

## OT WI 80/220-240/24 4CH CA

Optotronic Wireless Intelligent - 24 V CASAMBI



### Product family features

- 50, 80, 160 W / 24 V LED drivers, multichannel output
- Lighting wireless Bluetooth Mesh network
- Different light profiles to customize the application

### Product family benefits

- Power supply and control of white, Tunable White, Tunable Warm White, Dim to Warm
- Power supply and control of RGB and RGBW LED modules (only 50 W and 80 w)
- Driver with integrated CASAMBI lighting control system
- Slim form factor for installation in light boxes
- No stroboscopic effect thanks to patented high PWM frequency management (> 2 kHz)

## Areas of application

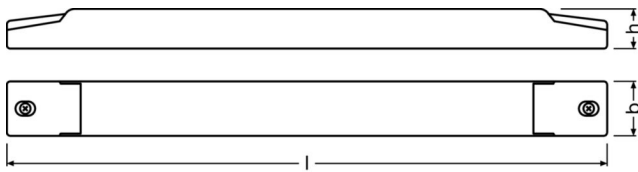
- Suitable for indoor installations
- Shops and hospitality: retail, hotels, restaurants
- Museums, residential buildings

## Technical data

### Electrical data

|                                          |             |
|------------------------------------------|-------------|
| Nominal input voltage                    | 220...240 V |
| Mains frequency                          | 50/60 Hz    |
| Input voltage AC                         | 198...264 V |
| Input voltage DC                         | 176...276 V |
| Total harmonic distortion                | < 5 %       |
| Power factor $\lambda$                   | 0.95...0.99 |
| Efficiency in full-load                  | 93 %        |
| Device power loss                        | 6.0 W       |
| Inrush current                           | 46 A        |
| Max. ECG no. on circuit breaker 10 A (B) | 9           |
| Max. ECG no. on circuit breaker 16 A (B) | 15          |
| Surge capability (L/N-Ground)            | 2 kV        |
| Surge capability (L-N)                   | 1 kV        |
| Nominal output voltage                   | 24.2 V      |
| U-OUT (working voltage)                  | 24.2 V      |
| Output ripple current (100 Hz)           | < 1 %       |
| Output PSTLM                             | <1          |
| Output SVM                               | <0.4        |
| Nominal output power                     | 80 W        |
| Maximum output power                     | 80 W        |
| Galvanic isolation                       | SELV        |
| Wireless protocol                        | Casambi     |

## Dimensions & weight



|                                      |                            |
|--------------------------------------|----------------------------|
| Length                               | 346.0 mm                   |
| Width                                | 32.0 mm                    |
| Height                               | 22.0 mm                    |
| Mounting hole spacing, length        | 303.0 mm                   |
| Cable cross-section, input side      | 0.75...2.5 mm <sup>2</sup> |
| Cable cross-section, output side     | 0.2...1.5 mm <sup>2</sup>  |
| Wire preparation length, input side  | 6.0 mm                     |
| Wire preparation length, output side | 6.0 mm                     |
| Product weight                       | 191.00 g                   |

## Colors & materials

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

## Temperatures & operating conditions

|                                          |                        |
|------------------------------------------|------------------------|
| Ambient temperature range                | -20...+45 °C           |
| Maximum temperature at tc test point     | 80 °C                  |
| Temperature range at storage             | -40...+85 °C           |
| Permitted rel. humidity during operation | 5...85 % <sup>1)</sup> |

1) Maximum 56 days/year at 85 %

## Lifespan

|              |                   |
|--------------|-------------------|
| ECG lifetime | 50000 k, Tc MAX h |
|--------------|-------------------|

## Capabilities

|                                        |                    |
|----------------------------------------|--------------------|
| Programming interface                  | CASAMBI            |
| Dimmable                               | Yes                |
| Dimming interface                      | Bluetooth CASAMBI  |
| Dimming range                          | 0.4...100 %        |
| Dimming method                         | PWM                |
| Max. cable length to lamp/LED module   | 50 m <sup>1)</sup> |
| Suitable for fixtures with prot. class | I / II             |
| Suitable for emergency lighting        | No                 |
| Type of connection, input side         | Screw terminal     |
| Type of connection, output side        | Screw terminal     |
| Suitable for through-wiring            | Yes                |
| Number of channels                     | 4                  |
| Overheating protection                 | Yes                |
| Overload protection                    | Yes                |
| Short-circuit protection               | Yes                |
| Intended for no-load operation         | No                 |

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

## Certificates & standards

|                           |                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | CE / ENEC 10 / UKCA / RCM / VDE / VDE-ENEC                                                                  |
| Standards                 | IEC/EN 61347-1 / IEC 62384 / IEC 61347-2-13 / IEC 61000-3-2 / IEC 61000-3-3 / IEC 61547 / CISPR 15/EN 55015 |
| 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                                                   | 19-06-2026                    |
| Primary Article Identifier                                            | 4052899632059   6937186115171 |
| 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                   |     |                                                                                 |
|------------------------|-----|---------------------------------------------------------------------------------|
| Product Datasheet      | PDF | ▶ OT Wi 50-80_220-240_24 4CH CA TDS V1.2 6937186115195 6937186115171 TDS 190626 |
| Certificates           | PDF | ▶ CED - OT Wi xxx 24 1/2/4CH family - 2025-08                                   |
| Certificates           | PDF | ▶ VDE ENEC Certificate 40050684 INV                                             |
| Mandatory Publications | PDF | ▶ OT WI 24 4CH CA CE 4511161 02 200125                                          |
| User instruction       | PDF | ▶ OT Wi 50 80 24 4CH CA UI 15130927 310725                                      |

## Logistical Data

| Product code                  | Product description           | Packaging unit<br>(Pieces/Unit)  | Dimensions (length<br>x width x height) | Volume               | Gross weight |
|-------------------------------|-------------------------------|----------------------------------|-----------------------------------------|----------------------|--------------|
| 6937186115171<br>INVENTRONICS | OT WI 80/220-240/24<br>4CH CA | Shipping carton box<br>20 Pieces | 371 x 171 x 105 mm                      | 6.66 dm <sup>3</sup> | 199.44 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.