

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

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
Total harmonic distortion	≤ 10 %
Power factor λ	0.39C...0.98
Efficiency in full-load	94 %
Inrush current	≤ 36 A
Max. ECG no. on circuit breaker 10 A (B)	13
Max. ECG no. on circuit breaker 10 A (C)	-
Max. ECG no. on circuit breaker 16 A (B)	21
Max. ECG no. on circuit breaker 16 A (C)	-
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	54...260 V
U-OUT (working voltage)	< 270 V
Nominal output current	100...750 mA
Default output current	100 mA
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 1 %
Output PSTLM	<1
Output SVM	<0.4
Nominal output power	5.4...100 W
Maximum output power	100 W
Galvanic isolation	Non isolated
Galvanic isolation primary/secondary	-
Networked standby power	<0.30 W ¹⁾

¹⁾ at 230 V, 50 Hz

Dimensions & weight



Mounting hole spacing, length	270.0 mm
Product weight	212.00 g
Cable cross-section, input side	0.5...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	8.0...9.0 mm
Wire preparation length, output side	8.0...9.0 mm
Length	280.0 mm
Width	30.0 mm
Height	21.0 mm

Colors & materials

Casing material	Metal
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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 %

Lifespan

ECG lifetime	100000 h
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Additional product data

Encapsulated	No
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Capabilities

Programming interface	NFC
Dimmable	Yes
Dimming interface	Qualified Bluetooth mesh
Dimming range	1...100 %
Dimming method	Amplitude Modulation
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Intended for no-load operation	No
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
Control interface	qualified Bluetooth mesh
Number of channels	1

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

Programming

Programming device	FEIG / NFC Programmer
Tuner4TRONIC	Yes
Tuner4TRONIC Field App	Yes
Box programming	Yes

Certificates & standards

Approval marks – approval	CE / VDE-ENEC / RCM / CCC / BIS / EL
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	I

Logistical data







Commodity code	85044095900
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Environmental information

Product datasheet

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	10-10-2023
Primary Article Identifier	4062172267410
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	be3ac427-cd23-419e-9da9-cf325d8bf34c

Download Data

File	
	User instruction OPTOTRONIC LED Power Supply
	Certificates OT ENEC 40038085 010322
	CAD data OT WI D NFC CA BL L IGS 130722
	CAD data OT WI D NFC CA BL L STEP 130722
	CAD Data 2-dim OT WI D NFC CA BL L CAD2PDF 130722
	CAD data 3-dim OT WI D NFC CA BL L CAD3PDF 130722

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
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Product datasheet

Logistical Data

4062172267410	OT WI 100/220...240/750 D NFC BL L	Shipping carton box 20	303 mm x 159 mm x 105 mm	5.06 dm ³	4367.00 g
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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.