# OPTOTRONIC FIT CS G3

Constant Current Compact – Non dimmable




## Areas of application

- Suitable for downlights, spotlights and LED panels
- Suitable for luminaires of protection classes I and II

## Product family benefits

- Higher quality of light thanks to low output ripple current
- High flexibility due to four different output currents
- Small housing for flexible luminaire designs
- High efficiency

## Product family features

- Lifetime: up to 50,000 h (temperature at max. $t_c$ )
- Cable clamp kit for independent mounting


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## Technical data

### Electrical data

| Product description | Nominal input voltage | Mains frequency | Input voltage AC | Total harmonic distortion | Power factor λ |
|---|---|---|---|---|---|
| OT FIT 20/220…240/500 CS | 220…240 V | 50/60 Hz | 198…264 V | < 10 % [1] | 0.98 |
| OT FIT 30/220…240/700 CS | 220…240 V | 50/60 Hz | 198…264 V [5] | < 10 % [1] | 0.98 [6] |
| OT FIT 40/220…240/1A0 CS | 220…240 V | 50/60 Hz | 198…264 V | < 10 % [1] | 0.98 |

| Product description | Efficiency in full-load | Device power loss | Protective conductor current | Inrush current | Max. ECG no. on circuit breaker 10 A (C) |
|---|---|---|---|---|---|
| OT FIT 20/220…240/500 CS | 88 % [2] | 3.0 W [3] | <0.7 mA | ≤ 4 A [4] | 57 |
| OT FIT 30/220…240/700 CS | 89 % [2] | 3.6 W [7] | <0.7 mA | ≤ 5 A [8] | 41 |
| OT FIT 40/220…240/1A0 CS | 90 % [2] | 4.9 W [10] | <0.7 mA | ≤ 35 A [11] | 19 |

| Product description | Max. ECG no. on circuit breaker 10 A (B) | Max. ECG no. on circuit breaker 16 A (C) | Max. ECG no. on circuit breaker 16 A (B) | Max. ECG no. on circuit breaker 25 A (B) | Surge capability (L/N-Ground) |
|---|---|---|---|---|---|
| OT FIT 20/220…240/500 CS | 38 | 91 | 60 | 94 | 2 kV |
| OT FIT 30/220…240/700 CS | 27 | 66 | 44 | 68 | 2 kV |
| OT FIT 40/220…240/1A0 CS | 11 | 31 | 19 | 29 | 2 kV |

| Product description | Surge capability (L-N) | Nominal output voltage | U-OUT (working voltage) | Nominal output current | Output current tolerance |
|---|---|---|---|---|---|
| OT FIT 20/220…240/500 CS | 1 kV | 23…42 V | 60 V | 250 / 350 / 450 / 500 mA | ±6.5 % |
| OT FIT 30/220…240/700 CS | 1 kV | 23…42 V | 60 V | 500 / 600 / 650 / 700 mA | ±7.5 % |
| OT FIT 40/220…240/1A0 CS | 1 kV | 25…42 / 30…42 V [12] | 60 V | 800 / 900 / 950 / 1050 mA | ±7.5 % |

| Product description | Default output current | Output ripple current (100 Hz) | Output PSTLM |
|---|---|---|---|
| OT FIT 20/220…240/500 CS | 500 mA | < 5 % | ≤1 |
| OT FIT 30/220…240/700 CS | 700 mA | < 5 % [9] | ≤1 |
| OT FIT 40/220…240/1A0 CS | 1050 mA | < 5 % | ≤1 |

| Product description | Output SVM | Nominal output power | Maximum output power | Current set |
|---|---|---|---|---|
| OT FIT 20/220…240/500 CS | ≤0.4 | 5.8…21 W | 21 W | DipSwitch |
| OT FIT 30/220…240/700 CS | ≤0.4 | 11.5…29.4 W | 29.4 W | DipSwitch |
| OT FIT 40/220…240/1A0 CS | ≤0.4 | 20…44.1 W | 44.1 W | DipSwitch |

[1] At full load, 230 V, 50 Hz / see graphs


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2) at 230 V, 50 Hz

3) At 230 V, Input power 24 W max.

4) $t_{width}$ = 50 µs typical (measured at 50 % $I_{peak}$)

5) Permitted voltage range

6) Full load at 230 V/50 Hz

7) At 230 V, Input power 33 W max.

8) $t_{width}$ = 70 µs (measured at 50 % $I_{peak}$)

9) Ripple average at 100 Hz

10) At 230 V, Input power 49 W max.

11) $t_{width}$ = 200 µs (measured at 50 % $I_{peak}$)

12) 30 - 42V @ 1050 mA

### Dimensions & weight

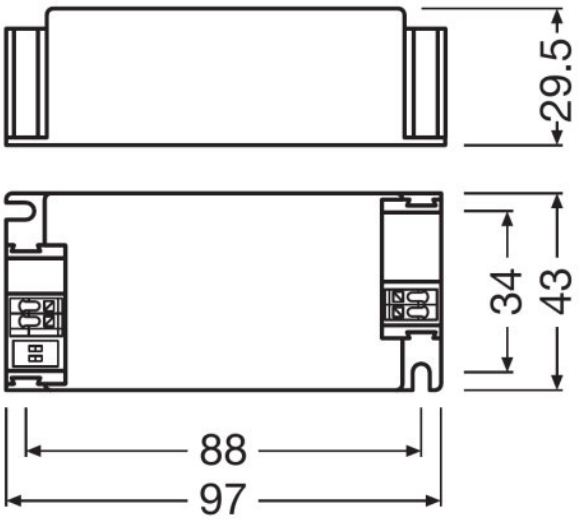
| Product description | Mounting hole spacing, length | Mounting hole spacing, width | Product weight | Cable cross-section, input side | Cable cross-section, output side |
|---|---|---|---|---|---|
| OT FIT 20/220…240/500 CS | 88.0 mm | 34.0 mm | 85.00 g | 0.5…1.5 mm² | 0.5…1.5 mm² |
| OT FIT 30/220…240/700 CS | 88.0 mm | 34.0 mm | 90.00 g | 0.5…1.5 mm² 1) | 0.5…1.5 mm² 1) |
| OT FIT 40/220…240/1A0 CS | 88.0 mm | 34.0 mm | 110.00 g | 0.5…1.5 mm² | 0.5…1.5 mm² |

| Product description | Wire preparation length, input side | Wire preparation length, output side | Height | Width | Length |
|---|---|---|---|---|---|
| OT FIT 20/220…240/500 CS | 7…8 mm | 7…8 mm | 29.5 mm | 43.0 mm | 97.0 mm |
| OT FIT 30/220…240/700 CS | 7…8 mm | 7…8 mm | 29.5 mm | 43.0 mm | 97.0 mm |
| OT FIT 40/220…240/1A0 CS | 7…8 mm | 7…8 mm | 29.5 mm | 43.0 mm | 97.0 mm |

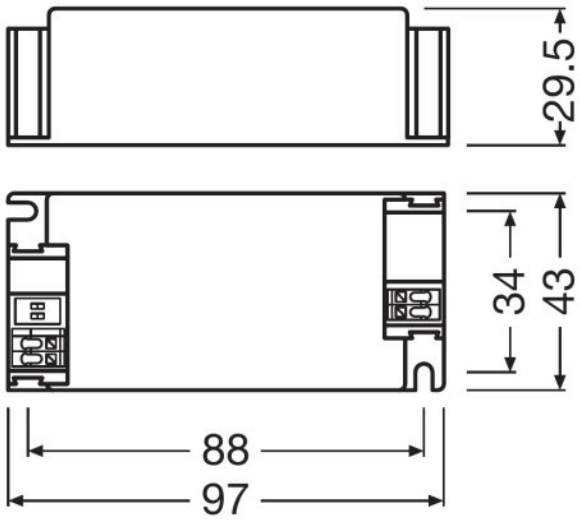
1) Solid/ Flexible Leads


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### Product line drawing




OT FIT 20/220...240/500 CS




OT FIT 30/220...240/700 CS, OT FIT 40/220...240/1A0 CS

### Colors & materials

| Product description | Casing material |
|---|---|
| OT FIT 20/220...240/500 CS | Plastic |
| OT FIT 30/220...240/700 CS | Plastic |
| OT FIT 40/220...240/1A0 CS | Plastic |

### Temperatures & operating conditions

| Product description | Ambient temperature range | Maximum temperature at tc test point | Max.housing temperature in case of fault | Temperature range at storage |
|---|---|---|---|---|
| OT FIT 20/220...240/500 CS | -20...+50 °C | 75 °C | 110 °C | -20...80 °C |
| OT FIT 30/220...240/700 CS | -20...+50 °C | 80 °C [2] | 110 °C | -20...80 °C |
| OT FIT 40/220...240/1A0 CS | -20...+50 °C | 80 °C | 110 °C | -20...80 °C |

| Product description | Permitted rel. humidity during operation |
|---|---|
| OT FIT 20/220...240/500 CS | 5...85 % [1] |
| OT FIT 30/220...240/700 CS | 5...85 % [1] |
| OT FIT 40/220...240/1A0 CS | 5...85 % [1] |

[1] Non-condensing

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


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### Lifespan

| Product description | ECG lifetime |
|---|---|
| OT FIT 20/220…240/500 CS | 50000 h [1] |
| OT FIT 30/220…240/700 CS | 50000 h [2] |
| OT FIT 40/220…240/1A0 CS | 50000 h [2] |

[1] At maximum $T_c$ = 75°C / 10% failure rate

[2] At maximum $T_c$ = 80°C / 10% failure rate

### Additional product data

| Product description | Predecessor EAN | Encapsulated |
|---|---|---|
| OT FIT 20/220…240/500 CS | 4052899435612 | |
| OT FIT 30/220…240/700 CS | 4052899435636 | No |
| OT FIT 40/220…240/1A0 CS | 4052899435650 | |

### Capabilities

| Product description | Dimmable | Overheating protection | Overload protection |
|---|---|---|---|
| OT FIT 20/220…240/500 CS | No | Automatic reversible | Automatic reversible |
| OT FIT 30/220…240/700 CS | No | Automatic reversible | Automatic reversible |
| OT FIT 40/220…240/1A0 CS | No | Automatic reversible | Automatic reversible |

| Product description | Short-circuit protection | No-load proof | Intended for no-load operation | Max. cable length to lamp/LED module |
|---|---|---|---|---|
| OT FIT 20/220…240/500 CS | Automatic reversible | Yes | No | 2.0 m [1] |
| OT FIT 30/220…240/700 CS | Automatic reversible | Yes | No | 2.0 m [1] |
| OT FIT 40/220…240/1A0 CS | Automatic reversible | Yes | No | 2.0 m [1] |

| Product description | Suitable for fixtures with prot. class | Type of connection, input side | Type of connection, output side |
|---|---|---|---|
| OT FIT 20/220…240/500 CS | I / II | Push terminal | Push terminal |
| OT FIT 30/220…240/700 CS | I / II | Push terminal | Push terminal |
| OT FIT 40/220…240/1A0 CS | I / II | Push terminal | Push terminal |

| Product description | Suitable for through-wiring | Control interface | Number of channels |
|---|---|---|---|
| OT FIT 20/220…240/500 CS | No | - | 1 |
| OT FIT 30/220…240/700 CS | No | - | 1 |
| OT FIT 40/220…240/1A0 CS | No | - | 1 |

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


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### Programming

| Product description | Programming device |
|---|---|
| OT FIT 20/220...240/500 CS | DIPswitch |
| OT FIT 30/220...240/700 CS | DIPswitch |
| OT FIT 40/220...240/1A0 CS | DIPswitch |

### Certificates & standards

| Product description | Approval marks – approval | Standards | Type of protection | Protection class |
|---|---|---|---|---|
| OT FIT 20/220...240/500 CS | CCC / CE / RCM / ENEC 05 | 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 | IP20 | I,II |
| OT FIT 30/220...240/700 CS | CCC / CE / RCM / ENEC 05 | 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 | IP20 | I,II |
| OT FIT 40/220...240/1A0 CS | CCC / CE / RCM / ENEC 05 | 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 | IP20 | I,II |

### Logistical data

| Product description | Commodity code |
|---|---|
| OT FIT 20/220...240/500 CS | 85044083900 |
| OT FIT 30/220...240/700 CS | 85044083900 |
| OT FIT 40/220...240/1A0 CS | 85044083900 |

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

| Product description | Date of Declaration | Primary Article Identifier | Candidate List Substance 1 |
|---|---|---|---|
| OT FIT 20/220...240/500 CS | 19-05-2023 | 4052899617315 | Lead |
| OT FIT 30/220...240/700 CS | 05-05-2023 | 4052899617322 | Lead |
| OT FIT 40/220...240/1A0 CS | 26-05-2023 | 4052899617339 | Lead |


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## Product family datasheet

| Product description | CAS No. of substance 1 | Safe Use Instruction | Declaration No. in SCIP database |
|---|---|---|---|
| OT FIT 20/220...240/500 CS | 7439-92-1 | The identification of the Candidate List substance is sufficient to allow safe use of the article. | f1c65e9d-a3eb-4d52-bda8-1102fd443a71 |
| OT FIT 30/220...240/700 CS | 7439-92-1 | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 65206567-378b-4e62-9d3c-6e39214c91a4 |
| OT FIT 40/220...240/1A0 CS | 7439-92-1 | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 06ee480d-1593-42d1-9ca2-8009fd63d4df |

### 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 |
| | Certificates<br>OT FIT CS ENEC 35 112395 180121 |
| | Declarations of conformity<br>OT FIT CS UK DoC 4290089 150322 |
| | Declarations of conformity<br>OT FIT CS CE 3667905 150322 |
| | CAD data<br>OT FIT 20 30 CS IGS 151020 |
| | CAD data<br>OT FIT 20 30 CS STEP 151020 |
| | CAD data 3-dim<br>OT FIT 20 30 CS CAD3PDF 151020 |
| | CAD data<br>OT FIT 40 CS IGS 151020 |
| | CAD data<br>OT FIT 40 CS STEP 151020 |


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| | |
|---|---|
| | CAD data 3-dim<br>OT FIT 40 CS CAD3PDF 151020 |

## 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.

## Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---|---|---|---|---|---|
| 4052899617315 | OT FIT 20/220...240/500 CS | Shipping carton box 20 | 228 mm x 208 mm x 78 mm | 3.70 $dm^3$ | 1903.00 g |
| 4052899617322 | OT FIT 30/220...240/700 CS | Shipping carton box 20 | 228 mm x 208 mm x 78 mm | 3.70 $dm^3$ | 1906.00 g |
| 4052899617339 | OT FIT 40/220...240/1A0 CS | Shipping carton box 20 | 228 mm x 208 mm x 78 mm | 3.70 $dm^3$ | 2403.00 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.

## Accessories Optional

| Product description | Accessory name | Accessory code |
|---|---|---|
| OT FIT 20/220...240/500 CS | OT CABLE CLAMP D-STYLE | 4052899077904 |
| OT FIT 30/220...240/700 CS | OT CABLE CLAMP D-STYLE | 4052899077904 |
| OT FIT 40/220...240/1A0 CS | OT CABLE CLAMP D-STYLE | 4052899077904 |

## Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.


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