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## OT Wi 40/220-240/1A0 NFC BL T-G

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



### Product family features

- Qualified Bluetooth mesh enabled by Silvair
- Works with 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
- Compatible with the NLC wireless standard

### 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



Specifications are subject to changes without notice.

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### 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                 |
| Nominal input current at 230 V           | 0.21 A                      |
| 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>          |
| Networked standby power                  | $\leq 0.30$ W <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)                   | 1 kV                        |
| Surge capability (L/N-Ground)            | 2 kV                        |
| Protective conductor current             | not relevant                |
| Nominal output voltage                   | 18...42 V <sup>6)</sup>     |
| U-OUT (working voltage)                  | 60 V                        |
| Nominal output current                   | 150...1050 mA <sup>7)</sup> |
| Minimum output current                   | 3.5 mA                      |
| Default output current                   | 500 mA                      |
| Output current tolerance                 | $\pm 5$ %                   |
| Output ripple current (100 Hz)           | < 5 % <sup>8)</sup>         |
| Output PSTLM                             | $\leq 1$                    |
| Output SVM                               | $\leq 0.4$                  |
| Nominal output power                     | 2.7...40 W                  |
| Maximum output power                     | 40 W <sup>9)</sup>          |
| Galvanic isolation primary/secondary     | SELV                        |
| Wireless protocol                        | Qualified Bluetooth mesh    |
| Wireless range                           | 10 m line of sight          |
| Radio frequency                          | 2.4 GHz                     |
| Maximum TX power                         | +4 dBm                      |

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

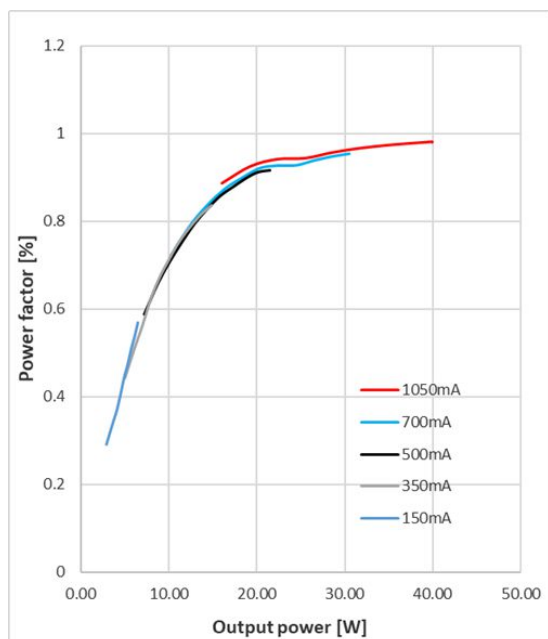
6) Maximum 60 V

7)  $\pm 5\%$

8) <3% for 350-1050mA

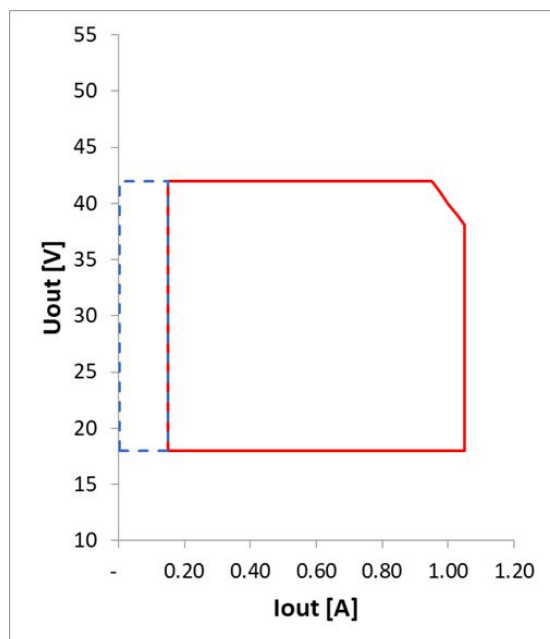
9) Partial load 2.7...40 W

Typical Power Factor v Load



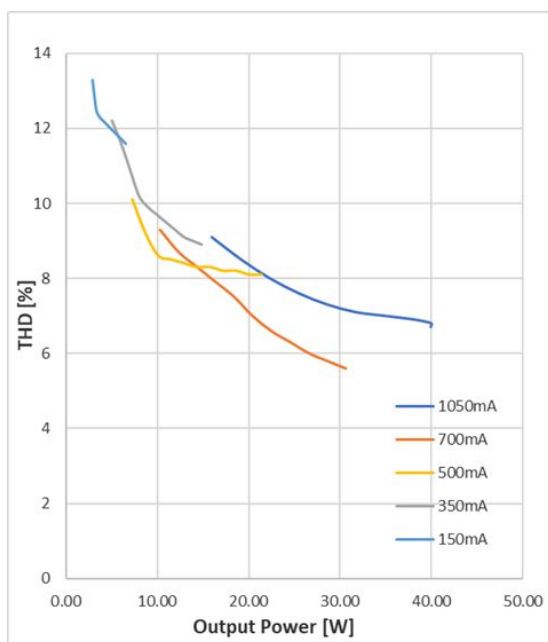
OT 40 Track Power factor

Operating Window



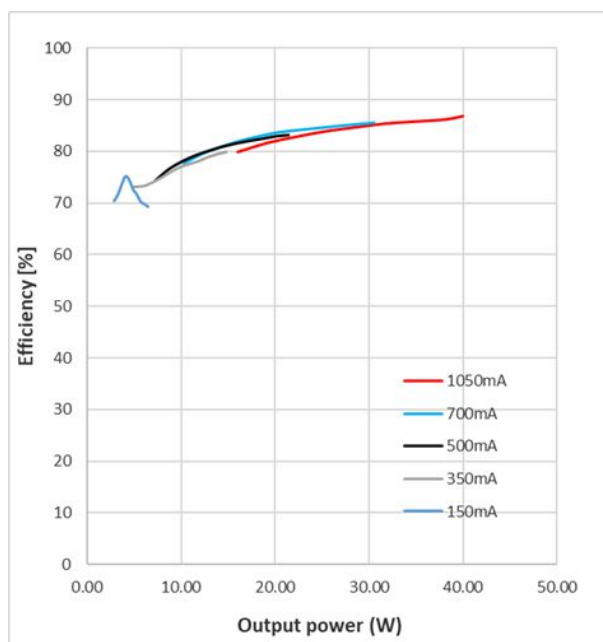
OT 40 Track Operating window

Typical THD v Load



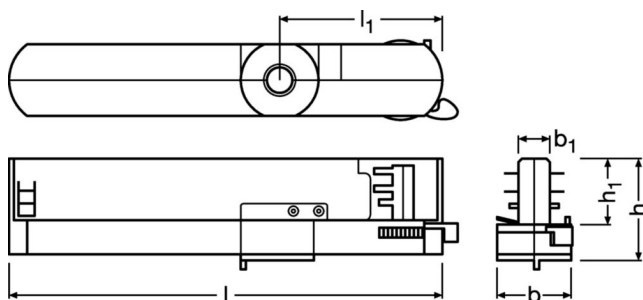
OT 40 Track THD

Typical Efficiency v Load 230 V 50 Hz



OT 40 Track Efficiency vs Load 230V 50Hz

### Dimensions & weight



|                                      |                               |
|--------------------------------------|-------------------------------|
| Product weight                       | 148.00 g                      |
| Length                               | 195.0 mm                      |
| Width                                | 31.0 mm                       |
| Height                               | 49.9 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 <sup>2 1)</sup> |
| Wire preparation length, input side  | not relevant                  |
| Wire preparation length, output side | 8.0...9.0 mm                  |
| Cable/wire length, output side       | 2000 mm                       |

1) Solid or flexible leads

### Colors & materials

|                 |               |
|-----------------|---------------|
| Casing material | Plastic       |
| Product color   | GREY RAL 7040 |

### Temperatures & operating conditions

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

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

2) Maximum 56 days/year at 85 %

### Lifespan

|                     |                                  |
|---------------------|----------------------------------|
| <b>ECG lifetime</b> | 50000 h / 100000 h <sup>1)</sup> |
|---------------------|----------------------------------|

1)  $T_c = 90^\circ\text{C}$  - 0.2% / 1,000 h failure rate /  $T_c = 80^\circ\text{C}$ , 0.1% / 1,000 h failure rate

### Additional product data

|                                 |                                                                   |
|---------------------------------|-------------------------------------------------------------------|
| <b>Encapsulated</b>             | No                                                                |
| <b>Compatible track systems</b> | Nuco / EUTRAC / GLOBAL / STAFF / NORLUX / Powergear <sup>1)</sup> |

1) 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>Programming interface</b>                  | NFC                                 |
| <b>Control interface</b>                      | qualified Bluetooth mesh            |
| <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>Constant lumen function</b>                | Programmable                        |
| <b>Max. cable length to lamp/LED module</b>   | 2.0 m <sup>1)</sup>                 |
| <b>Suitable for fixtures with prot. class</b> | not relevant                        |
| <b>Suitable for emergency lighting</b>        | No                                  |
| <b>Type of connection, output side</b>        | Push terminal                       |
| <b>Suitable for through-wiring</b>            | No                                  |
| <b>Number of channels</b>                     | 1                                   |
| <b>Overheating protection</b>                 | Automatic reversible                |
| <b>Overload protection</b>                    | Automatic reversible                |
| <b>Short-circuit protection</b>               | Automatic reversible                |
| <b>Intended for no-load operation</b>         | No                                  |
| <b>No-load proof</b>                          | 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

|                    |     |
|--------------------|-----|
| 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                 | IEC 61347-1 / IEC 61347-2-13 / IEC 62384 / IEC 62386 / IEC 61000-3-2 / IEC 61000-3-3 / IEC 61547 / CISPR 15 / ETSI EN 300 328 / ETSI EN 300 330 / ETSI EN 301 489 - 1 / ETSI EN 301 489-3 / ETSI EN 301 489-17 / EN 62479 |
| Type of protection        | IP20                                                                                                                                                                                                                      |

### Logistical data

|                |             |
|----------------|-------------|
| Commodity code | 85044095900 |
|----------------|-------------|

### Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |                               |
|-----------------------------------------------------------------------|-------------------------------|
| Date of Declaration                                                   | 15-07-2025                    |
| Primary Article Identifier                                            | 4062172350129   6977770432024 |
| Declaration No. in SCIP database                                      | In work                       |
| SCIP_STATUS                                                           | In work                       |
| SCIP_ID                                                               |                               |

#### 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                   |            |                                           |
|------------------------|------------|-------------------------------------------|
| 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 03 160125         |
| User instruction       | PDF        | ▶UI OT WI 40 NFC BL T                     |

### Logistical Data

| Product code           | Product description                | Packaging unit (Pieces/Unit)     | Dimensions (length x width x height) | Volume    | Gross weight |
|------------------------|------------------------------------|----------------------------------|--------------------------------------|-----------|--------------|
| 4062172350129<br>OSRAM | OT Wi 40/220-240/1A0<br>NFC BL T-G | Shipping carton box<br>20 Pieces | 256 x 225 x 234 mm                   | 13.48 dm³ | 169.40 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-G | Track Joint    | ▶ 4062172228183 |
| OT Wi 40/220-240/1A0 NFC BL T-G | Track Joint    | ▶ 6937186119209 |
| OT Wi 40/220-240/1A0 NFC BL T-G | GREY RING      | ▶ 4062172138543 |
| OT Wi 40/220-240/1A0 NFC BL T-G | GREY RING      | ▶ 6937186119117 |
| OT Wi 40/220-240/1A0 NFC BL T-G | PRH101 -USB    | ▶ 6977078996938 |
| OT Wi 40/220-240/1A0 NFC BL T-G | PRH101 -USB    | ▶ 6937186112354 |
| OT Wi 40/220-240/1A0 NFC BL T-G | CPR30 -USB     | ▶ 6977078996945 |
| OT Wi 40/220-240/1A0 NFC BL T-G | CPR30 -USB     | ▶ 6937186112378 |

### Disclaimer

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