

## OT WI 40/220...240/1A0 NFC BL T-B

OPTOTRONIC Wireless Intelligent – QBM NFC Track | Compact constant current LED driver – Dimmable



### Product family features

- Qualified Bluetooth mesh enabled by Silvair
- Works with OSRAM Hubsense
- 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

### Product family benefits

- High quality of light thanks to low output ripple current
- Short housing for minimum distance between spotlights
- Versatile QBM window driver due to flexible output characteristic
- Easy and fast output current setting via NFC
- High-quality dimming of 1...100 % by amplitude dimming
- SELV system

### Areas of application

- Track lights
- Shops and hospitality: retail, hotels, restaurants



## Technical data

### Electrical data

Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V <sup>1)</sup>
Input voltage DC	176...276 V
Total harmonic distortion	< 10 % <sup>2)</sup>
Power factor $\lambda$	0.30C...0.95 <sup>3)</sup>
Efficiency in full-load	86 % <sup>4)</sup>
Inrush current	36 A <sup>5)</sup>
Max. ECG no. on circuit breaker 10 A (B)	47
Max. ECG no. on circuit breaker 16 A (B)	76
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	18...42 V <sup>6)</sup>
U-OUT (working voltage)	60 V
Nominal output current	150...1050 mA <sup>7)</sup>
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 % <sup>8)</sup>
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	2.7...40 W
Maximum output power	40 W <sup>9)</sup>
Galvanic isolation primary/secondary	SELV
Maximum TX power	+4 dBm
Current set	NFC
Radio frequency	2.4 GHz
Wireless protocol	Qualified Bluetooth mesh
Wireless range	10 m line of sight
Default output current	500 mA
Networked standby power	≤0.30 W <sup>4)</sup>

<sup>1)</sup> Permitted voltage range

<sup>2)</sup> At full load, 220...240 V, 50 Hz / see graphs

<sup>3)</sup> Full load at 230 V/50 Hz

<sup>4)</sup> at 230 V, 50 Hz

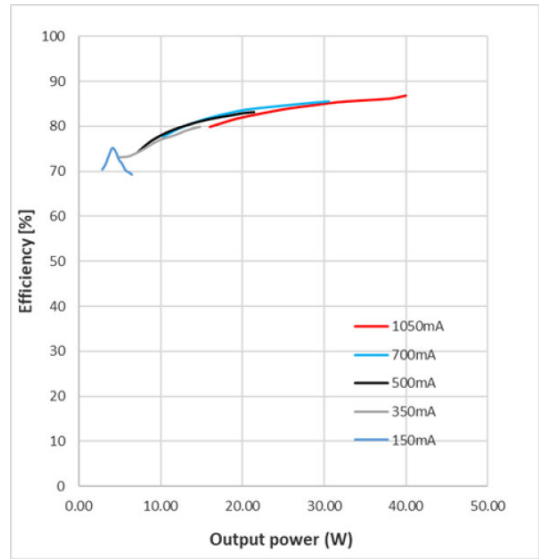
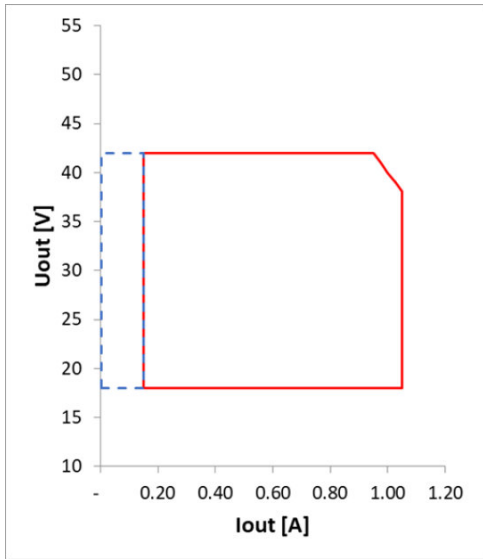
<sup>5)</sup>  $t_{width} = 7 \mu s$  (measured at 50 %  $I_{peak}$ )

<sup>6)</sup> Maximum 60 V

<sup>7)</sup> ±5%

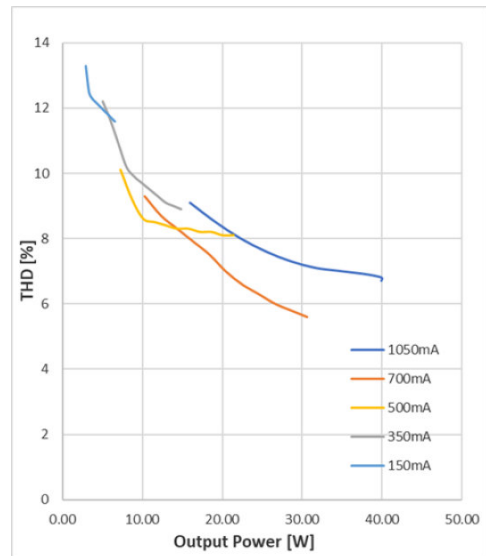
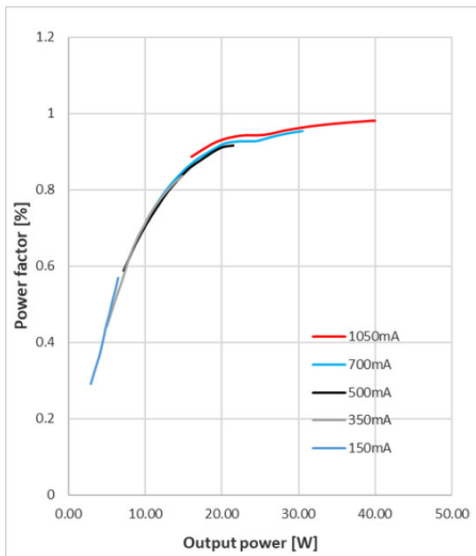
<sup>8)</sup> <3% for 350-1050mA

<sup>9)</sup> Partial load 2.7...40 W



OT 40 Track Operating window

OT 40 Track Efficiency vs Load 230V 50Hz



OT 40 Track Power factor

OT 40 Track THD

## Dimensions & weight



<b>Product weight</b>	145.00 g
<b>Cable cross-section, output side</b>	0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Wire preparation length, output side</b>	8.0...9.0 mm
<b>Length</b>	195.0 mm
<b>Width</b>	31.0 mm
<b>Height</b>	44.0 mm

<sup>1)</sup> Solid or flexible leads

## Colors & materials

<b>Casing material</b>	Plastic
<b>Product color</b>	BLACK RAL 9011

## Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+35 °C
<b>Maximum temperature at tc test point</b>	90 °C <sup>1)</sup>
<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>2)</sup>

<sup>1)</sup> Measured on tc point indicated of the product label.

<sup>2)</sup> Maximum 56 days/year at 85 %

## Lifespan

<b>ECG lifetime</b>	50000 / 100000 h <sup>1)</sup>
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<sup>1)</sup>  $T_c = 90^\circ\text{C} - 0.2\% / 1,000 \text{ h failure rate} / T_c = 80^\circ\text{C}, 0.1\% / 1,000 \text{ h failure rate}$

## Additional product data

<b>Encapsulated</b>	No
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## Product datasheet

<b>Compatible track systems</b>	Nuco / EUTRAC / GLOBAL / STAFF / NORLUX / Powergear <sup>1)</sup>
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<sup>1)</sup> The compatibility may become invalid when the critical track dimension is modified by the brand owner in case of engineering change or optimization in the future

### Capabilities

<b>Dimmable</b>	Yes
<b>Dimming interface</b>	Qualified Bluetooth mesh by Silvair
<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>Type of connection, input side</b>	-
<b>Type of connection, output side</b>	Push terminal
<b>Suitable for through-wiring</b>	No
<b>Constant lumen function</b>	Programmable
<b>Programming interface</b>	NFC
<b>Reset</b>	Manual <sup>2)</sup>
<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

<sup>2)</sup> see additional product information

### Programming

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

### Programmable features

<b>Constant Lumen</b>	Yes
<b>Lamp Operating Time</b>	Yes
<b>Driver Guard</b>	Yes
<b>Emergency Mode</b>	No
<b>Configuration Lock</b>	Yes
<b>Soft Switch Off</b>	Yes

## Product datasheet

Dim to Dark	Yes
OEM Key	No

### Certificates & standards

Approval marks – approval	CE / UKCA / CQC / RCM
Standards	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 62386/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547/Acc. to CISPR 15/Acc. to ETSI EN 300 328/Acc. to ETSI EN 300 330/Acc. to ETSI EN 301 489 - 1/Acc. to ETSI EN 301 489-3/Acc. to ETSI EN 301 489-17/Acc. to EN 62479
Protection class	II
Type of protection	IP20


### Logistical data

Commodity code	85044095900
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### Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	10-10-2023
Primary Article Identifier	4062172310574
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	2a649c54-7e3d-479b-b35b-31838cc3d086

### Download Data

File	
	CAD data 3-dim OT WI 40 220 240 1A0 NFC CAD 3D 20221208

## Product datasheet

### 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
4062172310574	OT WI 40/220...240/1A0 NFC BL T-B	Shipping carton box 20	256 mm x 225 mm x 234 mm	13.48 dm <sup>3</sup>	3328.00 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.

### Accessories Optional

Product description	Accessory name	Accessory code
OT WI 40/220...240/1A0 NFC BL T-B	Track Joint	▶ 4062172228183
OT WI 40/220...240/1A0 NFC BL T-B	BLACK RING	▶ 4062172138567

### Disclaimer

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