

## OT WI 50/220-240/1A4 NFC CA L

OPTOTRONIC Wireless Intelligent – Casambi NFC L (SELV) | Linear constant current LED driver – Dimmable

### Product family features

- CRP Casambi Ready Product
- Supply voltage: 220...240 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Lifetime: up to 100,000 h
- Type of protection: IP20
- SELV driver



### Product family benefits

- Versatile Casambi window driver up to 80 W and 750 mA
- Fully programmable via software (NFC)
- Very high efficiency
- High-quality dimming of 1...100 %
- Higher quality of light thanks to < 1% output ripple current
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

### Areas of application

- Linear lighting for office, education, hospitality and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for indoor SELV installations
- Suitable for luminaires of protection class I

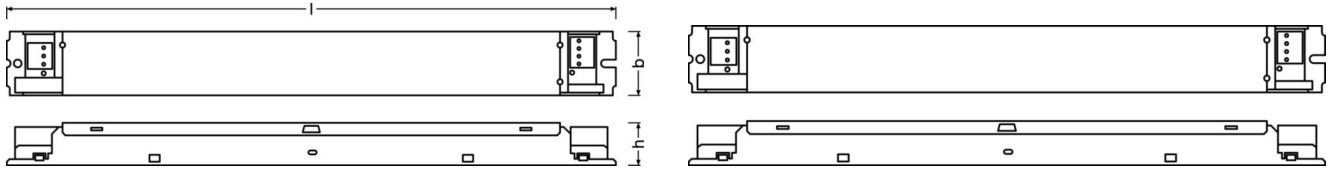
### Technical data

#### Electrical data

Max. ECG no. on circuit breaker 10 A (B)	12
Max. ECG no. on circuit breaker 16 A (B)	20
Maximum output power	50 W
Nominal output current	400...1400 mA
Nominal output power	15...54 W
Nominal output voltage	20...54 V
Nominal input voltage	220...240 V
Input voltage AC	198...264 V
Input voltage DC	176...276 V
Device power loss	5.0 W
Efficiency in full-load	90 %
Galvanic isolation primary/secondary	SELV
Inrush current	≤ 21 A
Networked standby power	<0.20 W <sup>1)</sup>
Power factor λ	0.72C...0.98
Mains frequency	0/50/60 Hz
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
U-OUT (working voltage)	< 60 V
Current set	NFC / Programmable
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 3 %
Protective conductor current	<0.5 mA
Radio frequency	2.4 GHz
Total harmonic distortion	< 10 %
Wireless protocol	Casambi Evolution
Wireless range	up to 10m
Default output current	400 mA

1) at 230 V, 50 Hz

## Dimensions & weight



Product weight	220.00 g
Length	280.0 mm
Height	21.0 mm
Width	30.0 mm
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>
Mounting hole spacing, length	270.0 mm
Wire preparation length, input side	8.0...9.0 mm
Wire preparation length, output side	8.0...9.0 mm

## Colors & materials

Casing material	Metal
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## Temperatures & operating conditions

Ambient temperature range	-25...+50 °C
Max.housing temperature in case of fault	110 °C
Maximum temperature at tc test point	75 °C
Permitted rel. humidity during operation	5...85 % <sup>1)</sup>
Temperature range at storage	-40...+85 °C

1) Maximum 56 days/year at 85 %

## Lifespan

ECG lifetime	100000 h / 50000 h
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## Additional product data

Encapsulated	No
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## Capabilities

Max. cable length to lamp/LED module	2.0 m <sup>1)</sup>
Number of channels	1
Dimmable	J
Dimming interface	Casambi
Dimming method	Full analogue dimming
Dimming range	1...100 %
Overload protection	Automatic reversible
Overheating protection	Automatic reversible
Short-circuit protection	Automatic reversible
Suitable for through-wiring	No
Suitable for emergency lighting	Yes
Suitable for fixtures with prot. class	I
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Constant lumen function	Yes
No-load proof	Yes
Programming interface	NFC

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

### Programming

Box programming	Yes
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### Programmable features

Dim to Dark	Yes
Configuration Lock	Yes
DALI-2 Luminaire Data	No
Driver Guard	Yes
Emergency Mode	Yes
Soft Switch Off	Yes

### Certificates & standards

Type of protection	IP20
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
Approval marks – approval	BIS / CCC / CE / EL / RCM / ENEC

### Logistical data

Commodity code	85044095900
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### 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.

### Download Data

File		
Certificates	PDF	▶ OT ENEC 40038085 230824
Certificates	PDF	▶ OT ENEC 40038447 270224
CAD data 3-dim	Compressed	▶ OT WI 35 50 NFC CA BL L CAD3PDF 140722
CAD data	Compressed	▶ OT WI 35 50 NFC CA BL L IGS 140722
CAD data	Compressed	▶ OT WI 35 50 NFC CA BL L STEP 140722
CAD data PDF	Compressed	▶ OT WI 35 50 NFC CA BL L CAD2PDF 140722
Mandatory Publications	PDF	▶ OT WI NFC L CE 4423276 03 160523
Mandatory Publications	PDF	▶ OT WI NFC L UK DoC 4281112 01 060923
User instruction	PDF	▶ OPTOTRONIC LED Power Supply



## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172311229	OT WI 50/220-240/1A4 NFC CA L	Shipping carton box 20 Pieces	303 x 159 x 105 mm	5.06 dm <sup>3</sup>	127.00 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.