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 °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

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

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 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 150/220...240/1A0 D NFC IND L	085C...099	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 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 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
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	Total harmonic distortion
OT FIT 75/220...240/550 D NFC IND L	75 W	Non isolated	7 %
OT FIT 150/220...240/1A0 D NFC IND L	150 W	Non isolated	7 %
OT FIT 300/220...240/1A6 D NFC IND L	300 W [3]	Non isolated	7 %

Product description	Output current LEDset shorted	Output current LEDset open	U-OUT (working voltage)	Output current tolerance
OT FIT 75/220...240/550 D NFC IND L	125 mA	65 mA	< 340 V	±3 %
OT FIT 150/220...240/1A0 D NFC IND L	250 mA	125 mA	< 340 V	±3 %
OT FIT 300/220...240/1A6 D NFC IND L				

[1] at 230 V, 50 Hz

[2] LEDset deactivated

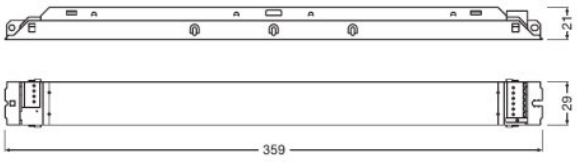
[3] 200W in DC supply mode

Dimensions & weight

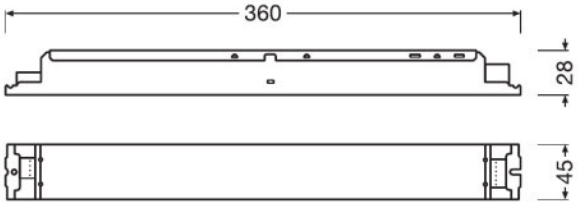
Product description	Mounting hole spacing, length	Product weight	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side
OT FIT 75/220...240/550 D NFC IND L	350.0 mm	265.00 g	0.5...1.5 mm²	0.5...1.5 mm²	8.0...9.0 mm
OT FIT 150/220...240/1A0 D NFC IND L	350.0 mm	26000 g	0.5...1.5 mm²	0.5...1.5 mm²	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 mm²	0.5...1.5 mm²	8.5...9.5 mm

Product description	Width	Wire preparation length, output side	Height	Length
OT FIT 75/220...240/550 D NFC IND L	30.0 mm	8.0...9.0 mm	21.0 mm	360.0 mm
OT FIT 150/220...240/1A0 D NFC IND L	300 mm	8.0...9.0 mm	210 mm	3600 mm
OT FIT 300/220...240/1A6 D NFC IND L	46.0 mm	8.5...9.5 mm	28.0 mm	360.0 mm

Product line drawing



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



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 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 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 description	Permitted rel. humidity during operation
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 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°C / 10% failure rate / At T_{case} = 75°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 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 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]
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	Suitable for emergency lighting	Constant lumen function	Number of channels
OT FIT 75/220...240/550 D NFC IND L	I	Yes	Programmable	1
OT FIT 150/220...240/1A0 D NFC IND L	I	Yes	Programmable	1
OT FIT 300/220...240/1A6 D NFC IND L	I	Yes		1

[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 150/220...240/1A0 D NFC IND L	NFC / LEDset
OT FIT 300/220...240/1A6 D NFC IND L	FEIG

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 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 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 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 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 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
	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)
	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
	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
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
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.