable for fixtures with prot. class	Suitable for emergency lighting	Type of connection, output side	Number of channels
OTi DALI 35/220...240/400 D NFC TW L	I	Yes	Push terminal	2
OTi DALI 75/220...240/700 D NFC TW L	I	Yes		2

### Programmable features

Product description	Operating Current	Tuning Factor	Constant Lumen
OTi DALI 35/220...240/400 D NFC TW L	Yes	Yes	Yes
OTi DALI 75/220...240/700 D NFC TW L	Yes	Yes	Yes

Product description	Lamp Operating Time	Thermal Protection	Driver Guard
OTi DALI 35/220...240/400 D NFC TW L	Yes	No	Yes
OTi DALI 75/220...240/700 D NFC TW L	Yes	No	Yes

Product description	DALI Settings	Emergency Mode	Luminaire Info
OTi DALI 35/220...240/400 D NFC TW L	Yes	Yes	Yes
OTi DALI 75/220...240/700 D NFC TW L	Yes	Yes	Yes

Product description	Configuration Lock	Soft Switch Off	Dim to Dark
OTi DALI 35/220...240/400 D NFC TW L	Yes	Yes	Yes
OTi DALI 75/220...240/700 D NFC TW L	Yes	Yes	Yes

Product description	TouchDIM + Sensor	Corridor Functionality	Tunable White CCT
OTi DALI 35/220...240/400 D NFC TW L	Yes	Yes	Yes
OTi DALI 75/220...240/700 D NFC TW L	Yes	Yes	Yes

Product description	Tunable White High precision
OTi DALI 35/220...240/400 D NFC TW L	Yes

## Product family datasheet

Product description	Tunable White High precision
OTi DALI 75/220...240/700 D NFC TW L	Yes

### Certificates & standards

Product description	Approval marks – approval
OTi DALI 35/220...240/400 D NFC TW L	CE / EL / VDE-ENEC / VDE-EMC / CCC / RCM
OTi DALI 75/220...240/700 D NFC TW L	CE / EL / VDE-ENEC / VDE-EMC / CCC / RCM

Product description	Standards	Type of protection
OTi DALI 35/220...240/400 D NFC TW L	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	IP20
OTi DALI 75/220...240/700 D NFC TW L	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	IP20

### Logistical data

Product description	Commodity code
OTi DALI 35/220...240/400 D NFC TW L	850440829000
OTi DALI 75/220...240/700 D NFC TW L	850440829000



### Application advice

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










### Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

### Download Data

File
 User instruction OPTOTRONIC LED Power Supply
 Certificates VDE EMC Certificate 40011668

## Product family datasheet

	Certificates VDE ENEC Certificate 40038085
	Declarations of conformity EU Declaration of Conformity 3633314
	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
	Declarations of conformity EATON(CEAG) Conformity declaration AM28015 OTI DALI75 220 240 700 D NFC TW L
	Declarations of conformity INOTEC Conformity declaration AM28015 OTI DALI75 220 240 700 D NFC TW L

### 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
4052899990326	OTi DALI 75/220...240/700 D NFC TW L	Shipping carton box 20	385 mm x 160 mm x 100 mm	6.16 dm <sup>3</sup>	5371.00 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.