# CV dimmers with Bluetooth




## Areas of application

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

## Product family benefits

- Control of white, Tunable White, RGB, RGBW and RGBTW LED modules
- Independent housing for ceiling installation
- Support of systems based on CASAMBI lighting control solutions
- Minimal installation effort
- Dry contacts for optional connection to any commercial pushbutton

## Product family features

- Wireless 5-channel dimmer, with output voltage of 12, 24 and 48 V
- Control of LED modules up to 12 A
- Wireless module based on Bluetooth Low Energy


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## Technical data

### Electrical data

| Product description | Nominal input voltage | Nominal output voltage | U-OUT (working voltage) | Nominal output power | Galvanic isolation |
|---|---|---|---|---|---|
| OT BLE DIM | 12…24 V | 12…24 V | 24 V | 240 W | Non isolated |
| OT WI DIM 5CH CA | 12…48 V | 12…48 V | 48 V | 576 W [1)] | Non isolated |

| Product description | Output PWM frequency |
|---|---|
| OT BLE DIM | |
| OT WI DIM 5CH CA | 2 500 Hz |

[1)] 144 W @ 12 V288 W @ 24 V576 W @ 48 V

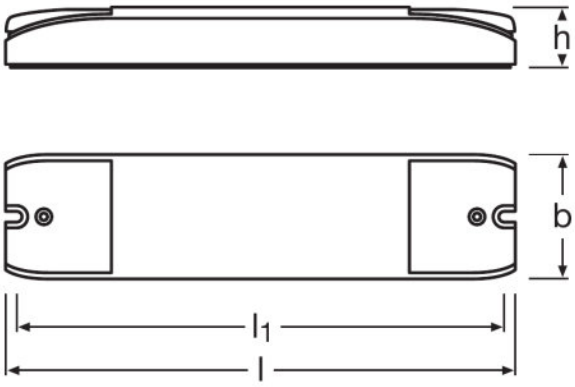
### Dimensions & weight

| Product description | Mounting hole spacing, length | Mounting length | Product weight | Cable cross-section, input side | Cable cross-section, output side |
|---|---|---|---|---|---|
| OT BLE DIM | 164.0 mm | 164.0 mm | 200.00 g | 0.5…1.5 mm² | 0.5…1.5 mm² |
| OT WI DIM 5CH CA | 175 mm | | 71.00 g | 0.2…1.5 mm² | 0.2…1.5 mm² |

| Product description | Wire preparation length, input side | Wire preparation length, output side | Height | Length | Width |
|---|---|---|---|---|---|
| OT BLE DIM | 10 mm | 10 mm | 20.0 mm | 172.0 mm | 42.0 mm |
| OT WI DIM 5CH CA | 9.0…10.0 mm | 9.0…10.0 mm | 22.0 mm | 186.0 mm | 29.0 mm |


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### Product line drawing




OT BLE DIM

### Colors & materials

| Product description | Casing material |
|---|---|
| OT BLE DIM | Plastic |
| OT WI DIM 5CH CA | Plastic |

### Temperatures & operating conditions

| Product description | Ambient temperature range | Maximum temperature at tc test point | Temperature range at storage | Permitted rel. humidity during operation |
|---|---|---|---|---|
| OT BLE DIM | -20…+45 °C | 65 °C | -40…+85 °C | 5…85 % [1)] |
| OT WI DIM 5CH CA | -10…+60 °C | 75 °C [2)] | -40…60 °C | 5…85 % [3)] |

[1)] Maximum 56 days/year at 85 %

[2)] Measured on tc point indicated of the product label.

[3)] Non-condensing



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### Lifespan

| Product description | ECG lifetime |
|---|---|
| OT BLE DIM | 50000 h [1] |
| OT WI DIM 5CH CA | |

[1] At $T_{case}$ = 65°C at $T_c$ point / 10% failure rate

### Capabilities

| Product description | Dimmable | Dimming interface | Dimming range | Dimming method |
|---|---|---|---|---|
| OT BLE DIM | Yes | Bluetooth Low Energie | 0...100 % | Pulse Width Modulation |
| OT WI DIM 5CH CA | Yes | | 0.8...100 % | Pulse Width Modulation |

| Product description | Overheating protection | Overload protection | No-load proof | Suitable for fixtures with prot. class |
|---|---|---|---|---|
| OT BLE DIM | Yes [1] | Yes [1] | Yes | III |
| OT WI DIM 5CH CA | Yes [1] | Yes [1] | | I / II |

| Product description | Type of connection, output side | Number of channels | Short-circuit protection |
|---|---|---|---|
| OT BLE DIM | Screw terminal | 4 | |
| OT WI DIM 5CH CA | Push terminal | 5 | Yes |

| Product description | Intended for no-load operation |
|---|---|
| OT BLE DIM | |
| OT WI DIM 5CH CA | No |

[1] In combination with OPTOTRONIC power supply

### Certificates & standards

| Product description | Approval marks – approval | Standards | Type of protection |
|---|---|---|---|
| OT BLE DIM | CE | Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61347-2-11/Acc. to ETSI EN 300 328/Acc. to ETSI EN 301 489-17 | IP20 |
| OT WI DIM 5CH CA | CE / UKCA | Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61347-1/Acc. to EN 61347-2-13 | IP20 |


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### Logistical data

| Product description | Commodity code |
|---|---|
| OT BLE DIM | 85371098990 |
| OT WI DIM 5CH CA | 85044095900 |

### Environmental information
### Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)

| Product description | Date of Declaration | Primary Article Identifier | Declaration No. in SCIP database |
|---|---|---|---|
| OT BLE DIM | 12-02-2022 | 4052899557833 | In work |
| OT WI DIM 5CH CA | 30-11-2023 | 4062172382274 | In work |

## Application advice

For more detailed application information and graphics please see product datasheet.

## Sales and Technical Support

Sales and Technical Support www.osram.com

## Download Data

| | File |
|---|---|
| | User instruction<br>OPTOTRONIC LED Power Supply |
| | User instruction<br>OPTOTRONIC LED Power Supply |
| | Product Datasheet<br>Product datasheet OT BLE DIM (EN) |
| | Brochures<br>OPTOTRONIC constant-voltage LED power supplies and controls (EN) |
| | Brochures<br>Light is smart color control - Intuitive light management (EN) |
| | Declarations of conformity<br>EU Declaration of Conformity 3595862 |
| | CAD data 3-dim<br>OT BLE DIM _ 3D igs file |
| | User instruction<br>OPTOTRONIC LED Power Supply OT Wi DIM 12 48 5CH CA |


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## Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---|---|---|---|---|---|
| 4052899557833 | OT BLE DIM | Shipping carton box<br>20 | 351 mm x 222 mm x 68 mm | 5.30 $dm^3$ | 4530.00 g |
| 4062172382274 | OT WI DIM 5CH CA | Shipping carton box<br>20 | 351 mm x 222 mm x 68 mm | 5.30 $dm^3$ | 1841.00 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.


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