

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	Current set	Power factor λ
OT FIT 25/220...240/250 D NFC FL	220...240 V	0/50/60 Hz	198...264 V	NFC	> 0.94
OT FIT 35/220...240/400 D NFC FL	220...240 V	0/50/60 Hz	198...264 V	NFC	> 0.96
OT FIT 75/220...240/500 D NFC FL	220...240 V	0/50/60 Hz	198...264 V	NFC	> 0.98

Product description	Efficiency in full-load	Device power loss	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 10 A (C)
OT FIT 25/220...240/250 D NFC FL	91 % ¹⁾	2.0 W	14.3 mA	22	-
OT FIT 35/220...240/400 D NFC FL	92 % ¹⁾	4.0 W	14.8 mA	22	-
OT FIT 75/220...240/500 D NFC FL	93 % ¹⁾	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
OT FIT 25/220...240/250 D NFC FL	1 kV	54...216 V	35...250 mA	35 mA
OT FIT 35/220...240/400 D NFC FL	1 kV	54...216 V	75...400 mA	75 mA
OT FIT 75/220...240/500 D NFC FL	1 kV	54...216 V	125...500 mA	125 mA

Product description	Output PSTLM	Output SVM	Nominal output power	Maximum output power
OT FIT 25/220...240/250 D NFC FL	≤ 1	≤ 0.4	4...25 W	25 W
OT FIT 35/220...240/400 D NFC FL	≤ 1	≤ 0.4	6...35 W	35 W
OT FIT 75/220...240/500 D NFC FL	≤ 1	≤ 0.4	10...75 W	75 W

¹⁾ at 230 V, 50 Hz

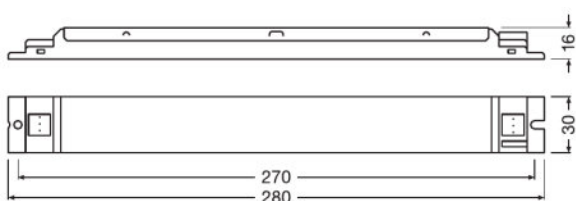
Dimensions & weight

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

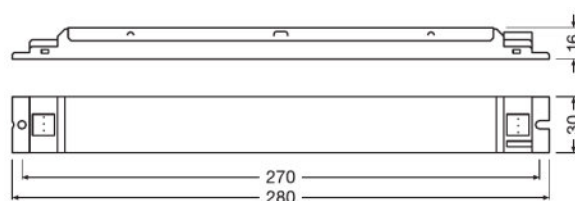
Product family datasheet

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

Product line drawing

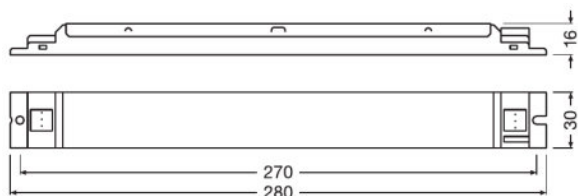


OT FIT 25/220...240/250 D NFC FL



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

Product family datasheet



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

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 / 50000 h
OT FIT 35/220...240/400 D NFC FL	100000 / 50000 h
OT FIT 75/220...240/500 D NFC FL	100000 / 50000 h

Product family datasheet

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	Intended for no-load operation	Max. cable length to lamp/LED module
OT FIT 25/220...240/250 D NFC FL	Automatic reversible	Yes	No	2.0 m
OT FIT 35/220...240/400 D NFC FL	Automatic reversible	Yes	No	2.0 m
OT FIT 75/220...240/500 D NFC FL	Automatic reversible	Yes	No	2.0 m

Product description	Suitable for fixtures with prot. class	Number of channels
OT FIT 25/220...240/250 D NFC FL	I	1
OT FIT 35/220...240/400 D NFC FL	I	1
OT FIT 75/220...240/500 D NFC FL	I	1

Programming

Product description	Programming device	Tuner4TRONIC Field App
OT FIT 25/220...240/250 D NFC FL	FEIG	Yes
OT FIT 35/220...240/400 D NFC FL	FEIG	Yes
OT FIT 75/220...240/500 D NFC FL	FEIG	Yes

Certificates & standards

Product description	Approval marks – approval	Standards	Type of protection
OT FIT 25/220...240/250 D NFC FL	CE / EL / VDE-ENEC / EAC / CCC / RCM / 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 / EL / VDE-ENEC / EAC / CCC / RCM / 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 / EL / VDE-ENEC / EAC / CCC / RCM / 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

Product family datasheet

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

Environmental information

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
OT FIT 25/220...240/250 D NFC FL	23-12-2021	4062172063920	Lead
OT FIT 35/220...240/400 D NFC FL	23-12-2021	4062172063944	Lead
OT FIT 75/220...240/500 D NFC FL	23-12-2021	4062172063968	Lead

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OT FIT 25/220...240/250 D NFC FL	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	0b0e4718-5ae2-49d1-8eae-9ccf1cb08c5f
OT FIT 35/220...240/400 D NFC FL	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	e4a51a19-a85e-41bd-a8c8-395a15bca296
OT FIT 75/220...240/500 D NFC FL	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	584a90da-080a-4c14-a305-3108801ebaa1

Product description	Candidate List Substance 2	CAS No. of substance 2
OT FIT 25/220...240/250 D NFC FL		
OT FIT 35/220...240/400 D NFC FL	SCCP	85535-84-8
OT FIT 75/220...240/500 D NFC FL	SCCP	85535-84-8

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

Product family datasheet

File	
	User instruction OPTOTRONIC LED Power Supply
	Certificates OT FIT OTI DALI CB DE1 62965 270220
	Certificates OT ENEC 40038085 171221
	Certificates OT EMC 40044675 250621
	Declarations of conformity OT FIT D NFC FL CE 3976681 030921

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
4062172063920	OT FIT 25/220...240/250 D NFC FL	Shipping carton box 20	309 mm x 175 mm x 78 mm	4.22 dm ³	4238.00 g
4062172063944	OT FIT 35/220...240/400 D NFC FL	Shipping carton box 20	309 mm x 175 mm x 78 mm	4.22 dm ³	4238.00 g
4062172063968	OT FIT 75/220...240/500 D NFC FL	Shipping carton box 20	309 mm x 175 mm x 78 mm	4.22 dm ³	4238.00 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.