

OT WI 100/220-240/750 D NFC BL L

OPTOTRONIC Wireless Intelligent – QBM NFC L (non-isolated) | 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
- Line voltage: 198...264 V
- Lifetime: up to 100,000 h
- Type of protection: IP20
- Non-isolated drivers



Product family benefits

- Versatile QBM window driver up to 100 W and 750 mA
- Fully programmable via software (NFC)
- Very high efficiency
- High-quality dimming of 1...100 % (amplitude and/or PWM selectable by software)
- 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, industry, storage areas and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for indoor non-isolated installations
- Suitable for luminaires of protection class I

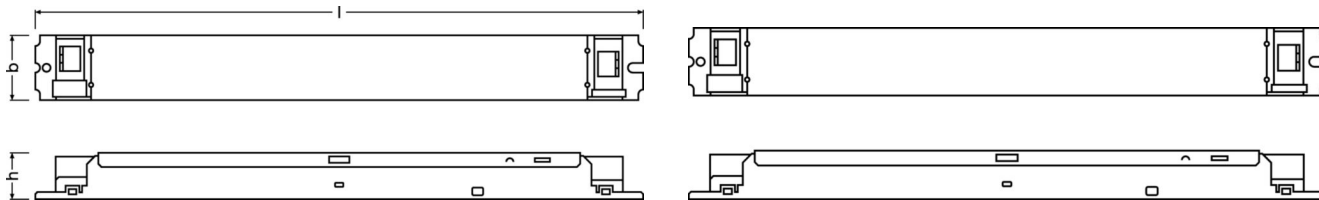
Technical data

Electrical data

Max. ECG no. on circuit breaker 10 A (B)	13
Max. ECG no. on circuit breaker 16 A (B)	21
Maximum output power	100 W
Nominal output current	100...750 mA
Nominal output power	5.4...100 W
Nominal output voltage	54...260 V
Nominal input voltage	220...240 V
Input voltage AC	198...264 V
Input voltage DC	176...276 V
Efficiency in full-load	94 %
Inrush current	≤ 36 A
Networked standby power	0.30 W ¹⁾
Power factor λ	0.39C...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)	< 270 V
Current set	NFC
Maximum TX power	+4 dBm
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 1 %
Total harmonic distortion	≤ 10 %
Default output current	100 mA

1) at 230 V, 50 Hz

Dimensions & weight



Product weight	212.00 g
Length	280.0 mm
Height	21.0 mm
Width	30.0 mm
Cable cross-section, input side	0.5...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
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 % ¹⁾
Temperature range at storage	-40...+85 °C

1) Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	100000 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 ¹⁾
Number of channels	1
Dimmable	Yes
Dimming interface	Qualified Bluetooth mesh
Dimming method	Amplitude Modulation
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
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

DALI-2 Luminaire Data	not relevant
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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	CE / VDE-ENEC / RCM / CCC / BIS / EL

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
CAD data 2-dim	Compressed	▶OT WI D NFC CA BL L CAD2PDF 130722
CAD data 3-dim	Compressed	▶OT WI D NFC CA BL L CAD3PDF 130722
CAD data	Compressed	▶OT WI D NFC CA BL L IGS 130722
CAD data	Compressed	▶OT WI D NFC CA BL L STEP 130722
Mandatory Publications	PDF	▶OT WI D NFC L CE 4378529 05 300823
Mandatory Publications	PDF	▶OT WI D NFC L UK DoC 4378531 02 220923
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
4062172267410	OT WI 100/220-240/750 D NFC BL L	Shipping carton box 20 Pieces	303 x 159 x 105 mm	5.06 dm ³	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.