OPTOTRONIC FIT NFC L (SELV)

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 luminaires of protection class I

Product family benefits

- Flexible and future-proof current setting via NFC (Near Field Communication)
- Lifetime: up to 100,000 h (temperature at T_C = 65 °C, max. 10 % failure rate)
- Fulfilling SVM (≤ 0.4) and PsT (≤ 1.0) standards
- 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 1,400 mA
- SELV driver

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Technical data

Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Input voltage DC	Current set
OT FIT 25/220...240/500 NFC L	220...240 V	50/60 Hz	198...264 V	176...276 V	NFC
OT FIT 35/220...240/700 NFC L	220...240 V	50/60 Hz	198...264 V	176...276 V	NFC
OT FIT 55/220...240/1A0 NFC L	220...240 V	50/60 Hz	198...264 V	176...276 V	NFC
OT FIT 75/220...240/1A4 NFC L	220...240 V	50/60 Hz	198...264 V	176...276 V	NFC

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 25/220...240/500 NFC L	0.61C...0.95	87 % [1]	2.0 W	≤ 16 A	50
OT FIT 35/220...240/700 NFC L	0.74C...0.98	86 % [1]	3.0 W	≤ 16 A	40
OT FIT 55/220...240/1A0 NFC L	0.71C...0.96	90 % [1]	5.0 W	≤ 20 A	8
OT FIT 75/220...240/1A4 NFC L	0.84C...0.98	90 % [1]	7.0 W	≤ 40 A	8

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 25/220...240/500 NFC L	-	90	-	-	2 kV
OT FIT 35/220...240/700 NFC L	-	65	-	-	2 kV
OT FIT 55/220...240/1A0 NFC L	-	13	-	-	2 kV
OT FIT 75/220...240/1A4 NFC L	-	13	-	-	2 kV

Product description	Surge capability (L-N)	Nominal output voltage	Nominal output current	Output PSTLM
OT FIT 25/220...240/500 NFC L	1 kV	20...51 V	170...500 mA	≤1
OT FIT 35/220...240/700 NFC L	1 kV	20...51 V	250...700 mA	≤1
OT FIT 55/220...240/1A0 NFC L	1 kV	20...51 V	400...1050 mA	≤1
OT FIT 75/220...240/1A4 NFC L	1 kV	20...51 V	600...1400 mA	≤1

Product description	Output SVM	Nominal output power	Maximum output power
OT FIT 25/220...240/500 NFC L	≤0.4	8...25 W	25 W
OT FIT 35/220...240/700 NFC L	≤0.4	13...35 W	35 W
OT FIT 55/220...240/1A0 NFC L	≤0.4	21...55 W	55 W
OT FIT 75/220...240/1A4 NFC L	≤0.4	29...72 W	72 W

[1] at 230 V, 50 Hz

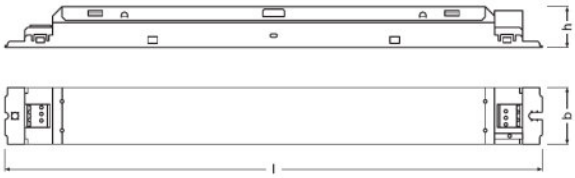
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Dimensions & weight

Product description	Mounting hole spacing, length	Product weight	Cable cross-section, input side	Wire preparation length, input side	Wire preparation length, output side
OT FIT 25/220...240/500 NFC L	270.0 mm	170.00 g	0.5...1.5 mm²	8.0...9.0 mm	8.0...9.0 mm
OT FIT 35/220...240/700 NFC L	270.0 mm	170.00 g	0.5...1.5 mm²	8.0...9.0 mm	8.0...9.0 mm
OT FIT 55/220...240/1A0 NFC L	270.0 mm	200.00 g	0.5...1.5 mm²	8.0...9.0 mm	8.0...9.0 mm
OT FIT 75/220...240/1A4 NFC L	270.0 mm	200.00 g	0.5...1.5 mm²	8.0...9.0 mm	8.0...9.0 mm

Product description	Height	Width	Length
OT FIT 25/220...240/500 NFC L	21.0 mm	30.0 mm	280.0 mm
OT FIT 35/220...240/700 NFC L	21.0 mm	30.0 mm	280.0 mm
OT FIT 55/220...240/1A0 NFC L	21.0 mm	30.0 mm	280.0 mm
OT FIT 75/220...240/1A4 NFC L	21.0 mm	30.0 mm	280.0 mm

Product line drawing



OT FIT 25/220...240/500 NFC L, OT FIT 35/220...240/700 NFC L, OT FIT 55/220...240/1A0 NFC L, OT FIT 75/220...240/1A4 NFC L

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Colors & materials

Product description	Casing material
OT FIT 25/220...240/500 NFC L	Metal
OT FIT 35/220...240/700 NFC L	Metal
OT FIT 55/220...240/1A0 NFC L	Metal
OT FIT 75/220...240/1A4 NFC 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 25/220...240/500 NFC L	-25...+60 °C	75 °C	110 °C	-40...+85 °C
OT FIT 35/220...240/700 NFC L	-25...+60 °C	75 °C	110 °C	-40...+85 °C
OT FIT 55/220...240/1A0 NFC L	-25...+50 °C	75 °C	110 °C	-40...+85 °C
OT FIT 75/220...240/1A4 NFC L	-25...+50 °C	75 °C	110 °C	-40...+85 °C

Product description	Permitted rel. humidity during operation
OT FIT 25/220...240/500 NFC L	5...85 % [1)]
OT FIT 35/220...240/700 NFC L	5...85 % [1)]
OT FIT 55/220...240/1A0 NFC L	5...85 % [1)]
OT FIT 75/220...240/1A4 NFC L	5...85 % [1)]

[1)] Maximum 56 days/year at 85 %

Lifespan

Product description	ECG lifetime
OT FIT 25/220...240/500 NFC L	100000 h
OT FIT 35/220...240/700 NFC L	100000 h
OT FIT 55/220...240/1A0 NFC L	100000 h
OT FIT 75/220...240/1A4 NFC L	100000 h

Capabilities

Product description	Dimmable	Overheating protection	Overload protection
OT FIT 25/220...240/500 NFC L	No	Automatic reversible	Automatic reversible
OT FIT 35/220...240/700 NFC L	No	Automatic reversible	Automatic reversible
OT FIT 55/220...240/1A0 NFC L	No	Automatic reversible	Automatic reversible
OT FIT 75/220...240/1A4 NFC 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 25/220...240/500 NFC L	Automatic reversible	Yes	No	2.0 m [1)]

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Product description	Short-circuit protection	No-load proof	Intended for no-load operation	Max. cable length to lamp/LED module
OT FIT 35/220...240/700 NFC L	Automatic reversible	Yes	No	2.0 m [1]
OT FIT 55/220...240/1A0 NFC L	Automatic reversible	Yes	No	2.0 m [1]
OT FIT 75/220...240/1A4 NFC L	Automatic reversible	Yes	No	2.0 m [1]

Product description	Suitable for fixtures with prot. class	Number of channels
OT FIT 25/220...240/500 NFC L	I	1
OT FIT 35/220...240/700 NFC L	I	1
OT FIT 55/220...240/1A0 NFC L	I	1
OT FIT 75/220...240/1A4 NFC L	I	1

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

Programming

Product description	Programming device
OT FIT 25/220...240/500 NFC L	FEIG
OT FIT 35/220...240/700 NFC L	FEIG
OT FIT 55/220...240/1A0 NFC L	FEIG
OT FIT 75/220...240/1A4 NFC L	FEIG

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Certificates & standards

Product description	Approval marks – approval	Standards	Type of protection
OT FIT 25/220...240/500 NFC 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
OT FIT 35/220...240/700 NFC 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
OT FIT 55/220...240/1A0 NFC 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
OT FIT 75/220...240/1A4 NFC 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 25/220...240/500 NFC L	85044083900
OT FIT 35/220...240/700 NFC L	85044083900
OT FIT 55/220...240/1A0 NFC L	85044083900
OT FIT 75/220...240/1A4 NFC 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 25/220...240/500 NFC L	24-05-2023	4062172063982	Lead
OT FIT 35/220...240/700 NFC L	24-05-2023	4062172064002	Lead
OT FIT 55/220...240/1A0 NFC L	24-05-2023	4062172064026	Lead
OT FIT 75/220...240/1A4 NFC L	24-05-2023	4062172064040	Lead

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Product family datasheet

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OT FIT 25/220...240/500 NFC L	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	e8b1aa42-4de4-4cfc-82d9-d12c85126b0c
OT FIT 35/220...240/700 NFC L	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	14be0b6b-bdab-4875-875a-957f9a691825
OT FIT 55/220...240/1A0 NFC L	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	022163c1-2dbe-4e74-98e0-c0246326132f
OT FIT 75/220...240/1A4 NFC L	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	02abfbc1-1667-4d08-9c86-d36cbdb0f6a7

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
	Certificates OT ENEC 40038447 260623
	Certificates OT EMC 40044675 031022
	Declarations of conformity OT FIT NFC L CE 4177403 150222
	Declarations of conformity OT FIT NFC L UK DoC 4281111 150222
	CAD data OT FIT NFC L IGS 030420
	CAD data OT FIT NFC L STEP 030420
	CAD Data 2-dim OT FIT NFC L CAD2PDF 030420

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CAD data 3-dim
OT FIT NFC L CAD3PDF 030420

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
4062172063982	OT FIT 25/220...240/500 NFC L	Shipping carton box 10	309 mm x 120 mm x 78 mm	2.89 dm^3	1801.00 g
4062172064002	OT FIT 35/220...240/700 NFC L	Shipping carton box 10	309 mm x 120 mm x 78 mm	2.89 dm^3	1801.00 g
4062172064026	OT FIT 55/220...240/1A0 NFC L	Shipping carton box 10	309 mm x 120 mm x 78 mm	2.89 dm^3	2101.00 g
4062172064040	OT FIT 75/220...240/1A4 NFC L	Shipping carton box 10	309 mm x 120 mm x 78 mm	2.89 dm^3	2101.00 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.

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