

OPTOTRONIC FIT D NFC IND L

Linear / Area Constant Current – Non dimmable



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

Product family benefits

- Flexible and future-proof current setting via NFC and LT2
- Lifetime: up to 100,000 h (temperature at $T_C = 75\text{ }^\circ\text{C}$, max. 10 % failure rate)
- Wide operating temperature range: $-40\dots+65\text{ }^\circ\text{C}$
- 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

Product family datasheet

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 datasheet

Technical data

Electrical data

| Product description | Nominal input voltage | Mains frequency | Input voltage AC | Input voltage DC | Current set |
|--------------------------------------|-----------------------|-----------------|------------------|------------------|--------------|
| OT FIT 75/220...240/550 D NFC IND L | 220...240 V | 0/50/60 Hz | 198...264 V | 176...276 V | NFC |
| OT FIT 100/220...240/700 D NFC IND L | 220...240 V | 0/50/60 Hz | 198...264 V | 176...276 V | LEDset / NFC |
| OT FIT 150/220...240/1A0 D NFC IND L | 220...240 V | 0/50/60 Hz | 198...264 V | 176...276 V | LEDset / NFC |
| OT FIT 300/220...240/1A6 D NFC IND L | 220...240 V | 0/50/60 Hz | 198...264 V | 176...276 V | NFC / LEDset |

| Product description | Power factor λ | Efficiency in full-load | Device power loss | Inrush current | Max. ECG no. on circuit breaker 10 A (B) |
|--------------------------------------|------------------------|-------------------------|-------------------|----------------|--|
| OT FIT 75/220...240/550 D NFC IND L | 0.53C...0.98 | 94 % ¹⁾ | 8.0 W | ≤ 4 A | 20 |
| OT FIT 100/220...240/700 D NFC IND L | 0.85C...0.99 | 95 % ¹⁾ | 9.0 W | 4 A | 20 |
| OT FIT 150/220...240/1A0 D NFC IND L | 0.85C...0.99 | 95.5 % ¹⁾ | 11 W | 5 A | 14 |
| OT FIT 300/220...240/1A6 D NFC IND L | 0.69C...0.99 | 96 % ¹⁾ | 16 W | ≤ 6 A | 7 |

| Product description | Max. ECG no. on circuit breaker 10 A (C) | Max. ECG no. on circuit breaker 16 A (B) | Max. ECG no. on circuit breaker 16 A (C) | Max. ECG no. on circuit breaker 25 A (B) | Surge capability (L/N-Ground) |
|--------------------------------------|--|--|--|--|-------------------------------|
| OT FIT 75/220...240/550 D NFC IND L | - | 32 | - | - | 4 kV |
| OT FIT 100/220...240/700 D NFC IND L | - | 32 | - | - | 4 kV |
| OT FIT 150/220...240/1A0 D NFC IND L | - | 22 | - | - | 4 kV |
| OT FIT 300/220...240/1A6 D NFC IND L | 7 | 11 | 11 | 17 | 4 kV |

| Product description | Surge capability (L-N) | Nominal output voltage | Nominal output current | Default output current |
|--------------------------------------|------------------------|------------------------|------------------------|------------------------|
| OT FIT 75/220...240/550 D NFC IND L | 4 kV | 64...300 V | 125...550 mA | 125 mA |
| OT FIT 100/220...240/700 D NFC IND L | 4 kV | 64...300 V | 200...700 mA | 100 mA ²⁾ |
| OT FIT 150/220...240/1A0 D NFC IND L | 4 kV | 64...300 V | 250...1000 mA | 125 mA ²⁾ |
| OT FIT 300/220...240/1A6 D NFC IND L | 4 kV | 60...300 V | 250...1550 mA | 250 mA |

| Product description | Output ripple current (100 Hz) | Output PSTLM | Output SVM | Nominal output power |
|-------------------------------------|--------------------------------|--------------|------------|----------------------|
| OT FIT 75/220...240/550 D NFC IND L | ≤ 1 % | ≤1 | ≤0.4 | 8.0...75 W |

Product family datasheet

| Product description | Output ripple current (100 Hz) | Output PSTLM | Output SVM | Nominal output power |
|--------------------------------------|--------------------------------|--------------|------------|--------------------------|
| OT FIT 100/220...240/700 D NFC IND L | < 1 % | ≤1 | ≤0.4 | 28...100 W |
| OT FIT 150/220...240/1A0 D NFC IND L | < 1 % | ≤1 | ≤0.4 | 43...150 W |
| OT FIT 300/220...240/1A6 D NFC IND L | ≤ 1 % | ≤1 | ≤0.4 | 40...300 W ³⁾ |

| Product description | Maximum output power | Galvanic isolation | U-OUT (working voltage) | Output current LEDset open |
|--------------------------------------|----------------------|--------------------|-------------------------|----------------------------|
| OT FIT 75/220...240/550 D NFC IND L | 75 W | Non isolated | < 340 V | 65 mA |
| OT FIT 100/220...240/700 D NFC IND L | 100 W | Non isolated | < 340 V | 100 mA |
| OT FIT 150/220...240/1A0 D NFC IND L | 150 W | Non isolated | < 340 V | 125 mA |
| OT FIT 300/220...240/1A6 D NFC IND L | 300 W ³⁾ | Non isolated | | |

| Product description | Output current LEDset shorted | Total harmonic distortion | Output current tolerance |
|--------------------------------------|-------------------------------|---------------------------|--------------------------|
| OT FIT 75/220...240/550 D NFC IND L | 125 mA | 7 % | ±3 % |
| OT FIT 100/220...240/700 D NFC IND L | 200 mA | 7 % | ±3 % |
| OT FIT 150/220...240/1A0 D NFC IND L | 250 mA | 7 % | ±3 % |
| OT FIT 300/220...240/1A6 D NFC IND L | | 7 % | |

¹⁾ at 230 V, 50 Hz

²⁾ LEDset deactivated

³⁾ 200W in DC supply mode

Dimensions & weight

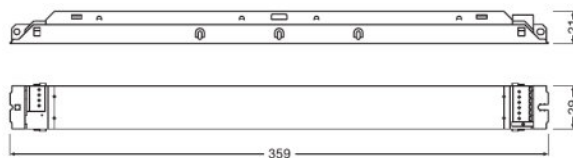
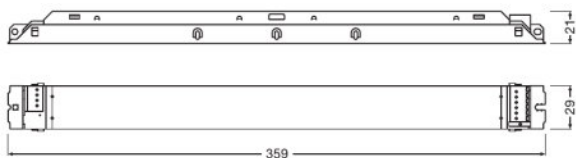
| Product description | Mounting hole spacing, length | Product weight | Cable cross-section, input side | Cable cross-section, output side | Wire preparation length, input side |
|--------------------------------------|-------------------------------|----------------|---------------------------------|----------------------------------|-------------------------------------|
| OT FIT 75/220...240/550 D NFC IND L | 350.0 mm | 265.00 g | 0.5...1.5 mm ² | 0.5...1.5 mm ² | 8.0...9.0 mm |
| OT FIT 100/220...240/700 D NFC IND L | 350.0 mm | 260.00 g | 0.5...1.5 mm ² | 0.5...1.5 mm ² | 8.0...9.0 mm |
| OT FIT 150/220...240/1A0 D NFC IND L | 350.0 mm | 260.00 g | 0.5...1.5 mm ² | 0.5...1.5 mm ² | 8.0...9.0 mm |
| OT FIT 300/220...240/1A6 D NFC IND L | 340.0 mm | 450.00 g | 0.5...1.5 mm ² | 0.5...1.5 mm ² | 8.5...9.5 mm |

| Product description | Length | Width | Height | Wire preparation length, output side |
|-------------------------------------|----------|---------|---------|--------------------------------------|
| OT FIT 75/220...240/550 D NFC IND L | 360.0 mm | 30.0 mm | 21.0 mm | 8.0...9.0 mm |

Product family datasheet

| Product description | Length | Width | Height | Wire preparation length, output side |
|--------------------------------------|----------|---------|---------|--------------------------------------|
| OT FIT 100/220...240/700 D NFC IND L | 360.0 mm | 30.0 mm | 21.0 mm | 8.0...9.0 mm |
| OT FIT 150/220...240/1A0 D NFC IND L | 360.0 mm | 30.0 mm | 21.0 mm | 8.0...9.0 mm |
| OT FIT 300/220...240/1A6 D NFC IND L | 360.0 mm | 46.0 mm | 28.0 mm | 8.5...9.5 mm |

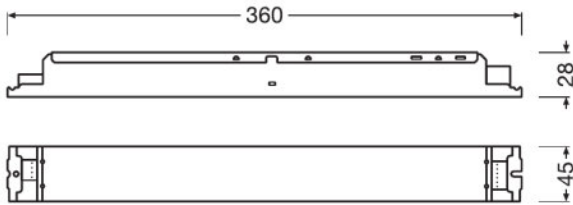
Product line drawing



OT FIT 100/220...240/700 D NFC IND L

OT FIT 150/220...240/1A0 D NFC IND L

Product family datasheet



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

Colors & materials

| Product description | Casing material |
|--------------------------------------|-----------------|
| OT FIT 75/220...240/550 D NFC IND L | Metal |
| OT FIT 100/220...240/700 D NFC IND L | Metal |
| OT FIT 150/220...240/1A0 D NFC IND L | Metal |
| OT FIT 300/220...240/1A6 D NFC IND L | Metal |

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 75/220...240/550 D NFC IND L | -40...+70 °C | 85 °C | 110 °C | -40...+85 °C |
| OT FIT 100/220...240/700 D NFC IND L | -40...+70 °C | 85 °C | 110 °C | -40...+85 °C |
| OT FIT 150/220...240/1A0 D NFC IND L | -40...+70 °C | 85 °C | 110 °C | -40...+85 °C |
| OT FIT 300/220...240/1A6 D NFC IND L | -40...+65 °C | 85 °C | 110 °C | -40...+85 °C |

| Product description | Permitted rel. humidity during operation |
|-------------------------------------|--|
| OT FIT 75/220...240/550 D NFC IND L | 5...85 % ¹⁾ |

Product family datasheet

| Product description | Permitted rel. humidity during operation |
|--------------------------------------|--|
| OT FIT 100/220...240/700 D NFC IND L | 5...85 % ¹⁾ |
| OT FIT 150/220...240/1A0 D NFC IND L | 5...85 % ¹⁾ |
| OT FIT 300/220...240/1A6 D NFC IND L | 5...85 % ¹⁾ |

¹⁾ Maximum 56 days/year at 85 %

Lifespan

| Product description | ECG lifetime |
|--------------------------------------|--------------------------------|
| OT FIT 75/220...240/550 D NFC IND L | 50000 / 100000 h ¹⁾ |
| OT FIT 100/220...240/700 D NFC IND L | 50000 / 100000 h ¹⁾ |
| OT FIT 150/220...240/1A0 D NFC IND L | 50000 / 100000 h ¹⁾ |
| OT FIT 300/220...240/1A6 D NFC IND L | 100000 h |

¹⁾ At maximum $T_c = 85^\circ\text{C}$ / 10% failure rate / At $T_{\text{case}} = 75^\circ\text{C}$ at T_c point / 10% failure rate

Additional product data

| Product description | Encapsulated |
|--------------------------------------|--------------|
| OT FIT 75/220...240/550 D NFC IND L | No |
| OT FIT 100/220...240/700 D NFC IND L | No |
| OT FIT 150/220...240/1A0 D NFC IND L | No |
| OT FIT 300/220...240/1A6 D NFC IND L | No |

Capabilities

| Product description | Dimmable | Overheating protection | Overload protection |
|--------------------------------------|----------|------------------------|----------------------|
| OT FIT 75/220...240/550 D NFC IND L | No | Automatic reversible | Automatic reversible |
| OT FIT 100/220...240/700 D NFC IND L | No | Automatic reversible | Automatic reversible |
| OT FIT 150/220...240/1A0 D NFC IND L | No | Automatic reversible | Automatic reversible |
| OT FIT 300/220...240/1A6 D NFC IND L | 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 75/220...240/550 D NFC IND L | Automatic reversible | Yes | No | 2.0 m ¹⁾ |

Product family datasheet

| Product description | Short-circuit protection | No-load proof | Intended for no-load operation | Max. cable length to lamp/LED module |
|--------------------------------------|--------------------------|---------------|--------------------------------|--------------------------------------|
| OT FIT 100/220...240/700 D NFC IND L | Automatic reversible | Yes | No | 5.0 m ¹⁾ |
| OT FIT 150/220...240/1A0 D NFC IND L | Automatic reversible | Yes | No | 5.0 m ¹⁾ |
| OT FIT 300/220...240/1A6 D NFC IND L | Automatic reversible | Yes | No | 3.0 m ¹⁾ |

| Product description | Suitable for fixtures with prot. class | Constant lumen function | Number of channels | Suitable for emergency lighting |
|--------------------------------------|--|-------------------------|--------------------|---------------------------------|
| OT FIT 75/220...240/550 D NFC IND L | I | Programmable | 1 | Yes |
| OT FIT 100/220...240/700 D NFC IND L | I | Programmable | 1 | Yes |
| OT FIT 150/220...240/1A0 D NFC IND L | I | Programmable | 1 | Yes |
| OT FIT 300/220...240/1A6 D NFC IND L | I | | 1 | Yes |

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

Programming

| Product description | Programming device |
|--------------------------------------|--------------------|
| OT FIT 75/220...240/550 D NFC IND L | FEIG |
| OT FIT 100/220...240/700 D NFC IND L | NFC / LEDset |
| OT FIT 150/220...240/1A0 D NFC IND L | NFC / LEDset |
| OT FIT 300/220...240/1A6 D NFC IND L | FEIG |

Product family datasheet

Certificates & standards

| Product description | Approval marks – approval | Standards | Type of protection |
|--------------------------------------|--|--|--------------------|
| OT FIT 75/220...240/550 D NFC IND L | CE / EL / VDE-ENEC / EAC / CCC / BIS / RCM | 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 | IP20 |
| OT FIT 100/220...240/700 D NFC IND L | CE / EL / VDE-ENEC / EAC / CCC / BIS / RCM | Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 62384/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61547 | IP20 |
| OT FIT 150/220...240/1A0 D NFC IND L | CE / EL / VDE-ENEC / EAC / CCC / BIS / RCM | Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 62384/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61547 | IP20 |
| OT FIT 300/220...240/1A6 D NFC IND L | CE / VDE-ENEC / EAC / CCC / BIS / RCM | 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 | IP20 |

Logistical data

| Product description | Commodity code |
|--------------------------------------|----------------|
| OT FIT 75/220...240/550 D NFC IND L | 85044083900 |
| OT FIT 100/220...240/700 D NFC IND L | 85044083900 |
| OT FIT 150/220...240/1A0 D NFC IND L | 85044083900 |
| OT FIT 300/220...240/1A6 D NFC IND L | 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 75/220...240/550 D NFC IND L | 31-07-2023 | 4062172139694 | Lead |
| OT FIT 100/220...240/700 D NFC IND L | 25-04-2023 | 4052899990128 | Lead |
| OT FIT 150/220...240/1A0 D NFC IND L | 28-04-2023 | 4052899990142 | Lead |
| OT FIT 300/220...240/1A6 D NFC IND L | 04-10-2023 | 4062172186179 | Lead |

Product family datasheet

| Product description | CAS No. of substance 1 | Safe Use Instruction | Declaration No. in SCIP database |
|--------------------------------------|------------------------|--|--------------------------------------|
| OT FIT 75/220...240/550 D NFC IND L | 7439-92-1 | The identification of the Candidate List substance is sufficient to allow safe use of the article. | d7089391-28e0-46f4-8504-25ee53dd1247 |
| OT FIT 100/220...240/700 D NFC IND L | 7439-92-1 | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 1dc0af62-66c6-43f1-b740-26a0bc71dcab |
| OT FIT 150/220...240/1A0 D NFC IND L | 7439-92-1 | The identification of the Candidate List substance is sufficient to allow safe use of the article. | c1eeaa88-ec2e-4643-8df9-451d68f91219 |
| OT FIT 300/220...240/1A6 D NFC IND L | 7439-92-1 | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 5eb2261f-bc3b-4e13-bfa0-573aa1f260d7 |

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 OPTOTRONIC LED Power Supply |
|  User instruction OPTOTRONIC LED Power Supply |
|  Certificates OT ENEC 40038085 010322 |
|  Declarations of conformity OT FIT D NFC IND L UK DoC 4281285 220322 |
|  Declarations of conformity OT FIT D NFC IND L CE 3695761 230322 |
|  User instruction OPTOTRONIC LED Power Supply |
|  Certificates OT EMC 40050085 200220 |
|  Certificates OT EMC 40044675 031022 |

Product family datasheet

| | |
|---|--|
|  | Declarations of conformity INOTEC-Conformity declaration AM16013 OT FIT 100 220-24 700 D NFC IND L (EN) |
|  | Declarations of conformity EATON(CEAG) Conformity declaration AM16013 OT FIT 100 220-240 700 D NFC IND L (EN) |
|  | CAD data OT FIT D NFC IND L IGS 281119 |
|  | CAD data OT FIT D NFC IND L STEP 281119 |
|  | CAD Data 2-dim OT FIT D NFC IND L CAD2PDF 281119 |
|  | CAD data 3-dim OT FIT D NFC IND L CAD3PDF 281119 |
|  | Declarations of conformity INOTEC-Conformity declaration AM15161 OT FIT 150 220-240 1A0 D NFC IND L (EN) |
|  | Declarations of conformity EATON(CEAG) Conformity declaration AM15161 OT FIT 150 220-240 1A0 D NFC IND L (EN) |
|  | User instruction OPTOTRONIC LED Power Supply |
|  | CAD data OT FIT 300 D NFC IND L IGS 301120 |
|  | CAD data OT FIT 300 D NFC IND L STEP 301120 |
|  | CAD Data 2-dim OT FIT 300 D NFC IND L CAD2PDF 301120 |
|  | CAD data 3-dim 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 |
|--------------|---------------------|------------------------------|--------------------------------------|--------|--------------|
|--------------|---------------------|------------------------------|--------------------------------------|--------|--------------|

Product family datasheet

Logistical Data

| | | | | | |
|---------------|--|---------------------------|--------------------------|----------------------|-----------|
| 4062172139694 | OT FIT 75/220...240/550 D NFC IND L | Shipping carton box 20 | 385 mm x 160 mm x 100 mm | 6.16 dm ³ | 5471.00 g |
| 4052899990128 | OT FIT 100/220...240/700 D NFC IND L | Shipping carton box 20 | 385 mm x 160 mm x 100 mm | 6.16 dm ³ | 5371.00 g |
| 4052899990142 | OT FIT 150/220...240/1A0 D NFC IND L | Shipping carton box 20 | 385 mm x 160 mm x 100 mm | 6.16 dm ³ | 5374.00 g |
| 4062172186179 | OT FIT 300/220...240/1A6 D NFC IND L | Shipping carton box 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.