The trusted value of OSRAM Digital Systems continues with Inventronics Global – where experience meets innovation.

# OTi DALI 75/220-240/1A4 NFC TW L

OPTOTRONIC Intelligent Tunable White – DALI (SELV) | Linear constant current LED driver – Dimmable



### 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 1,400 mA
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)
- SELV driver

### 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
- Fully programmable via T4T software (NFC, DALI Interface)
- Lifetime: up to 100,000 h (temperature at  $T_c = 65$  °C, max. 10 % failure rate)
- High-quality dimming of 1...100 %
- High quality of light thanks to <1% output ripple current
- Very high efficiency
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection



# 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

### Technical data

### **Electrical data**

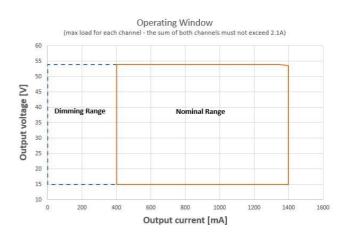
Nominal input voltage	220240 V	
Mains frequency	0/50/60 Hz	
Input voltage AC	198264 V	
Input voltage DC	176276 V	
Total harmonic distortion	< 10 %	
Power factor λ	0.57C0.95	
Efficiency in full-load	90 % 1)	
Device power loss	6.0 W	
Networked standby power	<0.20 W <sup>1)</sup>	
Inrush current	23 A	
Max. ECG no. on circuit breaker 10 A (B)	13	
Max. ECG no. on circuit breaker 16 A (B)	20	
Surge capability (L-N)	1 kV	
Surge capability (L/N-Ground)	2 kV	
Protective conductor current	0.35 mA	
Nominal output voltage	1554 V	
U-OUT (working voltage)	< 60 V	
Nominal output current	4001400 mA	
Default output current	400 mA	
Output current tolerance	±3 %	
Output ripple current (100 Hz)	< 1 %	
Output PSTLM	≤1	
Output SVM	≤0.4	
Nominal output power	8.075 W	
Maximum output power	75 W	

<sup>1)</sup> at 230 V, 50 Hz

### Typical Power Factor v Load

# Typical Power-Factor vs load (Vf: 35V) 1 0,98 0,96 0,94 0,92 0,9 0,88 15 25 35 45 55 65 75 Output Power [W]

### **Operating Window**

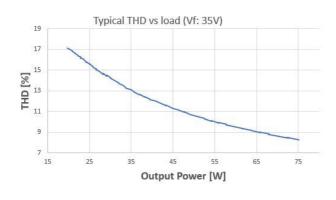


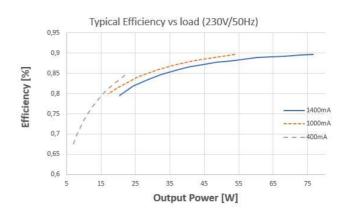
OTI DALI 75 NFC TW L Typical Power Factor vs. Load

Typical THD v Load

OTI DALI 75 NFC TW L Operating Window

Typical Efficiency v Load 230 V 50 Hz



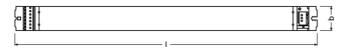


OTI DALI 75 NFC TW L Typical THD Vs Load

OTI DALI 75 NFC TW L Typical Efficiency vs. Load (230 V / 50 Hz)

### Dimensions & weight





Product weight	300.00 g	
Length	360.0 mm	
Width	30.0 mm	
Height	21.0 mm	
Mounting hole spacing, length	350.0 mm	
Cable cross-section, input side	0.51.5 mm²	
Cable cross-section, output side	0.51.5 mm²	
Wire preparation length, input side	8.59.5 mm	
Wire preparation length, output side	8.59.5 mm	

### **Colors & materials**

Casing material	Metal
Odding material	Wictal

# 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	585 % <sup>1)</sup>

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



Lifespan		
ECG lifetime	50000 h / 100000 h	
Additional product data		
Encapsulated	No	
Capabilities		
Programming interface	DALI, NFC	
Control interface	DALI	
Dimmable	Yes	
Dimming interface	DALI-2 / Corridor / Touch DIM / Touch DIM Sensor	
Dimming range	1100 %	
Dimming method	Full analogue dimming / AM/PWM selectable	
DALI-2 Diagnostic Data	No	
DALI-2 Energy Data	No	
Constant lumen function	Programmable	
Max. cable length to lamp/LED module	2.0 m <sup>1)</sup>	
Suitable for fixtures with prot. class	I	
Suitable for emergency lighting	Yes	

Push terminal

Push terminal

Automatic reversible

Automatic reversible

Automatic reversible

2

No

Yes

Type of connection, input side

**Number of channels** 

Overload protection

No-load proof

Overheating protection

**Short-circuit protection** 

Type of connection, output side

Intended for no-load operation

<sup>1)</sup> Output wires must be routed as close as possible to each other

### **Programming**

Programming device	DALI magic / NFC Scanner	
Tuner4TRONIC	Yes	
Tuner4TRONIC Field App	No	
Box programming	Yes	

### **Programmable features**

DALI Settings	Yes
DALI-2 Luminaire Data	No
TouchDIM + Sensor	Yes
Corridor Functionality	Yes
Dim to Dark	Yes
Soft Switch Off	Yes
Tuning Factor	Yes
Tunable White CCT	Yes
Driver Guard	Yes
Emergency Mode	Yes

### Certificates & standards

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

## Logistical data

Commodity code	85044083900

### **Environmental information**

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration 30-07-2025	
Primary Article Identifier	4062172092982   6937186112330
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	



# Ecodesign regulation information:

Intended for use with LED modules.

The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.



- Electrical connections between the two output channels are not allowed.



### **Download Data**

File		
Certificates	PDF	►OTI DALI 75 NFC TW L EATON AM32493 220620
Certificates	PDF	►OTI DALI 75 NFC TW L INOTEC AM32493 220620
Certificates	PDF	►OT ENEC 40038447 270224
CAD data 3-dim	Compressed	►OTI DALI NFC TW L CAD3PDF 020320
CAD data 2-dim	Compressed	►OTI DALI NFC TW L CAD2PDF 020320
CAD data	Compressed	►OTI DALI NFC TW L IGS 020320
CAD data	Compressed	►OTI DALI NFC TW L STEP 020320
Mandatory Publications	PDF	►OTi DALI NFC TW L CE 4222044 07 181224
Mandatory Publications	PDF	►OTI DALI NFC TW L UK DoC 4281073 040923
User instruction	PDF	►UI OTI DALI NFC TW L



# **Logistical Data**

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172092982 OSRAM	OTi DALI 75/220-240/1A4 NFC TW L	Shipping carton box 20 Pieces	385 x 160 x 100 mm	6.16 dm³	308.70 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

# **Accessories Optional**

Product description	Accessory name	Accessory code
OTi DALI 75/220-240/1A4 NFC TW L	PRH101 -USB	▶6977078996938
OTi DALI 75/220-240/1A4 NFC TW L	PRH101 -USB	▶6937186112354
OTi DALI 75/220-240/1A4 NFC TW L	CPR30+	▶6977078996945
OTi DALI 75/220-240/1A4 NFC TW L	CPR30+	▶6937186112378

### Disclaimer

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