

## OT FIT 18/220-240/450 CS PC SC (PHASE OUT)

OPTOTRONIC Phase-cut OT FIT | Compact constant current LED driver – Dimmable



### Product family features

- Cable clamp housing for independent mounting
- Dimmable on the leading edge and trailing edge
- Housing for independent installation

### Product family benefits

- Compatible with the most common leading-edge and trailing-edge phase dimmers
- Flexible current setting (DIPswitch – 2 to 4 currents)
- Flicker-free dimming
- Higher quality of light thanks to < 5% output ripple current
- Housing from 80% recycled plastic

## Areas of application

- Decorative illumination
- Downlights, flat luminaires
- Hospitality
- Living areas
- Museums, residential buildings
- Offices
- Shop lighting
- Suitable for indoor SELV installations
- Suitable for luminaires of protection class I and II

## Technical data

### Electrical data

Max. ECG no. on circuit breaker 10 A (B)	33
Max. ECG no. on circuit breaker 16 A (B)	53
Maximum output power	18 W
Nominal output current	225 mA / 325 mA / 350 mA / 450 mA <sup>1)</sup>
Nominal output power	18 W <sup>2)</sup>
Nominal output voltage	27...40 V <sup>3)</sup>
Nominal input voltage	220...240 V
Input voltage AC	198...264 V <sup>4)</sup>
Input voltage DC	not relevant
Device power loss	4.0 W <sup>5)</sup>
Efficiency in full-load	> 82 % <sup>6)</sup>
Galvanic isolation primary/secondary	SELV
Inrush current	< 10 A <sup>7)</sup>
Power factor $\lambda$	0.92C...0.97 <sup>8)</sup>
Mains frequency	50/60 Hz
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
U-OUT (working voltage)	60 V
Current set	DipSwitch
Output current tolerance	$\pm 7.5$ %
Output ripple current (100 Hz)	< 5 %
Protective conductor current	< 0.7 mA
Total harmonic distortion	< 20 % <sup>9)</sup>
Default output current	450 mA

1)  $\pm 7.5$  %

2) Partial load 6.1...18W

3) Maximum 60 V

4) Permitted voltage range

5) Maximum

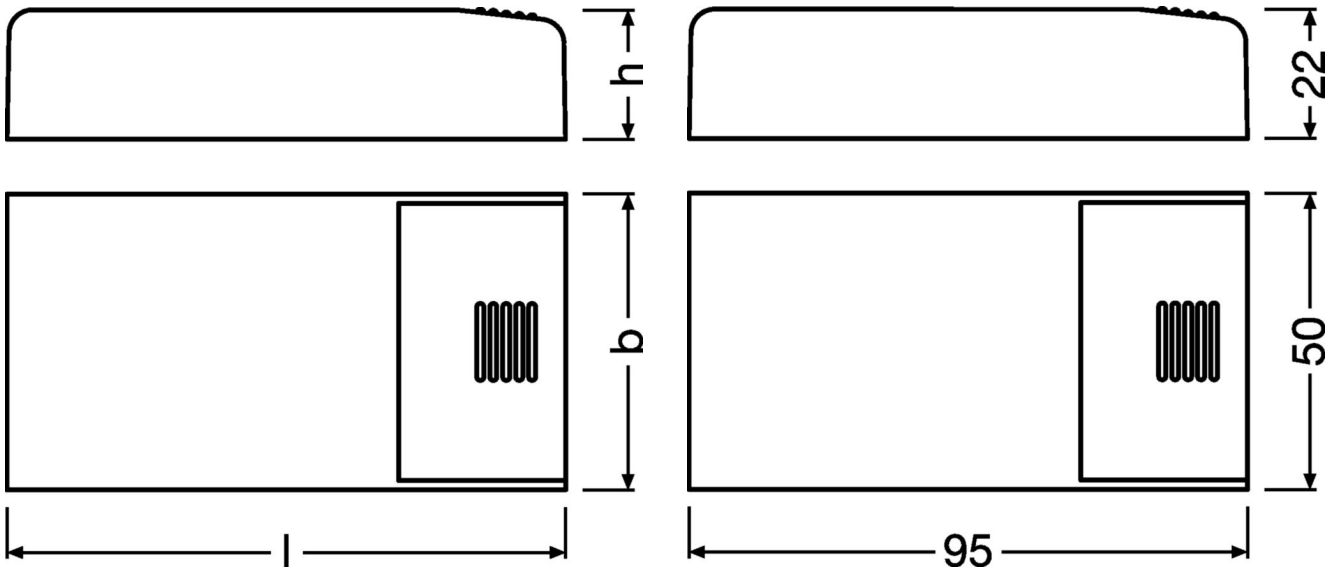
6) at 230 V, 50 Hz

7)  $t_{width} = 100 \mu s$  (measured at 50 %  $I_{peak}$ )

8) Full load at 230 V / Minimum load at 230 V

9) Full load, 230V, 50 Hz

## Dimensions & weight



Product weight	77.70 g
Length	95.0 mm
Height	22.0 mm
Width	50.0 mm
Cable cross-section, input side	0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
Cable cross-section, output side	0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
Cable/wire length, output side	2000 mm
Mounting hole spacing, length	not relevant mm
Mounting hole spacing, width	not relevant mm
Wire preparation length, input side	5...6 mm
Wire preparation length, output side	5...6 mm

1) Flexible / Solid leads

## Colors & materials

Casing material	Plastic
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## Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Max.housing temperature in case of fault	110 °C
Maximum temperature at tc test point	80 °C <sup>1)</sup>
Permitted rel. humidity during operation	5...85 % <sup>2)</sup>
Temperature range at storage	-20...80 °C

1) Maximum at the Tc-point

2) Non-condensing

## Lifespan

<b>ECG lifetime</b>	30000 h / 50000 h <sup>1)</sup>
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1) At maximum  $T_c = 80^\circ\text{C}$  / 10% failure rate / At maximum  $T_c = 70^\circ\text{C}$  / 10% failure rate

## Capabilities

<b>Max. cable length to lamp/LED module</b>	2.0 m <sup>1)</sup>
<b>Number of channels</b>	1
<b>Dimmable</b>	Yes
<b>Dimming interface</b>	Phase Cut <sup>2)</sup>
<b>Dimming method</b>	Amplitude Modulation
<b>Dimming range</b>	5...100 %
<b>Overload protection</b>	Automatic reversible
<b>Overheating protection</b>	Automatic reversible
<b>Short-circuit protection</b>	Automatic reversible
<b>Suitable for through-wiring</b>	No
<b>Suitable for fixtures with prot. class</b>	I / II
<b>Type of connection, input side</b>	Screw terminal
<b>Type of connection, output side</b>	Screw terminal
<b>No-load proof</b>	Yes

1) Output wires must be routed as close as possible to each other

2) Leading edge / Trailing edge

## Certificates & standards

Type of protection	IP20
Standards	Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 / Acc. to CISPR 15 / Acc. to IEC 61000-3-2 / Acc. to IEC 61000-3-3 / Acc. to IEC 61547
Approval marks – approval	CE / CCC / ENEC / EAC / RCM

## 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	29-07-2024
Primary Article Identifier	4062172088701
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		
Certificates	PDF	▶ OT FIT CS PC EAC B 02474 20 110221
Certificates	PDF	▶ OT FIT 8 18 CS PC ENEC 35 115271 01 130723
CAD data	Compressed	▶ OT FIT 8 18 CS PC STEP 160620
User instruction	PDF	▶ UI OT FIT 8 18 CS PC



## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172088701	OT FIT 18/220-240/450 CS PC SC	Shipping carton box 20 Pieces	264 x 202 x 64 mm	3.41 dm <sup>3</sup>	77.75 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.