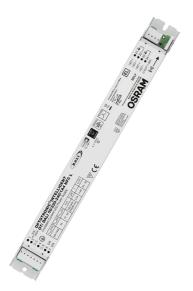


# PRODUCT DATASHEET OTi DALI 80/220...240/2A1 NFC L

OPTOTRONIC Intelligent - DALI NFC (SELV) | Constant Current - Indoor



#### 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 benefits**

- Fully programmable via software (DALI Interface, NFC)
- Advanced luminaire/driver data (power, energy, operating hours...) for analytics
- DALI-2 certified incl. Parts 251, 252, 253
- Lifetime: up to 100,000 h (temperature at Tc = 65 °C, max. 10 % failure rate)
- High-quality dimming of 1...100 % by amplitude dimming
- Higher quality of light thanks to < 3 % output ripple current
- Very high efficiency
- Very low standby power consumption:  $< 0.15 \ \text{W}$
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

#### **Product features**

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile DALI window driver up to 80 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)

#### **TECHNICAL DATA**

#### Electrical data

Nominal wattage	80.00 W
Nominal output power	3280 W
Nominal voltage	220240 V
Nominal output voltage	2054 V
Input voltage range	220240 V
Input voltage AC	198264 V
Input voltage DC	176276 V
U-OUT (working voltage)	< 60 V
Nominal output current	6002100 mA
Inrush current	≤30 A
Output current tolerance	±3 %
Output ripple current (100 Hz)	≤ 3 %
Mains frequency	0/50/60 Hz
Total harmonic distortion	≤ 10 %
Power factor $\lambda$	≥0.95
ECG efficiency	91 % <sup>1)</sup>
Device power loss	8,0 W
Max. ECG no. on circuit breaker 10 A (C)	
Max. ECG no. on circuit breaker 16 A (C)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Galvanic isolation	SELV
Flickering metric (Pst LM)	≤1

1) at 230 V, 50 Hz

#### Photometrical data

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

## **Dimensions & Weight**

Length	360 mm
Mounting hole spacing, length	350,0 mm
Width	30.00 mm
Height	21.00 mm
Cable cross-section, input side	0.51.5 mm <sup>2</sup>
Cable cross-section, output side	0.51.5 mm <sup>2</sup>

Wire preparation length, input side	8.09.0 mm
Wire preparation length, output side	8.09.0 mm
Conductor cross section	0.51.5 mm <sup>2</sup>
Product weight	270.00 g

## Colors & materials

Casing material	Metal
Body 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	585 % <sup>1)</sup>

1) Maximum 56 days/year at 85 %

#### Lifespan

ECG lifetime	100000 h / 50000 h
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## Capabilities

Dimmable	Yes	
Dimming interface	DALI-2 / Touch DIM / Touch DIM Sensor	
Dimming range	1100 %	
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 <sup>1)</sup>	
Suitable for fixtures with prot. class	1	
Type of connection, output side	Push terminal	

1) Output wires must be routed as close as possible to each other

#### Certificates & Standards

Approval marks – approval	CE / EL / VDE-ENEC / EAC / CCC / BIS / RCM	
Standards	Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 / Acc. to IEC 62386 / Acc. to IEC 61000-3-2 / Acc. to IEC 61000-3-3 / Acc. to IEC 61347	
Protection class	1	
Type of protection	IP20	

## LOGISTICAL DATA

Temperature range at storage	-40+85 °C
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#### Energy labelling regulation data acc EU 2019/2015

Networked standby power for CLS

≤0.19 W

## DOWNLOAD DATA

	Documents and certificates	Document name		
PDF	User instruction / safety instructions	OTI DALI 80 NFC L		
POF	Declarations of conformity	EU declaration OTI DALI 35, 80W		
POF	Declarations of conformity	UK declaration OTI DALI 35, 80W		
PDF	Certificates	VDE Certificate		
	CAD/BIM files	Document name		
ZIP	CAD data 3D PDF	OTI DALI 80 NFC L 3DPDF		

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4062172238656	Unpacked 1		297.00 g	
4062172238663	Shipping box 20	385 mm x 160 mm x 100 mm	5574.00 g	6.16 dm <sup>3</sup>

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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