

OT WI 80/220-240/2A1 NFC BL L

OPTOTRONIC Wireless Intelligent – QBM NFC L (SELV) | 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
- Lifetime: up to 100,000 h
- Type of protection: IP20
- SELV driver



Product family benefits

- Versatile QBM window driver up to 80 W and 750 mA
- Fully programmable via software (NFC)
- Very high efficiency
- High-quality dimming of 1...100 %
- 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, hospitality and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for indoor SELV installations
- Suitable for luminaires of protection class I

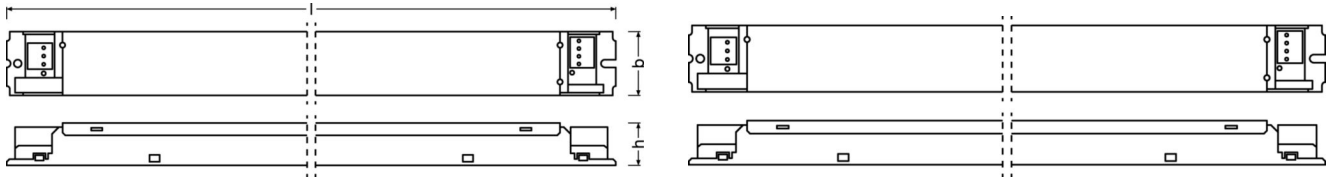
Technical data

Electrical data

| | |
|--|--------------------------|
| Max. ECG no. on circuit breaker 10 A (B) | 8 |
| Max. ECG no. on circuit breaker 16 A (B) | 13 |
| Maximum output power | 80 W |
| Nominal output current | 600...2100 mA |
| Nominal output power | 32...80 W |
| Nominal output voltage | 20...54 V |
| Nominal input voltage | 220...240 V |
| Input voltage AC | 198...264 V |
| Input voltage DC | 176...276 V |
| Device power loss | 8.0 W |
| Efficiency in full-load | 90 % |
| Galvanic isolation primary/secondary | SELV |
| Inrush current | ≤ 30 A |
| Networked standby power | <0.20 W ¹⁾ |
| Power factor λ | 0.83C...0.99 |
| Mains frequency | 0/50/60 Hz |
| Surge capability (L-N) | 1 kV |
| Surge capability (L/N-Ground) | 2 kV |
| U-OUT (working voltage) | < 60 V |
| Current set | NFC / Programmable |
| Maximum TX power | +4 dBm |
| Output current tolerance | ±3 % |
| Output ripple current (100 Hz) | < 3 % |
| Protective conductor current | <0.5 mA |
| Radio frequency | 2.4 GHz |
| Total harmonic distortion | < 10 % |
| Wireless protocol | Qualified Bluetooth mesh |
| Wireless range | up to 10m |
| Default output current | 600 mA |

1) at 230 V, 50 Hz

Dimensions & weight



| | |
|--------------------------------------|----------------------------|
| Product weight | 280.00 g |
| Length | 360.0 mm |
| Height | 21.0 mm |
| Width | 30.0 mm |
| Cable cross-section, input side | 0.5... 1.5 mm ² |
| Cable cross-section, output side | 0.5... 1.5 mm ² |
| Mounting hole spacing, length | 350.0 mm |
| Wire preparation length, input side | 8.0...9.0 mm |
| Wire preparation length, output side | 8.0...9.0 mm |

Colors & materials

| | |
|-----------------|-------|
| Casing material | Metal |
|-----------------|-------|

Temperatures & operating conditions

| | |
|--|------------------------|
| Ambient temperature range | -25...+50 °C |
| Max.housing temperature in case of fault | 110 °C |
| Maximum temperature at tc test point | 80 °C |
| Permitted rel. humidity during operation | 5...85 % ¹⁾ |
| Temperature range at storage | -40...+85 °C |

1) Maximum 56 days/year at 85 %

Lifespan

| | |
|--------------|--------------------|
| ECG lifetime | 100000 h / 50000 h |
|--------------|--------------------|

Additional product data

| | |
|--------------|----|
| Encapsulated | No |
|--------------|----|

Capabilities

| | |
|--|--------------------------|
| Max. cable length to lamp/LED module | 2.0 m ¹⁾ |
| Number of channels | 1 |
| Dimmable | Yes |
| Dimming interface | Qualified Bluetooth mesh |
| Dimming method | Full analogue dimming |
| Dimming range | 1...100 % |
| Overload protection | Automatic reversible |
| Overheating protection | Automatic reversible |
| Short-circuit protection | Automatic reversible |
| Suitable for through-wiring | No |
| Suitable for emergency lighting | Yes |
| Suitable for fixtures with prot. class | I |
| Type of connection, input side | Push terminal |
| Type of connection, output side | Push terminal |
| Constant lumen function | Yes |
| No-load proof | Yes |
| Programming interface | NFC |

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

Programming

| | |
|-----------------|-----|
| Box programming | Yes |
|-----------------|-----|

Programmable features

| | |
|-----------------------|-----|
| Dim to Dark | Yes |
| Configuration Lock | Yes |
| DALI-2 Luminaire Data | No |
| Driver Guard | Yes |
| Emergency Mode | Yes |
| Soft Switch Off | Yes |

Certificates & standards

| | |
|---------------------------|--|
| Type of protection | IP20 |
| 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 |
| Approval marks – approval | BIS / CCC / CE / EL / RCM / ENEC |

Logistical data

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

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 | | |
|------------------------|------------|--|
| Certificates | PDF | ▶ OT ENEC 40038085 230824 |
| Certificates | PDF | ▶ OT ENEC 40038447 270224 |
| CAD data 2-dim | Compressed | ▶ OT WI 80 NFC CA BL L CAD2PDF 140722 |
| CAD data 3-dim | Compressed | ▶ OT WI 80 NFC CA BL L CAD3PDF 140722 |
| CAD data | Compressed | ▶ OT WI 80 NFC CA BL L STEP 140722 |
| CAD data | Compressed | ▶ OT WI 80 NFC CA BL L IGS 140722 |
| Mandatory Publications | PDF | ▶ OT WI NFC L CE 4423276 03 160523 |
| Mandatory Publications | PDF | ▶ OT WI NFC L UK DoC 4281112 01 060923 |
| User instruction | PDF | ▶ OPTOTRONIC LED Power Supply |

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|----------------------------------|----------------------------------|---|----------------------|--------------|
| 4062172311281 | OT WI 80/220-240/2A1 NFC BL L | Shipping carton box 20 Pieces | 385 x 160 x 100 mm | 6.16 dm ³ | 174.00 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

Disclaimer

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