OT WI 50/220-240/1A4 NFC BL L

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

Product family features

- Qualified Bluetooth mesh enabled by Silvair
- 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 QBM 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

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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
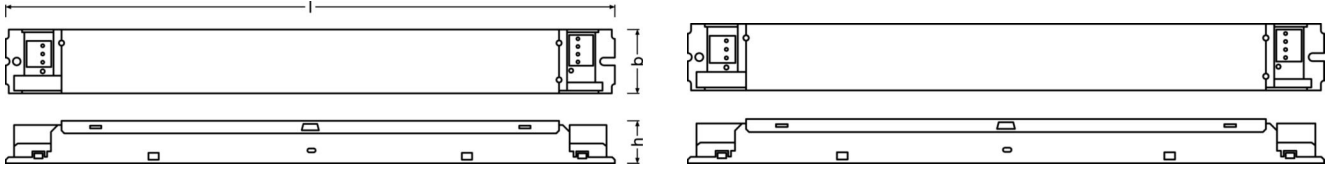- Suitable for luminaires of protection class I

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Technical data

Electrical data

Nominal input voltage	220…240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198…264 V
Input voltage DC	176…276 V
Current set	NFC / Programmable
Total harmonic distortion	< 10 %
Power factor λ	0.72C…0.98
Efficiency in full-load	90 %
Device power loss	5.0 W
Protective conductor current	<0.5 mA
Inrush current	≤ 21 A
Max. ECG no. on circuit breaker 10 A (B)	12
Max. ECG no. on circuit breaker 16 A (B)	20
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	20…54 V
U-OUT (working voltage)	< 60 V
Nominal output current	400...1400 mA
Default output current	400 mA
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 3 %
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	15…54 W
Maximum output power	50 W
Galvanic isolation	SELV
Wireless protocol	Qualified Bluetooth mesh
Wireless range	up to 10m
Radio frequency	2.4 GHz
Maximum TX power	+4 dBm
Networked standby power	<0.20 W [1]

1) at 230 V, 50 Hz

Dimensions & weight

Length	280.0 mm
Width	30.0 mm
Height	21.0 mm
Mounting hole spacing, length	270.0 mm
Cable cross-section, input side	0.5…1.5 mm²
Cable cross-section, output side	0.5…1.5 mm²
Wire preparation length, input side	8.0…9.0 mm
Wire preparation length, output side	8.0…9.0 mm
Product weight	220.00 g

Colors & materials

Casing 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
Temperature range at storage	-40…+85 °C
Permitted rel. humidity during operation	5…85 % [1]

1) Maximum 56 days/year at 85 %

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Lifespan

ECG lifetime	100000 h / 50000 h

Additional product data

Encapsulated	No

Capabilities

Programming interface	NFC
Control interface	qualified Bluetooth mesh
Dimmable	Yes
Dimming interface	Qualified Bluetooth mesh
Dimming range	1…100 %
Dimming method	Full analogue dimming
DALI-2 Diagnostic Data	No
DALI-2 Energy Data	No
Constant lumen function	Yes
Max. cable length to lamp/LED module	2.0 m [1]
Suitable for fixtures with prot. class	I
Suitable for emergency lighting	Yes
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Suitable for through-wiring	No
Number of channels	1
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
Intended for no-load operation	No
No-load proof	Yes

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

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Programming

Programming device	DALI magic / NFC Scanner
Tuner4TRONIC	Yes
Tuner4TRONIC Field App	Yes
Box programming	Yes

Programmable features

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

Certificates & standards

Approval marks – approval	BIS / CCC / CE / EL / RCM / ENEC
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
Protection class	1

Logistical data

Commodity code	85044095900

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	30-05-2024
Primary Article Identifier	4062172311243
Declaration No. in SCIP database	In work

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Download Data

File		
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

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.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172311243	OT WI 50/220-240/1A4 NFC BL L	Shipping carton box 20 Pieces	303 x 159 x 105 mm	5.06 dm³	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.