

## OT WI 160/220-240/24 2CH 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

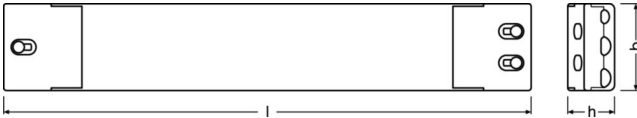
- Suitable for indoor installations
- Shops and hospitality: retail, hotels, restaurants
- Museums, residential buildings

## 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 $\lambda$	0.92C...0.99
Efficiency in full-load	93%
Device power loss	11.0 W
Inrush current	57 A
Max. ECG no. on circuit breaker 10 A (B)	4
Max. ECG no. on circuit breaker 16 A (B)	7
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	160 W
Maximum output power	160 W
Galvanic isolation	SELV
Wireless protocol	Casambi
Networked standby power	<0.30 W

## Dimensions & weight



<b>Length</b>	300.0 mm
<b>Width</b>	50.0 mm
<b>Height</b>	35.0 mm
<b>Mounting hole spacing, length</b>	258.0 mm
<b>Cable cross-section, input side</b>	0.5...2.5 mm <sup>2</sup>
<b>Cable cross-section, output side</b>	0.5...2.5 mm <sup>2</sup>
<b>Wire preparation length, input side</b>	6.0 mm
<b>Wire preparation length, output side</b>	6.0 mm
<b>Product weight</b>	380.00 g

## Colors & materials

<b>Casing material</b>	Plastic
<b>Product color</b>	White

## Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+45 °C
<b>Maximum temperature at tc test point</b>	90 °C
<b>Max.housing temperature in case of fault</b>	115 °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

<b>ECG lifetime</b>	50000 k, Tc MAX h
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## Capabilities

<b>Programming interface</b>	CASAMBI
<b>Dimmable</b>	Yes
<b>Dimming interface</b>	Bluetooth CASAMBI
<b>Dimming range</b>	0.4...100 %
<b>Dimming method</b>	PWM
<b>Max. cable length to lamp/LED module</b>	50 m <sup>1)</sup>
<b>Suitable for fixtures with prot. class</b>	I / II
<b>Suitable for emergency lighting</b>	No
<b>Type of connection, input side</b>	Screw terminal
<b>Type of connection, output side</b>	Screw terminal
<b>Suitable for through-wiring</b>	Yes
<b>Number of channels</b>	2
<b>Overheating protection</b>	Yes
<b>Overload protection</b>	Yes
<b>Short-circuit protection</b>	Yes
<b>Intended for no-load operation</b>	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
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## Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	30-03-2026
Primary Article Identifier	4052899632042   6937186115218
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.

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## Download Data

File		
Mandatory Publications	PDF	▶OT WI 24 4CH CA CE 4511161 02 200125
User instruction	PDF	▶OT Wi 160 24 2CH CA UI G15130929 040725

## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
6937186115218 INVENTRONICS	OT WI 160/220-240/24 2CH CA	Shipping carton box 20 Pieces	335 x 268 x 167 mm	14.99 dm <sup>3</sup>	399.74 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.