

OT DIM

CV Dimmers with 1...10 V



Product family features

- Intelligent analog dimmer (1...10 V) with constant output voltage
- Dimming range: 0...100 %
- Cable clamp housing for independent mounting
- Device fits also for special applications where dimming below 1 % is required

Product family benefits

- 1...10 V control port basic isolated

Areas of application

- Suitable for indoor SELV installations

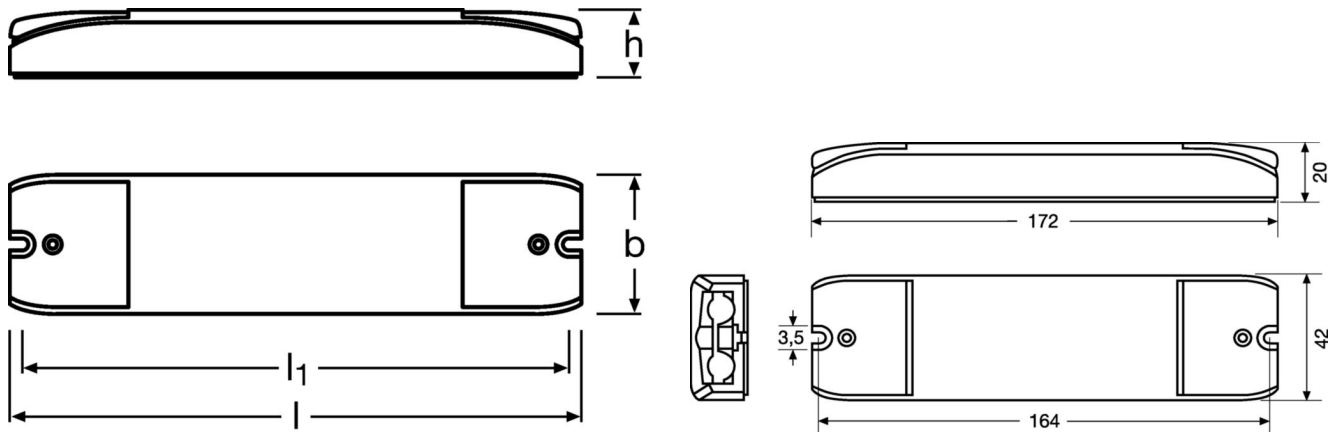
Technical data

Electrical data

Nominal input voltage	10...24 V
Mains frequency	0 Hz
Input voltage AC	10.5...24 V ¹⁾
Input voltage DC	10.5...24 V
Inrush current	not relevant
Max. ECG no. on circuit breaker 10 A (B)	not relevant
Max. ECG no. on circuit breaker 16 A (B)	not relevant
Surge capability (L/N-Ground)	not relevant
Surge capability (L-N)	not relevant kV
Nominal output voltage	10.5...24 V / 10.5...24 V
Nominal output power	120 W
Galvanic isolation	SELV equivalent

1) V_{DC}

Dimensions & weight



Length	172.0 mm
Width	42.0 mm
Height	20.0 mm
Mounting hole spacing, length	164.0 mm
Cable cross-section, input side	0.5...1.5 mm²
Cable cross-section, output side	0.5...1.5 mm²
Wire preparation length, input side	10 mm
Wire preparation length, output side	10 mm
Product weight	81.00 g

Colors & materials

Casing material	Plastic
Product color	White

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	70 °C
Max.housing temperature in case of fault	100 °C
Temperature range at storage	-25...85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

1) Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h
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Capabilities

Dimmable	Yes
Dimming interface	1...10 V
Dimming range	0...100 %
Dimming method	Amplitude Modulation / Pulse Width Modulation
Suitable for fixtures with prot. class	II
Type of connection, output side	Screw terminal
Overheating protection	Automatic reversible ¹⁾
Overload protection	Automatic reversible ¹⁾
Short-circuit protection	Automatic reversible ¹⁾
Intended for no-load operation	No
No-load proof	Yes

1) In combination with OPTOTRONIC power supply

Certificates & standards

Approval marks – approval	CE / VDE / VDE-EMC
Standards	Acc. to DIN VDE 0875/CISPR 15/EN 55015 / Acc. to EN 61547 / Acc. to EN 55015 / Acc. to EN 61547 / Acc. to EN 61046 / Acc. to IEC 61347-2-2 / Acc. to UL 508
Type of protection	IP20

Logistical data

Commodity code	85371098990
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	17-09-2024
Primary Article Identifier	4050300943459
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		
Brochures	PDF	▶ OPTOTRONIC constant-voltage LED power supplies and controls (EN)
Certificates	PDF	▶ OT DIM 10 24 VDE ENEC 40027477 200723
CAD data 3-dim	Compressed	▶ OT DIM _ 3D igs file
Mandatory Publications	PDF	▶ OT DIM CE 2648317 03 160823
Declarations of conformity	PDF	▶ 334844_Declaration of conformity OT Dimmer OT Sequencer

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4050300943459	OT DIM	Shipping carton box 20 Pieces	351 x 222 x 68 mm	5.30 dm ³	107.50 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.