

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 ¹⁾
Input voltage DC	176...276 V
Current set	NFC
Total harmonic distortion	< 10 % ²⁾
Power factor λ	0.30C...0.95 ³⁾
Efficiency in full-load	86 % ⁴⁾
Protective conductor current	not relevant
Inrush current	36 A ⁵⁾
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 ⁶⁾
U-OUT (working voltage)	60 V
Nominal output current	150...1050 mA ⁷⁾
Default output current	500 mA
Output current tolerance	± 5 %
Output ripple current (100 Hz)	< 5 % ⁸⁾
Output PSTLM	≤ 1
Output SVM	≤ 0.4
Nominal output power	2.7...40 W
Maximum output power	40 W ⁹⁾
Wireless protocol	Qualified Bluetooth mesh
Wireless range	10 m line of sight
Radio frequency	2.4 GHz
Maximum TX power	+4 dBm
Networked standby power	≤ 0.30 W ⁴⁾

1) Permitted voltage range

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

3) Full load at 230 V / 50 Hz

4) at 230 V, 50 Hz

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

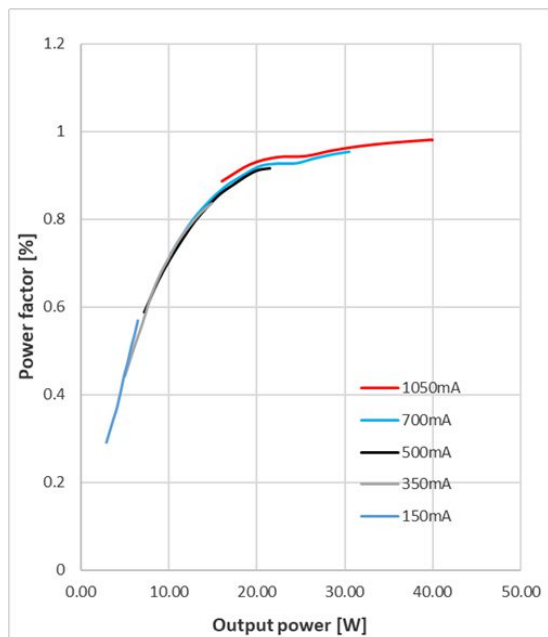
6) Maximum 60 V

7) $\pm 5\%$

8) <3% for 350-1050mA

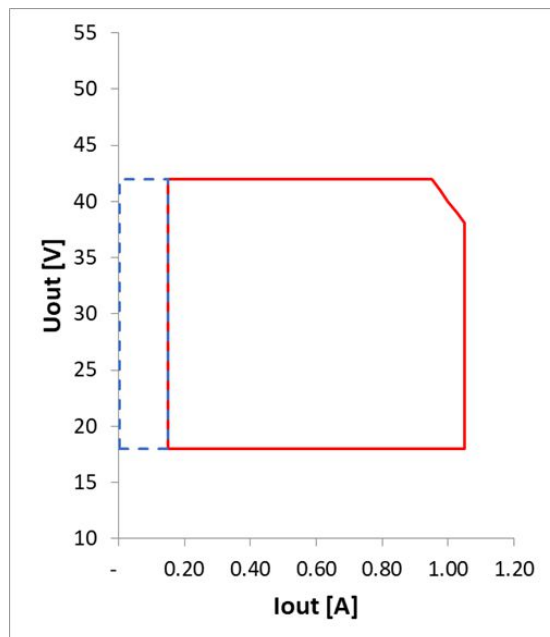
9) Partial load 2.7...40 W

Typical Power Factor v Load



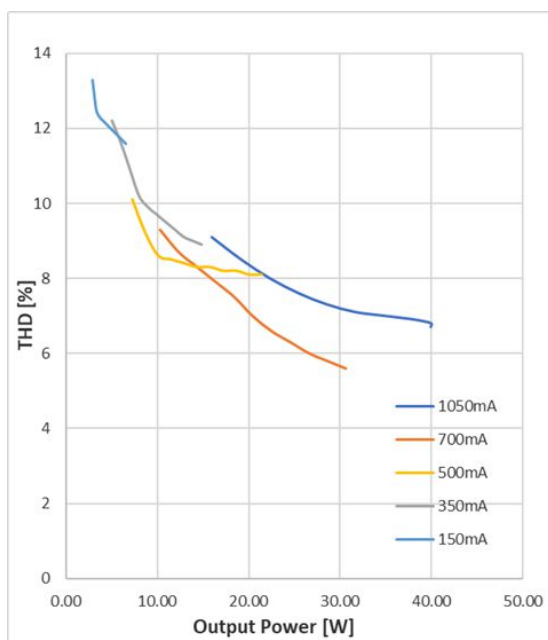
OT 40 Track Power factor

Operating Window



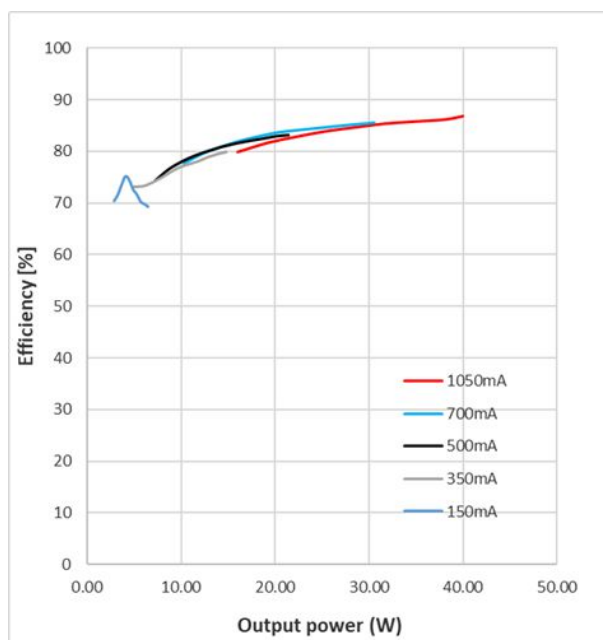
OT 40 Track Operating window

Typical THD v Load



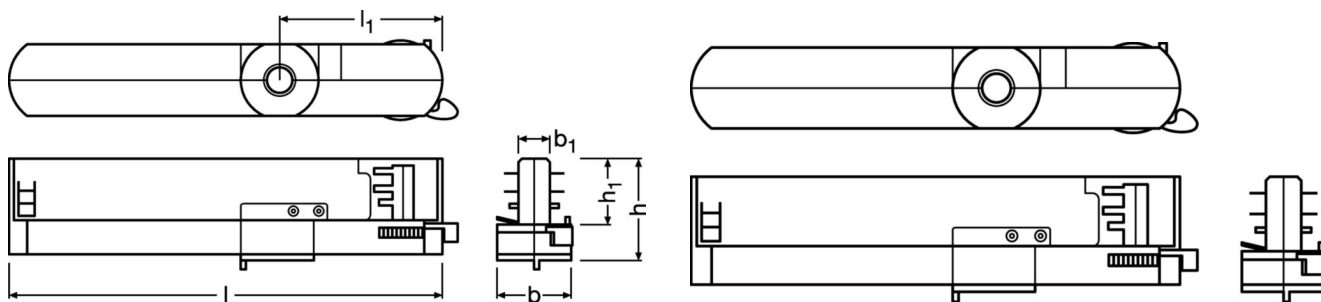
OT 40 Track THD

Typical Efficiency v Load 230 V 50 Hz



OT 40 Track Efficiency vs Load 230V 50Hz

Dimensions & weight



Length	195.0 mm
Width	31.0 mm
Height	44.0 mm
Mounting hole spacing, length	not relevant mm
Mounting hole spacing, width	not relevant mm
Cable cross-section, input side	not relevant
Cable cross-section, output side	0.75...1.5 mm ^{2 1)}
Wire preparation length, input side	not relevant
Wire preparation length, output side	8.0...9.0 mm
Product weight	145.00 g

1) Solid or flexible leads

Colors & materials

Casing material	Plastic
Product color	BLACK RAL 9011

Temperatures & operating conditions

Ambient temperature range	-20...+35 °C
Maximum temperature at tc test point	90 °C ¹⁾
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ²⁾

1) Measured on tc point indicated of the product label.

2) Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h / 100000 h ¹⁾
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1) T_c = 90°C - 0.2% / 1,000 h failure rate / T_c = 80°C, 0.1% / 1,000 h failure rate

Additional product data

Encapsulated	No
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Capabilities

Programming interface	NFC
Control interface	qualified Bluetooth mesh
Dimmable	Yes
Dimming interface	Qualified Bluetooth mesh by Silvair
Dimming range	1...100 %
Dimming method	Amplitude Modulation
Constant lumen function	Programmable
Max. cable length to lamp/LED module	2.0 m ¹⁾
Suitable for fixtures with prot. class	not relevant
Suitable for emergency lighting	No
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

Programming

Programming device	NFC
Tuner4TRONIC	Yes
Tuner4TRONIC Field App	Yes
Box programming	Yes

Programmable features

Emergency Mode	No
Dim to Dark	Yes
Soft Switch Off	Yes
Tuning Factor	Yes
Configuration Lock	Yes
Driver Guard	Yes
Emergency Mode	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
Type of protection	IP20
Protection class	2

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	30-05-2024
Primary Article Identifier	4062172310574
Declaration No. in SCIP database	In work

Download Data

File		
CAD data 3-dim	Compressed	▶OT WI 40 220 240 1A0 NFC CAD 3D 20221208
Mandatory Publications	PDF	▶OT Wi NFC T UK DoC 4452718 270723
Mandatory Publications	PDF	▶OT Wi NFC T CE 4452716 020823

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 Pieces	256 x 225 x 234 mm	13.48 dm ³	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
OT WI 40/220-240/1A0 NFC BL T-B	PRH101 -USB	▶ 6977078996938
OT WI 40/220-240/1A0 NFC BL T-B	CPR30 -USB	▶ 6977078996945

Disclaimer

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