

## OT FIT 40/220...240/1A0 CS PC

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



## Product datasheet

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### 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

|  |                           |
|--|---------------------------|
| Nominal input voltage                    | 220...240 V               |
| Mains frequency                          | 50/60 Hz                  |
| Input voltage AC                         | 198...264 V               |
| Total harmonic distortion                | < 20 %                    |
| Power factor $\lambda$                   | > 0.95                    |
| Efficiency in full-load                  | 85 % <sup>1)</sup>        |
| Device power loss                        | 6.7 W <sup>2)</sup>       |
| Protective conductor current             | <0.7 mA                   |
| Inrush current                           | < 10 A <sup>3)</sup>      |
| Max. ECG no. on circuit breaker 10 A (B) | 18                        |
| Max. ECG no. on circuit breaker 10 A (C) | 18                        |
| Max. ECG no. on circuit breaker 16 A (B) | 28                        |
| Max. ECG no. on circuit breaker 16 A (C) | 28                        |
| Max. ECG no. on circuit breaker 25 A (B) | -                         |
| Surge capability (L/N-Ground)            | 2 kV                      |
| Surge capability (L-N)                   | 1 kV                      |
| Nominal output voltage                   | 27...40 V                 |
| U-OUT (working voltage)                  | 60 V                      |
| Nominal output current                   | 800 / 900 / 950 / 1050 mA |
| Output current tolerance                 | ±10 %                     |
| Output ripple current (100 Hz)           | < 5 %                     |
| Output PSTLM                             | ≤1                        |
| Output SVM                               | ≤0.4                      |
| Nominal output power                     | 21.6...42 W               |
| Maximum output power                     | 42 W                      |
| Galvanic isolation                       | SELV                      |
| Current set                              | DipSwitch                 |

<sup>1)</sup> at 230 V, 50 Hz

<sup>2)</sup> At Full load, 230 V, 50 Hz

<sup>3)</sup>  $t_{width} = 100 \mu s$  (measured at 50 %  $I_{peak}$ )

## Product datasheet

### Dimensions & weight



|                                      |                           |
|--------------------------------------|---------------------------|
| Mounting hole spacing, length        | 99.0 mm                   |
| Mounting hole spacing, width         | 58.0 mm                   |
| Product weight                       | 130.00 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  | 9.0...10.0 mm             |
| Wire preparation length, output side | 9.0...10.0 mm             |
| Length                               | 108.0 mm                  |
| Width                                | 67.0 mm                   |
| Height                               | 22.0 mm                   |

### Colors & materials

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

### Temperatures & operating conditions

|  |                        |
|--|------------------------|
| Ambient temperature range                | -20...+50 °C           |
| Maximum temperature at tc test point     | 80 °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 | 35000 / 50000 h <sup>1)</sup> |
|--------------|-------------------------------|

<sup>1)</sup> At maximum T<sub>c</sub> = 80°C / 10% failure rate / At maximum T<sub>c</sub> = 70°C / 10% failure rate

### Capabilities

## Product datasheet

|  |                         |
|--|-------------------------|
| Dimmable                               | Yes                     |
| Dimming interface                      | Phase Cut <sup>1)</sup> |
| Dimming range                          | 5...100 %               |
| Dimming method                         | Amplitude Modulation    |
| 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                   |
| Suitable for fixtures with prot. class | I / II                  |
| Type of connection, input side         | Push terminal           |
| Type of connection, output side        | Push terminal           |
| Control interface                      | -                       |
| Detection angle (Light sensor)         | -                       |
| Detection angle (PIR)                  | -                       |
| Number of channels                     | 1                       |

<sup>1)</sup> Leading edge / Trailing edge

### Programming

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



### Certificates & standards

|                           |  |
|---------------------------|--|
| Approval marks – approval | CE   |
| Standards                 | Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61547/Acc. to IEC 61000-3-3 |
| Protection class          | II   |
| Type of protection        | IP20   |

### Logistical data






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

### Download Data

| File   |
|--|
|  User instruction<br>OPTOTRONIC LED Power Supply          |
|  Addon Technical Information<br>OT FIT 40 PC CS DL 181120 |

## Product datasheet

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|   |  |
|---|--|
|  | Certificates<br>OT FIT 40 CS PC ENEC 35 114114 110221            |
|  | Declarations of conformity<br>OT FIT CS PC CE 3789414 190821     |
|  | Declarations of conformity<br>OT FIT CS PC UK DoC 4290101 180221 |
|  | CAD data<br>OT FIT 40 CS PC STEP 290621                          |
|  | CAD data 3-dim<br>OT FIT 40 CS PC CAD3PDF 290621                 |

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### 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.

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### Logistical Data

| Product code  | Product description              | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume               | Gross weight |
|---------------|----------------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899617261 | OT FIT 40/220...240/1A0<br>CS PC | Shipping carton box<br>20    | 367 mm x 228 mm x 64 mm              | 5.36 dm <sup>3</sup> | 2779.00 g    |

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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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### Disclaimer

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