

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

OPTOTRONIC FIT CS G3 | Constant Current Compact – Non dimmable



### Product family features

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

### 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

### Areas of application

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

## Technical data

### Electrical data

|  |                          |
|--|--------------------------|
| Nominal input voltage                    | 220...240 V              |
| Mains frequency                          | 50/60 Hz                 |
| Input voltage AC                         | 198...264 V              |
| Total harmonic distortion                | < 10 % <sup>1)</sup>     |
| Power factor $\lambda$                   | 0.98                     |
| Efficiency in full-load                  | 88 % <sup>2)</sup>       |
| Device power loss                        | 3.0 W <sup>3)</sup>      |
| Protective conductor current             | <0.7 mA                  |
| Inrush current                           | $\leq 4$ A <sup>4)</sup> |
| Max. ECG no. on circuit breaker 10 A (B) | 38                       |
| Max. ECG no. on circuit breaker 10 A (C) | 57                       |
| Max. ECG no. on circuit breaker 16 A (B) | 60                       |
| Max. ECG no. on circuit breaker 16 A (C) | 91                       |
| Max. ECG no. on circuit breaker 25 A (B) | 94                       |
| Surge capability (L/N-Ground)            | 2 kV                     |
| Surge capability (L-N)                   | 1 kV                     |
| Nominal output voltage                   | 23...42 V                |
| U-OUT (working voltage)                  | 60 V                     |
| Nominal output current                   | 250 / 350 / 450 / 500 mA |
| Output current tolerance                 | $\pm 6.5$ %              |
| Default output current                   | 500 mA                   |
| Output ripple current (100 Hz)           | < 5 %                    |
| Output PSTLM                             | $\leq 1$                 |
| Output SVM                               | $\leq 0.4$               |
| Nominal output power                     | 5.8...21 W               |
| Maximum output power                     | 21 W                     |
| Galvanic isolation                       | SELV                     |
| Current set                              | DipSwitch                |

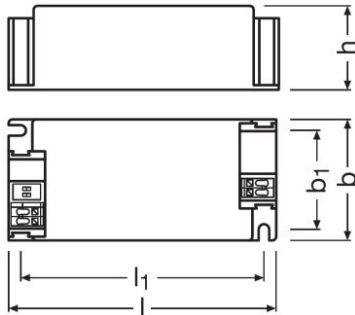
<sup>1)</sup> At full load, 230 V, 50 Hz / see graphs

<sup>2)</sup> at 230 V, 50 Hz

<sup>3)</sup> At 230 V, Input power 24 W max.

<sup>4)</sup>  $t_{width} = 50 \mu s$  typical (measured at 50 %  $I_{peak}$ )

## Dimensions & weight



|                                      |                           |
|--------------------------------------|---------------------------|
| Mounting hole spacing, length        | 88.0 mm                   |
| Mounting hole spacing, width         | 34.0 mm                   |
| Product weight                       | 85.00 g                   |
| Cable cross-section, input side      | 0.5...1.5 mm <sup>2</sup> |
| Cable cross-section, output side     | 0.5...1.5 mm <sup>2</sup> |
| Wire preparation length, input side  | 7...8 mm                  |
| Wire preparation length, output side | 7...8 mm                  |
| Length                               | 97.0 mm                   |
| Width                                | 43.0 mm                   |
| Height                               | 29.5 mm                   |

## Colors & materials

|                 |         |
|-----------------|---------|
| Casing material | Plastic |
|-----------------|---------|

## Temperatures & operating conditions

|  |                        |
|--|------------------------|
| Ambient temperature range                | -20...+50 °C           |
| Maximum temperature at tc test point     | 75 °C                  |
| Max.housing temperature in case of fault | 110 °C                 |
| Temperature range at storage             | -20...80 °C            |
| Permitted rel. humidity during operation | 5...85 % <sup>1)</sup> |

<sup>1)</sup> Non-condensing

## Lifespan

|              |                       |
|--------------|-----------------------|
| ECG lifetime | 50000 h <sup>1)</sup> |
|--------------|-----------------------|

<sup>1)</sup> At maximum  $T_c = 75^\circ\text{C}$  / 10% failure rate

## Additional product data

## Product datasheet

|                 |               |
|-----------------|---------------|
| Predecessor EAN | 4052899435612 |
|-----------------|---------------|

### Capabilities

|  |                      |
|--|----------------------|
| Dimmable                               | No                   |
| Overheating protection                 | Automatic reversible |
| Overload protection                    | Automatic reversible |
| Short-circuit protection               | Automatic reversible |
| No-load proof                          | Yes                  |
| Intended for no-load operation         | No                   |
| Max. cable length to lamp/LED module   | 2.0 m <sup>1)</sup>  |
| Suitable for fixtures with prot. class | I / II               |
| Type of connection, input side         | Push terminal        |
| Type of connection, output side        | Push terminal        |
| Suitable for through-wiring            | No                   |
| Control interface                      | -                    |
| Detection angle (Light sensor)         | -                    |
| Detection angle (PIR)                  | -                    |
| Number of channels                     | 1                    |

<sup>1)</sup> Output wires must be routed as close as possible to each other

### Programming

|                    |           |
|--------------------|-----------|
| Programming device | DIPswitch |
|--------------------|-----------|

### Certificates & standards

|                           |   |
|---------------------------|---|
| Approval marks – approval | CCC / CE / RCM / ENEC 05  |
| 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 |
| Type of protection        | IP20  |
| Protection class          | I,II  |

### Logistical data

|                |              |
|----------------|--------------|
| Commodity code | 850440829000 |
|----------------|--------------|








### Environmental information

|  |               |
|--|---------------|
| <b>Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)</b> |               |
| Date of Declaration  | 27-07-2022    |
| Primary Article Identifier   | 4052899617315 |
| Candidate List Substance 1   | Lead          |

## Product datasheet

|   |  |
|---|--|
| <b>CAS No. of substance 1</b>           | 7439-92-1  |
| <b>Safe Use Instruction</b>             | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| <b>Declaration No. in SCIP database</b> | 79141356-826F-4462-98B9-505D0D50BB93   |

### 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            |

### 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<br>CS | Shipping carton box<br>20    | 228 mm x 208 mm x 78 mm              | 3.70 dm <sup>3</sup> | 1903.00 g    |

## Product datasheet

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### Logistical Data

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.

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### Accessories Optional

| Product description        | Accessory name         | Accessory code  |
|----------------------------|------------------------|-----------------|
| OT FIT 20/220...240/500 CS | OT CABLE CLAMP D-STYLE | ▶ 4052899077904 |

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### Disclaimer

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