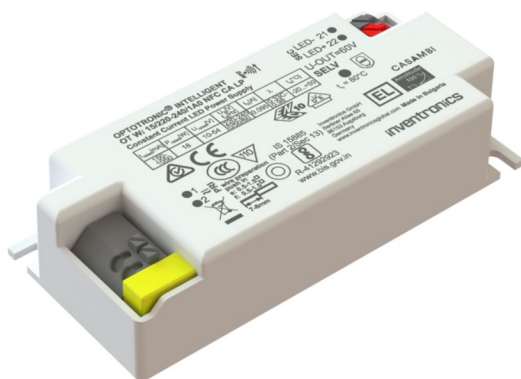


## OT Wi 15/220-240/1A0 NFC CA LP

OPTOTRONIC Wireless Intelligent – Casambi NFC LP | Compact constant current LED driver – Dimmable



### Product family features

- 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

- Small housing for flexible luminaire designs
- Versatile CASAMBI window driver due to flexible output characteristic
- Easy and fast output current setting via NFC
- Very high efficiency
- High-quality dimming of 1...100 % by amplitude dimming



## Areas of application

- Suitable for downlights, spotlights and LED panels
- Suitable for use in luminaires with flexible current setting
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II

## 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           | 0.10 A                      |
| Total harmonic distortion                | < 10 % <sup>2)</sup>        |
| Power factor $\lambda$                   | 0.33C...0.98                |
| Efficiency in full-load                  | 87.3 % <sup>3)</sup>        |
| Networked standby power                  | 0.15 W <sup>3)</sup>        |
| Inrush current                           | 20 A <sup>4)</sup>          |
| Max. ECG no. on circuit breaker 10 A (B) | 82                          |
| Max. ECG no. on circuit breaker 16 A (B) | 130                         |
| Surge capability (L-N)                   | 1 kV                        |
| Surge capability (L/N-Ground)            | 2 kV                        |
| Nominal output voltage                   | 10...54 V <sup>5)</sup>     |
| U-OUT (working voltage)                  | 60 V                        |
| Nominal output current                   | 150...1050 mA <sup>6)</sup> |
| Minimum output current                   | 1.5 mA                      |
| Default output current                   | 350 mA                      |
| Output current tolerance                 | $\pm 3$ %                   |
| Output ripple current (100 Hz)           | < 3 % <sup>7)</sup>         |
| Output PSTLM                             | $\leq 1$                    |
| Output SVM                               | $\leq 0.4$                  |
| Nominal output power                     | 3...18 W                    |
| Maximum output power                     | 18 W <sup>8)</sup>          |
| Galvanic isolation primary/secondary     | SELV                        |
| Wireless protocol                        | Casambi Evolution           |
| Wireless range                           | 10 m line of sight          |
| Radio frequency                          | 2.4 GHz                     |
| Maximum TX power                         | 8 dBm <sup>9)</sup>         |

1) Permitted voltage range

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

3) at 230 V, 50 Hz

4)  $t_{width} = 25 \mu s$  (measured at 50 %  $I_{peak}$ )

5) Maximum 60 V

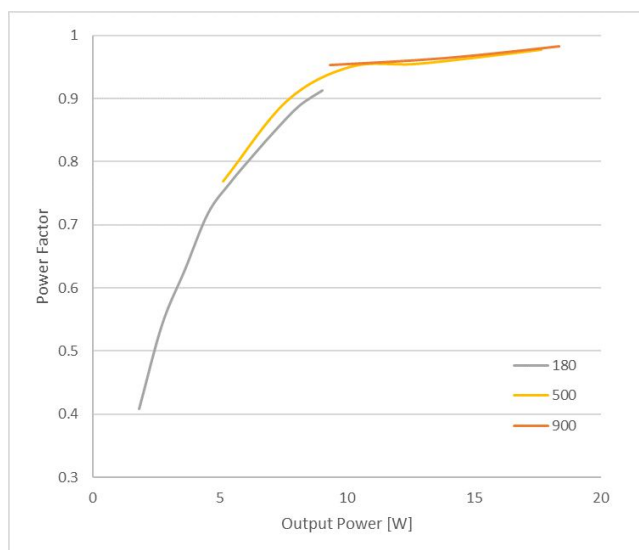
6)  $\pm 3\%$

7) Ripple average at 100 Hz

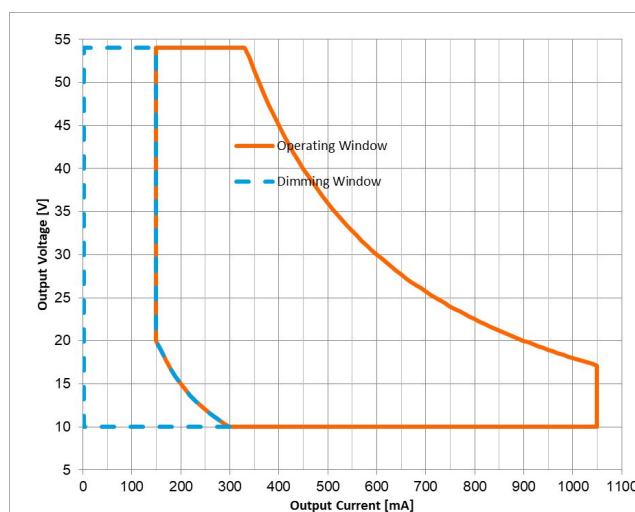
8) Partial load 3...18 W

9) 6.3 mW

Typical Power Factor v Load



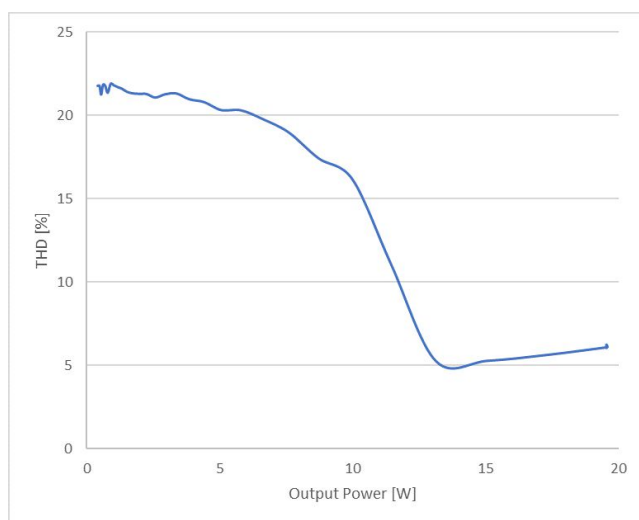
Operating Window



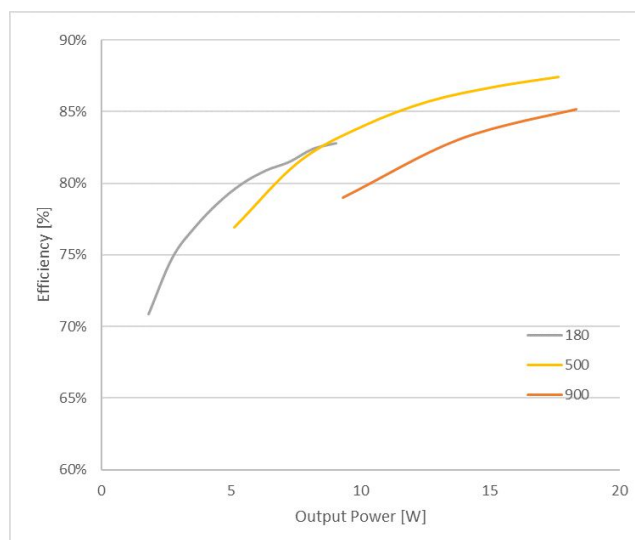
OTI DALI 15 NFC LP Typical Power Factor vs. Load

OTI DALI 15 NFC LP Operating window

Typical THD v Load



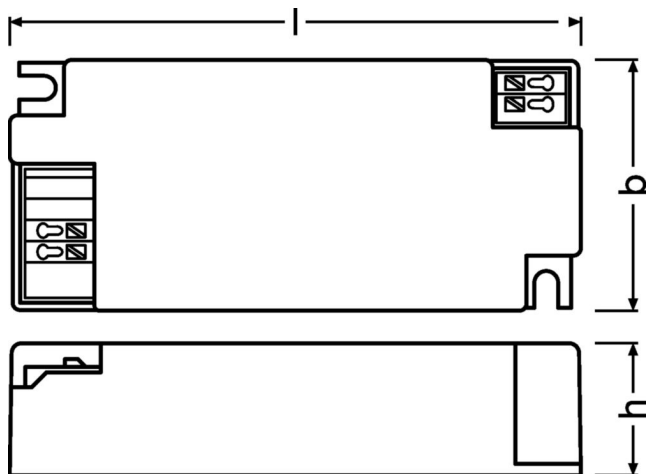
Typical Efficiency v Load 230 V 50 Hz



OTI DALI 15 NFC LP Typical THD Vs Load

OTI DALI 15 NFC LP Typical Efficiency vs. Load (230 V / 50 Hz)

## Dimensions & weight



|                                      |                              |
|--------------------------------------|------------------------------|
| Product weight                       | 95.00 g                      |
| Length                               | 97.0 mm                      |
| Width                                | 42.5 mm                      |
| Height                               | 22.0 mm                      |
| Mounting hole spacing, length        | 88.0 mm                      |
| Mounting hole spacing, width         | 34.0 mm                      |
| Cable cross-section, input side      | 0.5...1.5 mm <sup>2 1)</sup> |
| Cable cross-section, output side     | 0.5...1.5 mm <sup>2 1)</sup> |
| Wire preparation length, input side  | 7...8 mm                     |
| Wire preparation length, output side | 7...8 mm                     |
| Cable/wire length, output side       | 2000 mm                      |

1) Solid or flexible leads

## Colors & materials

|                 |         |
|-----------------|---------|
| Casing material | Plastic |
| Product color   | White   |

## Temperatures & operating conditions

|                                          |                        |
|------------------------------------------|------------------------|
| Ambient temperature range                | -20...+50 °C           |
| Maximum temperature at tc test point     | 80 °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) Maximum at the Tc-point

2) Maximum 56 days/year at 85 %

## Lifespan

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

1)  $T_c = 80^\circ\text{C}$ , 0.2% / 1,000 h failure rate /  $T_c = 70^\circ\text{C}$ , 0.1% / 1,000 h failure rate

## Additional product data

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

## Capabilities

|                                        |                      |
|----------------------------------------|----------------------|
| Programming interface                  | NFC                  |
| Control interface                      | Casambi              |
| Dimmable                               | Yes                  |
| Dimming interface                      | Bluetooth CASAMBI    |
| Dimming range                          | 1...100 %            |
| Dimming method                         | Amplitude Modulation |
| DALI-2 Diagnostic Data                 | No                   |
| DALI-2 Energy Data                     | No                   |
| Constant lumen function                | Programmable         |
| Max. cable length to lamp/LED module   | 2.0 m <sup>1)</sup>  |
| Suitable for fixtures with prot. class | I / II               |
| Suitable for emergency lighting        | Yes                  |
| Type of connection, input side         | Push terminal        |
| Type of connection, output side        | Push terminal        |
| 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

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

## Certificates & standards

|                           |                                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | CE / UKCA / ENEC / EL / BIS                                                                                                                        |
| Standards                 | EN 61347-1 / EN 61347-2-13 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 62384 / EN 62479 / ETSI EN 300 328 / ETSI EN 301 489-17 / ETSI EN 301 489 - 1 |
| 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                                                   | 12-06-2026                    |
| Primary Article Identifier                                            | 4062172227971   6977770431782 |
| 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.

## Additional product information

- Download Casambi app from App store or Google play. For the correct functioning of the Casambi app refer to the Casambi website: <http://www.casambi.com>.
- The Casambi App is provided to you by Casambi. Inventronics shall have no liability for the Casambi app and does not make any representations, express or implied, about the availability and/or performance of the Casambi app.
- The Casambi cloud services are provided to you by Casambi. Inventronics shall have no liability for the Casambi cloud services and does not make any representations, express or implied, about the availability and/or performance of the Casambi cloud services.
- Inventronics shall have no liability for and does not make any representations, express or implied, about the connectivity of Casambi ready products of Inventronics with any other Casambi ready products.
- There are two places in the app where you can unpair a Casambi enabled device from a network.
  1. Go to the 'Luminaires' tab and tap 'edit'. Unpair a luminaire by tapping the ("X") that will appear in the corner of the relevant luminaire icon. You can also double-tap a luminaire icon to open the "luminaire properties" screen, and then scroll down and tap 'Unpair device'.
  2. Go to the "Nearby devices" screen found under the 'More' tab. Tap on the device you wish to unpair and select 'Unpair device'. This will unpair the luminaire if you have modification (administrator) rights to the network. If you don't have the modification rights to the network that the device is paired to then you need to have access to the devices power switch to be able to unpair. Tap on the device you wish to unpair and select 'Unpair device' and the app will open the 'Unpair' screen. Tap on the 'Start' button and an orange "Time bar" will appear and start to move across the screen. During the time it takes the bar to move across the screen, flick the power switch off and back on again. This should unpair the device. If unpairing succeeds then there is a message that luminaire has been unpaired. If it does not succeed then try again but switch the power off and on again more slowly (This may be needed for devices that use an additional power supply; such as a CBU-PWM4). If unpairing continues to be unsuccessful then it is probably the case that the power switch is not correct for the device you are trying to unpair.

## Download Data

| File                   |         |                                                            |
|------------------------|---------|------------------------------------------------------------|
| Certificates           | PDF     | ▶ CED OT WI xx NFC xx LP family 2025-01                    |
| Certificates           | PDF     | ▶ VDE ENEC certificate 40038447 INV                        |
| CAD data 3-dim         | PDF     | ▶ OPTOTRONIC Wireless Intelligent – QBM NFC LP   3-dim PDF |
| CAD data 2-dim         | PDF     | ▶ OPTOTRONIC Wireless Intelligent – QBM NFC LP   2-dim PDF |
| CAD data               | UNKNOWN | ▶ OPTOTRONIC Wireless Intelligent – QBM NFC LP   IGS       |
| CAD data               | UNKNOWN | ▶ OPTOTRONIC Wireless Intelligent – QBM NFC LP   STEP      |
| Mandatory Publications | PDF     | ▶ OT WI NFC CA BL LP LPI CE 4388804 05 200125              |
| User instruction       | PDF     | ▶ UI OT WI NFC CA LP                                       |

## Logistical Data

| Product code                  | Product description               | Packaging unit<br>(Pieces/Unit)  | Dimensions (length<br>x width x height) | Volume               | Gross weight |
|-------------------------------|-----------------------------------|----------------------------------|-----------------------------------------|----------------------|--------------|
| 6977770431782<br>INVENTRONICS | OT Wi 15/220-240/1A0<br>NFC CA LP | Shipping carton box<br>20 Pieces | 208 x 122 x 107 mm                      | 2.72 dm <sup>3</sup> | 124.50 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.

## Accessories Optional

| Product description            | Accessory name | Accessory code  |
|--------------------------------|----------------|-----------------|
| OT Wi 15/220-240/1A0 NFC CA LP | PRH101 -USB    | ▶ 6977078996938 |
| OT Wi 15/220-240/1A0 NFC CA LP | PRH101 -USB    | ▶ 6937186112354 |
| OT Wi 15/220-240/1A0 NFC CA LP | CPR30+         | ▶ 6977078996945 |
| OT Wi 15/220-240/1A0 NFC CA LP | CPR30+         | ▶ 6937186112378 |