

## OT WI 35/220...240/400 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	8 %
Power factor $\lambda$	$\geq 0.95$
Efficiency in full-load	92 %
Inrush current	$\leq 21$ A
Max. ECG no. on circuit breaker 10 A (B)	17
Max. ECG no. on circuit breaker 10 A (C)	-
Max. ECG no. on circuit breaker 16 A (B)	28
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...240 V
U-OUT (working voltage)	< 250 V
Nominal output current	75...400 mA
Default output current	75 mA
Output current tolerance	$\pm 3$ %
Output ripple current (100 Hz)	< 1 %
Output PSTLM	<1
Output SVM	<0.4
Nominal output power	4...38 W
Maximum output power	38 W
Galvanic isolation	Non isolated
Galvanic isolation primary/secondary	-
Networked standby power	<0.30 W <sup>1)</sup>

<sup>1)</sup> at 230 V, 50 Hz

## Dimensions & weight



<b>Mounting hole spacing, length</b>	270.0 mm
<b>Product weight</b>	170.00 g
<b>Cable cross-section, input side</b>	0.5...1.5 mm <sup>2</sup>
<b>Cable cross-section, output side</b>	0.5...1.5 mm <sup>2</sup>
<b>Wire preparation length, input side</b>	8.0...9.0 mm
<b>Wire preparation length, output side</b>	8.0...9.0 mm
<b>Length</b>	280.0 mm
<b>Width</b>	30.0 mm
<b>Height</b>	21.0 mm

## Colors & materials

<b>Casing material</b>	Metal
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## Temperatures & operating conditions

<b>Ambient temperature range</b>	-25...+60 °C
<b>Maximum temperature at tc test point</b>	75 °C
<b>Max.housing temperature in case of fault</b>	110 °C
<b>Temperature range at storage</b>	-40...+85 °C
<b>Permitted rel. humidity during operation</b>	5...85 % <sup>1)</sup>

<sup>1)</sup> Maximum 56 days/year at 85 %

## Lifespan

<b>ECG lifetime</b>	100000 h
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## Additional product data

<b>Encapsulated</b>	No
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## Capabilities

<b>Programming interface</b>	NFC
<b>Dimmable</b>	Yes
<b>Dimming interface</b>	Qualified Bluetooth mesh
<b>Dimming range</b>	1...100 %
<b>Dimming method</b>	Amplitude Modulation
<b>Overheating protection</b>	Automatic reversible
<b>Overload protection</b>	Automatic reversible
<b>Short-circuit protection</b>	Automatic reversible
<b>No-load proof</b>	Yes
<b>Intended for no-load operation</b>	No
<b>Max. cable length to lamp/LED module</b>	2.0 m <sup>1)</sup>
<b>Suitable for fixtures with prot. class</b>	I
<b>Suitable for emergency lighting</b>	Yes
<b>Type of connection, input side</b>	Push terminal
<b>Type of connection, output side</b>	Push terminal
<b>Suitable for through-wiring</b>	No
<b>Control interface</b>	qualified Bluetooth mesh
<b>Number of channels</b>	1

<sup>1)</sup> Output wires must be routed as close as possible to each other

## Programming

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

## Certificates & standards

<b>Approval marks – approval</b>	CE / VDE-ENEC / RCM / CCC / BIS / EL
<b>Standards</b>	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
<b>Type of protection</b>	IP20
<b>Protection class</b>	I

## Logistical data

<b>Commodity code</b>	850440959000
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## Environmental information

## Product datasheet

### Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Date of Declaration	14-11-2022
Primary Article Identifier	4062172267373
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	943e5963-ea3e-4fc7-8d4c-e6791199d70b

### 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

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### Logistical Data

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4062172267373	OT WI 35/220...240/400 D NFC BL L	Shipping carton box 20	303 mm x 159 mm x 105 mm	5.06 dm <sup>3</sup>	3527.00 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.

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### Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.