

OT 20/220-240/24 DIM P

Optotronic - 24 V 1-10V



Product family features

- DC mode functionality
- Type of protection: IP66 and IP67
- Surge protection: up to 4 kV (L-N) / 6 kV (L/N-PE)
- Wide operating temperature range: -30...+55 °C
- Lifetime: up to 50,000 h (temperature at max. t_c)
- Dimmable via fully isolated 1...10 V interface

Product family benefits

- Large range of products from 20 W to 250 W
- Installation in very cold and hot environments
- Very stable output power
- High electrical reversible short-circuit, overload, overtemperature protection
- Smart Power Supply: boosting power to turn on cold LEDs
- Independent installation possible
- Dimming range: 1...100 %

Areas of application

- Facades, public squares, cruise ships
- Signage
- Suitable for indoor and outdoor installations

Technical data

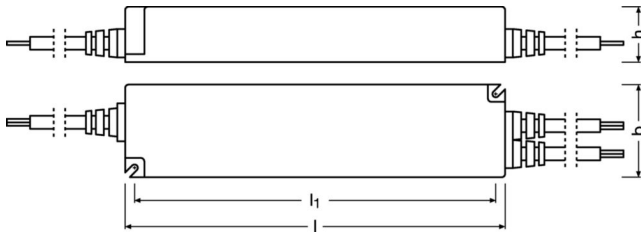
Electrical data

Nominal input voltage	220...240 V
Mains frequency	0...60 Hz
Input voltage AC	198...264 V
Input voltage DC	176...276 V
Total harmonic distortion	< 15 %
Power factor λ	0.95
Efficiency in full-load	83 % ¹⁾
Device power loss	3.4 W
Inrush current	20 A
Max. ECG no. on circuit breaker 10 A (B)	49
Max. ECG no. on circuit breaker 16 A (B)	77
Surge capability (L/N-Ground)	not relevant
Surge capability (L-N)	4 kV
Nominal output voltage	24.2 V
U-OUT (working voltage)	30 V
Output PSTLM	<1
Output SVM	<0.4
Nominal output power	20 W
Maximum output power	20 W ²⁾
Galvanic isolation	SELV

1) at 230 V, 50 Hz

2) at steady state

Dimensions & weight



Length	178.0 mm
Width	43.0 mm
Height	25.0 mm
Mounting hole spacing, length	169.0 mm
Mounting hole spacing, width	not relevant mm
Cable cross-section, input side	1.0 mm ²
Cable cross-section, output side	1.0 mm ²
Wire preparation length, input side	90 mm
Wire preparation length, output side	90 mm
Product weight	315.00 g

Colors & materials

Casing material	Plastic
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Temperatures & operating conditions

Ambient temperature range	-30...+55 °C
Maximum temperature at tc test point	85 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+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	1...100 %
Dimming method	Pulse Width Modulation
Suitable for fixtures with prot. class	II
Type of connection, output side	Cables
Number of channels	1
Overheating protection	Yes
Overload protection	Yes
Short-circuit protection	Yes
Intended for no-load operation	No
No-load proof	Yes

Certificates & standards

Approval marks – approval	ENEC / RCM / CCC / EAC
Standards	EN 61347-1 / EN 61347-2-13 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 61000-3-3 / EN 60598-1 / EN 62384
Type of protection	IP66

Logistical data

Commodity code	85044083900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	03-04-2026
Primary Article Identifier	4052899545809 6977770438347
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 20 220-240 24 DIM P 6977770438347 TDS 310326
CAD data 3-dim	Compressed	▶OT 20 220-240 24 DIM P-3D stp file
User instruction	PDF	▶G15130799 OT 20 40 60 100 130 250 24 DIM P

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
6977770438347 INVENTRONICS	OT 20/220-240/24 DIM P	Shipping carton box 20 Pieces	334 x 277 x 186 mm	17.21 dm ³	370.80 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.