

OPTOTRONIC FIT D NFC FL

Linear / Area Constant Current – Non dimmable



Areas of application

- Linear and area lighting
- Industry lighting
- Suitable for luminaires of protection class I

Product family benefits

- Flat housing (16 mm height) for innovative luminaire designs and applications
- Flexible and future-proof current setting via NFC (Near Field Communication)
- Lifetime: up to 100,000 h (temperature at $T_c = 65^\circ\text{C}$, max. 10 % failure rate)
- Higher quality of light thanks to < 1% output ripple current
- Very high efficiency
- Fulfill safety requirement due to overload, overtemperature protection

Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 75 W
- Constant Lumen Output (CLO)
- Supply voltage: 220...240 V
- Available with output current range: up to 500 mA
- 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 25/220...240/250 D NFC FL | 220...240 V | 0/50/60 Hz | 198...264 V | 176...276 V | NFC |
| OT FIT 35/220...240/400 D NFC FL | 220...240 V | 0/50/60 Hz | 198...264 V | 176...276 V | NFC |
| OT FIT 75/220...240/500 D NFC FL | 220...240 V | 0/50/60 Hz | 198...264 V | 176...276 V | NFC |

| Product description | Power factor λ | ECG efficiency | Device power loss | Inrush current | Max. ECG no. on circuit breaker 10 A (C) | Max. ECG no. on circuit breaker 10 A (B) |
|----------------------------------|------------------------|----------------|-------------------|----------------|--|--|
| OT FIT 25/220...240/250 D NFC FL | > 0.94 | up to 91 % | 2.0 W | 14.3 mA | - | 22 |
| OT FIT 35/220...240/400 D NFC FL | > 0.96 | up to 93 % | 4.0 W | 14.8 mA | - | 22 |
| OT FIT 75/220...240/500 D NFC FL | > 0.98 | up to 94 % | 6.0 W | 20.8 mA | - | 17 |

| Product description | 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 25/220...240/250 D NFC FL | 36 | - | - | 2 kV |
| OT FIT 35/220...240/400 D NFC FL | 36 | - | - | 2 kV |
| OT FIT 75/220...240/500 D NFC FL | 38 | - | - | 2 kV |

| Product description | Surge capability (L-N) | Nominal output voltage | Nominal output current | Default output current | Nominal output power |
|----------------------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
| OT FIT 25/220...240/250 D NFC FL | 1 kV | 54...216 V | 35...250 mA | 35 mA | 4...25 W |
| OT FIT 35/220...240/400 D NFC FL | 1 kV | 54...216 V | 75...400 mA | 35 mA | 6...35 W |
| OT FIT 75/220...240/500 D NFC FL | 1 kV | 54...216 V | 125...500 mA | 125 mA | 10...75 W |

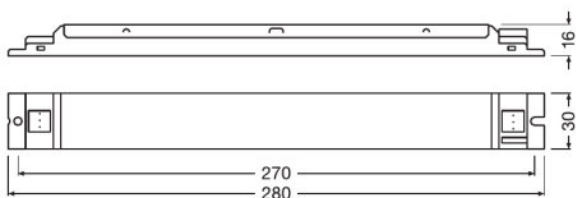
Dimensions & weight

| 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 25/220...240/250 D NFC FL | 270.0 mm | 205.00 g | 0.5...1.5 mm ² | 0.5...1.5 mm ² | 8.0...9.0 mm |
| OT FIT 35/220...240/400 D NFC FL | 270.0 mm | 205.00 g | 0.5...1.5 mm ² | 0.5...1.5 mm ² | 8.0...9.0 mm |
| OT FIT 75/220...240/500 D NFC FL | 270.0 mm | 205.00 g | 0.5...1.5 mm ² | 0.5...1.5 mm ² | 8.0...9.0 mm |

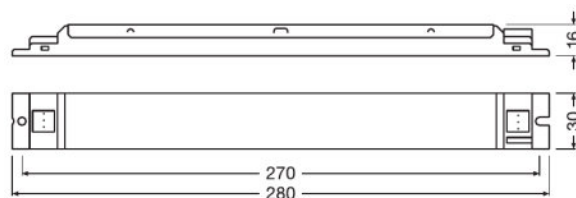
| Product description | Width | Height | Length |
|----------------------------------|---------|---------|----------|
| OT FIT 25/220...240/250 D NFC FL | 30.0 mm | 16.0 mm | 280.0 mm |
| OT FIT 35/220...240/400 D NFC FL | 30.0 mm | 16.0 mm | 280.0 mm |
| OT FIT 75/220...240/500 D NFC FL | 30.0 mm | 16.0 mm | 280.0 mm |

Product family datasheet

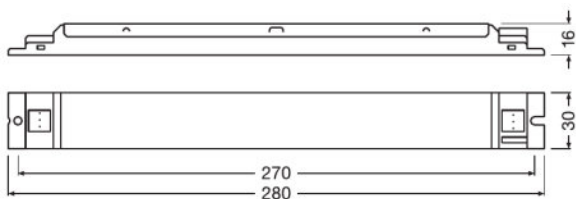
Product line drawing



OT FIT 25/220...240/250 D NFC FL



OT FIT 35/220...240/400 D NFC FL



OT FIT 75/220...240/500 D NFC FL

Product family datasheet

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 25/220...240/250 D NFC FL | -25...+60 °C | 75 °C | 110 °C | -40...+85 °C |
| OT FIT 35/220...240/400 D NFC FL | -25...+60 °C | 75 °C | 110 °C | -40...+85 °C |
| OT FIT 75/220...240/500 D NFC FL | -25...+60 °C | 75 °C | 110 °C | -40...+85 °C |

| Product description | Permitted rel. humidity during operation |
|----------------------------------|--|
| OT FIT 25/220...240/250 D NFC FL | 5...85 % ¹⁾ |
| OT FIT 35/220...240/400 D NFC FL | 5...85 % ¹⁾ |
| OT FIT 75/220...240/500 D NFC FL | 5...85 % ¹⁾ |

¹⁾ Maximum 56 days/year at 85 %

Lifespan

| Product description | ECG lifetime |
|----------------------------------|--------------|
| OT FIT 25/220...240/250 D NFC FL | 100000 h |
| OT FIT 35/220...240/400 D NFC FL | 100000 h |
| OT FIT 75/220...240/500 D NFC FL | 100000 h |

Additional product data

| Product description | Encapsulated |
|----------------------------------|--------------|
| OT FIT 25/220...240/250 D NFC FL | No |
| OT FIT 35/220...240/400 D NFC FL | No |
| OT FIT 75/220...240/500 D NFC FL | No |

Capabilities

| Product description | Dimmable | Overheating protection | Overload protection | |
|----------------------------------|----------|------------------------|----------------------|--|
| OT FIT 25/220...240/250 D NFC FL | No | Automatic reversible | Automatic reversible | |
| OT FIT 35/220...240/400 D NFC FL | No | Automatic reversible | Automatic reversible | |
| OT FIT 75/220...240/500 D NFC FL | No | Automatic reversible | Automatic reversible | |

| Product description | Short-circuit protection | No-load proof | Max. cable length to lamp/LED module | Suitable for fixtures with prot. class |
|----------------------------------|--------------------------|---------------|--------------------------------------|--|
| OT FIT 25/220...240/250 D NFC FL | Automatic reversible | Yes | 2.0 m | I |
| OT FIT 35/220...240/400 D NFC FL | Automatic reversible | Yes | 2.0 m | I |
| OT FIT 75/220...240/500 D NFC FL | Automatic reversible | Yes | 2.0 m | I |

| Product description | Number of channels |
|----------------------------------|--------------------|
| OT FIT 25/220...240/250 D NFC FL | 1 |

Product family datasheet

| Product description | Number of channels |
|----------------------------------|--------------------|
| OT FIT 35/220...240/400 D NFC FL | 1 |
| OT FIT 75/220...240/500 D NFC FL | 1 |

Programming

| Product description | Tuner4TRONIC | Tuner4TRONIC Field App | Programming device |
|----------------------------------|--------------|------------------------|--------------------|
| OT FIT 25/220...240/250 D NFC FL | Yes | No | FEIG |
| OT FIT 35/220...240/400 D NFC FL | Yes | No | FEIG |
| OT FIT 75/220...240/500 D NFC FL | Yes | No | FEIG |

Certificates & standards

| Product description | Approval marks – approval | Standards | Type of protection |
|----------------------------------|---------------------------------|--|--------------------|
| OT FIT 25/220...240/250 D NFC FL | CE / VDE-ENEC / EAC / CCC / BIS | 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 35/220...240/400 D NFC FL | CE / VDE-ENEC / EAC / CCC / BIS | 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 75/220...240/500 D NFC FL | CE / VDE-ENEC / EAC / CCC / BIS | 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 25/220...240/250 D NFC FL | 850440829000 |
| OT FIT 35/220...240/400 D NFC FL | 850440829000 |
| OT FIT 75/220...240/500 D NFC FL | 850440829000 |

Application advice






For more detailed application information and graphics please see product datasheet.
Attention: Only compatible for devices up to ANDROID 9

Sales and Technical Support

Product family datasheet

Sales and Technical Support www.osram.com

Download Data

| File |
|---|
|  User instruction OPTOTRONIC LED Power Supply |
|  Certificates OT FIT OTI DALI CB DE1 62965 270220 |
|  Certificates OT ENEC 40038085 200220 |
|  Certificates OT EMC 40044675 170420 |
|  Declarations of conformity OT FIT D NFC FL CE 3976681 281119 |

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|-------------------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4062172063920 | OT FIT 25/220...240/250 D NFC FL | Shipping carton box 20 | 300 mm x 128 mm x 106 mm | 4.07 dm ³ | 4223.00 g |
| 4062172063944 | OT FIT 35/220...240/400 D NFC FL | Shipping carton box 20 | 300 mm x 128 mm x 106 mm | 4.07 dm ³ | 4223.00 g |
| 4062172063968 | OT FIT 75/220...240/500 D NFC FL | Shipping carton box 20 | 300 mm x 128 mm x 106 mm | 4.07 dm ³ | 4223.00 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.