

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

Product family datasheet

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

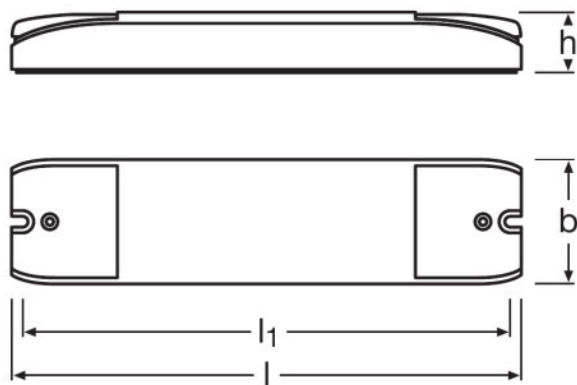
¹⁾ 144 W @ 12 V 288 W @ 24 V 576 W @ 48 V

Dimensions & weight

Product description	Mounting hole spacing, length	Mountin g length	Product weight	Cable cross-section, input side	Cable cross-section, output side
OT BLE DIM	164.0 mm	164.0 mm	20000 g	0.5...1.5 mm ²	0.5...1.5 mm ²
OT WI DIM 5CH CA	175 mm		71.00 g	0.2...1.5 mm ²	0.2...1.5 mm ²

Product description	Wire preparation length, input side	Wire preparation length, output side	Height	Width	Length
OT BLE DIM	10 mm	10 mm	200 mm	420 mm	1720 mm
OT WI DIM 5CH CA	9.0...10.0 mm	9.0...10.0 mm	22.0 mm	29.0 mm	186.0 mm

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

Product family datasheet

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

Product family datasheet

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

Product family datasheet

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 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 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.