

PRODUCT FAMILY DATASHEET OPTOTRONIC FIT D L

Linear / Area Constant Current – Non dimmable



AREAS OF APPLICATION

- Linear lighting for office, education, industry, storage areas and retail
- 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

- Small housing design
- Fixed current
- Lifetime: up to 100,000 h (temperature at $T_c = 65^\circ\text{C}$, max. 10 % failure rate)
- High quality of light thanks to low output ripple current
- High efficiency
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

PRODUCT FAMILY FEATURES

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 50 W
- Supply voltage: 220...240 V
- Available with output current range: up to 350 mA
- Non-isolated drivers

TECHNICAL DATA

Electrical data

Product description	Nominal voltage	Mains frequency	Input voltage AC	Power factor λ	ECG efficiency	Device power loss	Max. ECG no. on circuit breaker 10 A (B)
OT FIT 30/220...240/125 D L	220...240 V	50...60 Hz	198...264 V ¹⁾	> 0.95	>90 % ²⁾	3.0 W ³⁾	35
OT FIT 50/220...240/250 D L	220...240 V	50...60 Hz	198...264 V ¹⁾	> 0.95 ⁶⁾	>90 % ²⁾	5.0 W ³⁾	35
OT FIT 50/220...240/350 D L	220...240 V	50...60 Hz	198...264 V ¹⁾	> 0.95 ⁶⁾	>90 % ²⁾	5.0 W ³⁾	35
OT FIT 50/220...240/300 D L	220...240 V	50...60 Hz	198...264 V ¹⁾	> 0.95	>90 %	5.0 W ³⁾	35

Product description	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)	Surge capability (L-N)
OT FIT 30/220...240/125 D L	56	-	2 kV	1 kV
OT FIT 50/220...240/250 D L	56	-	2 kV	1 kV
OT FIT 50/220...240/350 D L	56	-	2 kV	1 kV
OT FIT 50/220...240/300 D L	56	89	2 kV	1 kV

Product description	Nominal output voltage	Nominal output current	Nominal output power	Galvanic isolation primary/secondary
OT FIT 30/220...240/125 D L	54...216 V	125 mA ⁴⁾	6.8...27 W ⁵⁾	-
OT FIT 50/220...240/250 D L	54...216 V	250 mA ⁴⁾	13.5...54 W ⁷⁾	-
OT FIT 50/220...240/350 D L	54...150 V	350 mA ⁴⁾	18.9...52.5 W	-
OT FIT 50/220...240/300 D L	54...175 V	300 mA ⁸⁾	16.2...52.5 W	-

¹⁾ Permitted voltage range

²⁾ At full load and 230 V

³⁾ Maximum

⁴⁾ $\pm 10\%$

⁵⁾ Partial load 7...27 W

⁶⁾ Full load at 230 V

⁷⁾ Partial load 14...54 W

⁸⁾ $\pm 5\%$

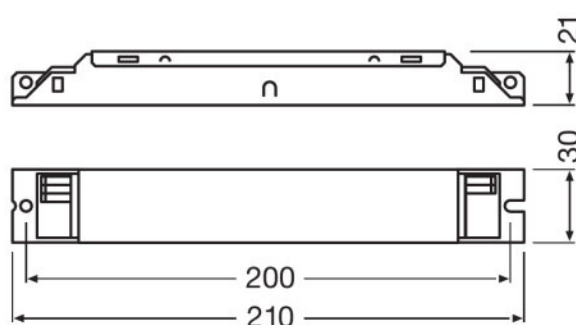
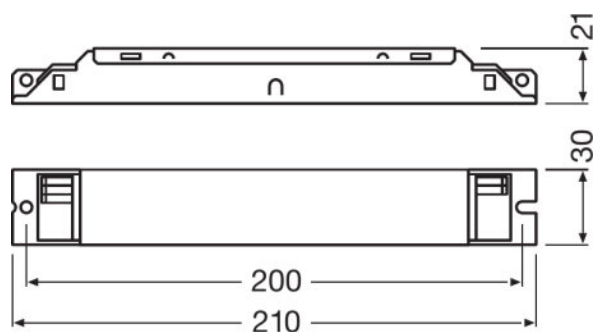
Dimensions & weight

Product description	Length	Width	Height	Mounting hole spacing, length	Mounting length	Product weight	Cable cross-section, input side
OT FIT 30/220...240/125 D L	210.0 mm	30.0 mm	21.0 mm	200.0 mm	200.0 mm	125.00 g	0.5...1.5 mm ^{2 1)}
OT FIT 50/220...240/250 D L	210.0 mm	30.0 mm	21.0 mm	200.0 mm	200.0 mm	125.00 g	0.5...1.5 mm ^{2 1)}
OT FIT 50/220...240/350 D L	210.0 mm	30.0 mm	21.0 mm	200.0 mm	200.0 mm	125.00 g	0.5...1.5 mm ^{2 1)}
OT FIT 50/220...240/300 D L	210.0 mm	30.0 mm	21.0 mm	200.0 mm		125.00 g	0.5...1.5 mm ²

Product description	Cable cross-section, output side	Wire preparation length, input side
OT FIT 30/220...240/125 D L	0.5...1.5 mm ^{2 1)}	8.5...9.5 mm
OT FIT 50/220...240/250 D L	0.5...1.5 mm ^{2 1)}	8.5...9.5 mm
OT FIT 50/220...240/350 D L	0.5...1.5 mm ^{2 1)}	8.5...9.5 mm
OT FIT 50/220...240/300 D L	0.5...1.5 mm ²	8.5...9.5 mm

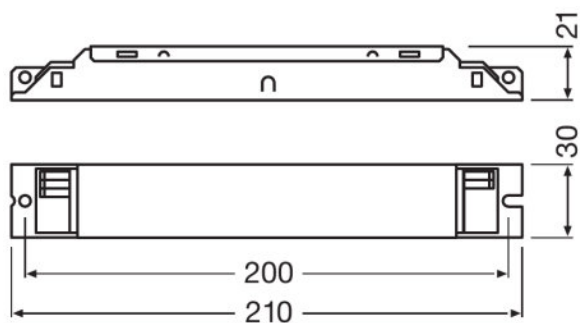
¹⁾ Solid or flexible leads

Product line drawing



OT FIT 30/220...240/125 D L

OT FIT 50/220...240/250 D L



OT FIT 50/220...240/350 D L, OT FIT 50/220...240/300 D L

Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Permitted rel. humidity during operation
OT FIT 30/220...240/125 D L	-15...+50 °C	75 °C ¹⁾	110 °C	5...85 % ²⁾
OT FIT 50/220...240/250 D L	-15...+50 °C	75 °C ¹⁾	110 °C	5...85 % ²⁾
OT FIT 50/220...240/350 D L	-15...+50 °C	75 °C ¹⁾	110 °C	5...85 % ²⁾
OT FIT 50/220...240/300 D L	-15...+50 °C	75 °C	110 °C	5...85 % ²⁾

¹⁾ Maximum at the T_c-point

²⁾ Maximum 56 days/year at 85 %

Lifespan

Product description	ECG lifetime
OT FIT 30/220...240/125 D L	50000 / 100000 h ¹⁾
OT FIT 50/220...240/250 D L	50000 / 100000 h ¹⁾
OT FIT 50/220...240/350 D L	50000 h ²⁾
OT FIT 50/220...240/300 D L	50000 / 100000 h ¹⁾

¹⁾ At maximum T_c = 75 °C / 10% failure rate

²⁾ At T_{case} = 75 °C at T_c point / 10% failure rate

Additional product data

Product description	Encapsulated
OT FIT 30/220...240/125 D L	No
OT FIT 50/220...240/250 D L	No
OT FIT 50/220...240/350 D L	No
OT FIT 50/220...240/300 D L	No

Capabilities

Product description	Dimmable	Overheating protection	Overload protection	Short-circuit protection
OT FIT 30/220...240/125 D L	No	Automatic reversible	Automatic reversible	Automatic reversible
OT FIT 50/220...240/250 D L	No	Automatic reversible	Automatic reversible	Automatic reversible
OT FIT 50/220...240/350 D L	No	Automatic reversible	Automatic reversible	Automatic reversible
OT FIT 50/220...240/300 D L	No	Automatic reversible	Automatic reversible	Automatic reversible

Product description	No-load proof	Max. cable length to lamp/LED module	Suitable for fixtures with prot. class
OT FIT 30/220...240/125 D L	Yes	2.0 m	I
OT FIT 50/220...240/250 D L	Yes	2.0 m	I
OT FIT 50/220...240/350 D L	Yes	2.0 m	I
OT FIT 50/220...240/300 D L	Yes	2.0 m	I

Certificates & standards

Product description	Approval marks – approval
OT FIT 30/220...240/125 D L	CE / EL / VDE-EMC / ENEC 10 / CCC / RCM
OT FIT 50/220...240/250 D L	CE / EL / VDE-EMC / ENEC 10 / CCC / RCM
OT FIT 50/220...240/350 D L	CE / EL / VDE-EMC / ENEC 10 / CCC / RCM
OT FIT 50/220...240/300 D L	CE / EL / VDE-EMC / ENEC 10 / CCC / RCM

Product description	Standards	Type of protection
OT FIT 30/220...240/125 D L	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 62384/Acc. to EN 62386	IP20
OT FIT 50/220...240/250 D L	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 62384/Acc. to EN 62386	IP20
OT FIT 50/220...240/350 D L	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 62384/Acc. to EN 62386	IP20
OT FIT 50/220...240/300 D L	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 62384/Acc. to EN 62386	IP20

Logistical data

Product description	Temperature range at storage
OT FIT 30/220...240/125 D L	-25...85 °C
OT FIT 50/220...240/250 D L	-25...85 °C
OT FIT 50/220...240/350 D L	-25...85 °C
OT FIT 50/220...240/300 D L	-25...85 °C

APPLICATION ADVICE

For more detailed application information and graphics please see product datasheet.

SALES AND TECHNICAL SUPPORT

Sales and Technical Support www.ledvance.com

DOWNLOAD DATA

File
 Product Datasheet 544589_data sheet OT FIT 30 125
 Certificates 730563_VDE Certificate
 Certificates VDE ENEC Certificate 40038085
 Certificates CCC Certificate 2017171002001468
 Certificates 544466_CD Test Certificate
 Declarations of conformity EU Declaration of Conformity 3366459
 Product Datasheet 544590_data sheet OF FIT 50 250
 Brochures 538835_Poster OPTOTRONIC LED drivers (EN)
 Product Datasheet 544591_data sheet OT FIT 50 250
 Product Datasheet 728917_OT FIT 50220240300 D L

LOGISTICAL DATA

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899222557	OT FIT 30/220...240/125 D L	Shipping carton box 20	234 mm x 161 mm x 101 mm	3.81 dm ³	2665.00 g
4052899222571	OT FIT 50/220...240/250 D L	Shipping carton box 20	234 mm x 161 mm x 101 mm	3.81 dm ³	2665.00 g
4052899222595	OT FIT 50/220...240/350 D L	Shipping carton box 20	234 mm x 161 mm x 101 mm	3.81 dm ³	2665.00 g
4052899469884	OT FIT 50/220...240/300 D L	Shipping carton box 20	234 mm x 161 mm x 101 mm	3.81 dm ³	2665.00 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.