

## 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

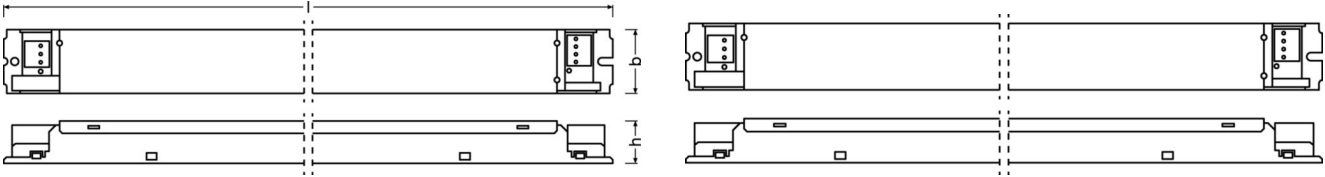
## Technical data

### Electrical data

|  |                          |
|--|--------------------------|
| 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 / Programmable       |
| Total harmonic distortion                | < 10 %                   |
| Power factor $\lambda$                   | 0.83C...0.99             |
| Efficiency in full-load                  | 90 %                     |
| Device power loss                        | 8.0 W                    |
| Protective conductor current             | <0.5 mA                  |
| Inrush current                           | $\leq 30$ A              |
| Max. ECG no. on circuit breaker 10 A (B) | 8                        |
| Max. ECG no. on circuit breaker 16 A (B) | 13                       |
| Surge capability (L/N-Ground)            | 2 kV                     |
| Surge capability (L-N)                   | 1 kV                     |
| Nominal output voltage                   | 20...54 V                |
| U-OUT (working voltage)                  | < 60 V                   |
| Nominal output current                   | 600...2100 mA            |
| Default output current                   | 600 mA                   |
| Output current tolerance                 | $\pm 3$ %                |
| Output ripple current (100 Hz)           | < 3 %                    |
| Output PSTLM                             | $\leq 1$                 |
| Output SVM                               | $\leq 0.4$               |
| Nominal output power                     | 32...80 W                |
| Maximum output power                     | 80 W                     |
| Galvanic isolation                       | SELV                     |
| Wireless protocol                        | Qualified Bluetooth mesh |
| Wireless range                           | up to 10m                |
| Radio frequency                          | 2.4 GHz                  |
| Maximum TX power                         | +4 dBm                   |
| Networked standby power                  | <0.20 W <sup>1)</sup>    |

1) at 230 V, 50 Hz

## Dimensions & weight



|   |                           |
|---|---------------------------|
| <b>Length</b>                               | 360.0 mm                  |
| <b>Width</b>                                | 30.0 mm                   |
| <b>Height</b>                               | 21.0 mm                   |
| <b>Mounting hole spacing, length</b>        | 350.0 mm                  |
| <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>Product weight</b>                       | 280.00 g                  |

## Colors & materials

|                        |       |
|------------------------|-------|
| <b>Casing material</b> | Metal |
|------------------------|-------|

## Temperatures & operating conditions

|   |                        |
|---|------------------------|
| <b>Ambient temperature range</b>                | -25...+50 °C           |
| <b>Maximum temperature at tc test point</b>     | 80 °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> |

1) Maximum 56 days/year at 85 %

## Lifespan

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

## Additional product data

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

## Capabilities

|  |                          |
|--|--------------------------|
| Programming interface                  | NFC                      |
| Control interface                      | qualified Bluetooth mesh |
| Dimmable                               | Yes                      |
| Dimming interface                      | Qualified Bluetooth mesh |
| Dimming range                          | 1...100 %                |
| Dimming method                         | Full analogue dimming    |
| DALI-2 Diagnostic Data                 | No                       |
| DALI-2 Energy Data                     | No                       |
| Constant lumen function                | Yes                      |
| Max. cable length to lamp/LED module   | 2.0 m <sup>1)</sup>      |
| Suitable for fixtures with prot. class | I                        |
| Suitable for emergency lighting        | Yes                      |
| Type of connection, input side         | Push terminal            |
| 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     | DALI magic / NFC Scanner |
| Tuner4TRONIC           | Yes                      |
| Tuner4TRONIC Field App | Yes                      |
| Box programming        | Yes                      |

## Programmable features

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

## Certificates & standards

|                           |  |
|---------------------------|--|
| Approval marks – approval | BIS / CCC / CE / EL / RCM / ENEC   |
| 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 |
| Type of protection        | IP20   |
| Protection class          | 1  |

## Logistical data

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

## Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |               |
|---|---------------|
| Date of Declaration   | 30-05-2024    |
| Primary Article Identifier  | 4062172311281 |
| Declaration No. in SCIP database                                      | In work       |

## Download Data

| File                   |            |                                       |
|------------------------|------------|---------------------------------------|
| 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          |

## 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 |
|---------------|----------------------------------|----------------------------------|--------------------------------------|----------------------|--------------|
| 4062172311281 | OT WI 80/220-240/2A1<br>NFC BL L | Shipping carton box<br>20 Pieces | 385 x 160 x 100 mm                   | 6.16 dm <sup>3</sup> | 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.