# OT FIT 300/220...240/1A6 D NFC IND L

OPTOTRONIC FIT D NFC IND L | Linear / Area Constant Current – Non dimmable

## Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 300 W
- Supply voltage: 220...240 V
- Available with output current range: up to 1,600 mA
- Constant Lumen Output (CLO)
- Non-isolated drivers

## Product family benefits

- Flexible and future-proof current setting via NFC and LT2
- Lifetime: up to 100,000 h (temperature at $T_c$ = 75 °C, max. 10 % failure rate)
- Wide operating temperature range: -40...+65 °C
- High quality of light thanks to <1% output ripple current
- High surge protection: up to 4 kV (L-N) / 4 kV (L/N-PE)
- Very high efficiency (up to 96%)
- Integrated inrush current limiter
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

## Areas of application

- Linear lighting solutions for industry, storage areas and retail applications
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for installation in emergency lighting systems according to EN 60598-2-22
- Suitable for luminaires of protection class I

Technical data

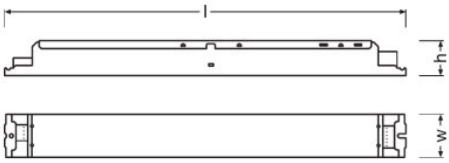
## Electrical data

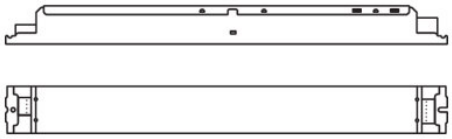
| | |
|---|---|
| **Nominal input voltage** | 220…240 V |
| **Mains frequency** | 0/50/60 Hz |
| **Input voltage AC** | 198…264 V |
| **Input voltage DC** | 176…276 V |
| **Current set** | NFC / LEDset |
| **Power factor λ** | 0.69C…0.99 |
| **Efficiency in full-load** | 96 % [1)] |
| **Device power loss** | 16 W |
| **Inrush current** | ≤ 6 A |
| **Max. ECG no. on circuit breaker 10 A (B)** | 7 |
| **Max. ECG no. on circuit breaker 10 A (C)** | 7 |
| **Max. ECG no. on circuit breaker 16 A (B)** | 11 |
| **Max. ECG no. on circuit breaker 16 A (C)** | 11 |
| **Max. ECG no. on circuit breaker 25 A (B)** | 17 |
| **Surge capability (L/N-Ground)** | 4 kV |
| **Surge capability (L-N)** | 4 kV |
| **Nominal output voltage** | 60…300 V |
| **Nominal output current** | 250…1550 mA |
| **Default output current** | 250 mA |
| **Output ripple current (100 Hz)** | ≤ 1 % |
| **Output PSTLM** | ≤1 |
| **Output SVM** | ≤0.4 |
| **Nominal output power** | 40…300 W [2)] |
| **Maximum output power** | 300 W [2)] |
| **Galvanic isolation** | Non isolated |
| **Total harmonic distortion** | 7 % |

1) at 230 V, 50 Hz

2) 200W in DC supply mode

## Dimensions & weight



| | |
|---|---|
| **Mounting hole spacing, length** | 340.0 mm |
| **Product weight** | 450.00 g |
| **Cable cross-section, input side** | 0.5…1.5 mm² |
| **Cable cross-section, output side** | 0.5…1.5 mm² |
| **Wire preparation length, input side** | 8.5…9.5 mm |
| **Wire preparation length, output side** | 8.5…9.5 mm |
| **Length** | 360.0 mm |
| **Width** | 46.0 mm |
| **Height** | 28.0 mm |

## Colors & materials

| | |
|---|---|
| **Casing material** | Metal |

## Temperatures & operating conditions

| | |
|---|---|
| **Ambient temperature range** | -40…+65 °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** | 100000 h |

## Additional product data

| | |
|---|---|
| **Encapsulated** | No |

## 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** | 3.0 m [1)] |
| **Suitable for fixtures with prot. class** | I |
| **Suitable for emergency lighting** | Yes |
| **Control interface** | - |
| **Detection angle (Light sensor)** | - |
| **Detection angle (PIR)** | - |
| **Number of channels** | 1 |

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

## Programming

| | |
|---|---|
| **Box programming** | Yes |
| **Tuner4TRONIC** | Yes |
| **Tuner4TRONIC Field App** | Yes |
| **Programming device** | FEIG |

## Certificates & standards

| | |
|---|---|
| **Approval marks – approval** | CE / VDE-ENEC / EAC / CCC / BIS / RCM |
| **Standards** | Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 62386/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547 |
| **Type of protection** | IP20 |

## Logistical data

| | |
|---|---|
| **Commodity code** | 85044083900 |

## Environmental information

| **Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)** | |
|---|---|
| **Date of Declaration** | 04-10-2023 |
| **Primary Article Identifier** | 4062172186179 |
| **Candidate List Substance 1** | Lead |
| **CAS No. of substance 1** | 7439-92-1 |

| | |
|---|---|
| **Safe Use Instruction** | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| **Declaration No. in SCIP database** | 5eb2261f-bc3b-4e13-bfa0-573aa1f260d7 |

## Download Data

| | File |
|---|---|
| | User instruction<br>OPTOTRONIC LED Power Supply |
| | CAD data<br>OT FIT 300 D NFC IND L IGS 301120 |
| | CAD data<br>OT FIT 300 D NFC IND L STEP 301120 |
| | CAD Data 2-dim<br>OT FIT 300 D NFC IND L CAD2PDF 301120 |
| | CAD data 3-dim<br>OT FIT 300 D NFC IND L CAD3PDF 301120 |

## 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 |
|---|---|---|---|---|---|
| 4062172186179 | OT FIT 300/220...240/1A6 D NFC IND L | Shipping carton box<br>10 | 385 mm x 152 mm x 107 mm | 6.26 $dm^3$ | 4655.00 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.

## Disclaimer

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