OPTOTRONIC FIT D CS L (Dip Switch) EL

Linear / Area Constant Current – Non dimmable

Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Supply voltage: 220…240 V
- Line voltage: 198…264 V
- DC detection (0 Hz, pulsating DC), on/off switchable
- Wide output current range
- Lifetime: up to 100,000 h (temperature at T_C = 65 °C, max. 10 % failure rate)
- Non-isolated drivers

Product family benefits

- Flexible current setting (DIPswitch – 6 currents)
- Higher quality of light thanks to low output ripple current
- High efficiency
- User flexibility with six different output currents from one driver
- Safety requirement due to overload, overtemperature, short-circuit protection
- Long reliable life at maximum permitted temperatures
- Enable slim fixture design with flat 21 mm height metal housing

Areas of application

- Linear and area lighting
- Office, industrial and shop lighting
- Suitable for luminaires of protection class I
- 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

Technical data

	Electrical data					
Product description	**Nominal input voltage**	**Mains frequency**	**Input voltage AC**	**Current set**	**Power factor λ**	**Efficiency in full-load**
OT FIT 18/220…240/350 D CS L	220…240 V	0/50/60 Hz	198…264 V	DipSwitch	078C097	86 % [1]
OT FIT 40/220…240/350 D CS L	220…240 V	0/50/60 Hz	198…264 V	DipSwitch	082C…099	91 % [1]
OT FIT 60/220…240/350 D CS L	220…240 V	0/50/60 Hz	198…264 V	DipSwitch	0.80C…0.95	92 % [1]
OT FIT 75/220…240/550 D CS L	220…240 V	0/50/60 Hz	198…264 V	DipSwitch	085C095	92 % [1]

Product description	**Device power loss**	**Inrush current**	**Max. ECG no. on circuit breaker 10 A (B)**	**Max. ECG no. on circuit breaker 16 A (B)**	**Surge capability (L/N-Ground)**
OT FIT 18/220…240/350 D CS L	3.08 W [2]	7.4 A [3]	40	64	2 kV [4]
OT FIT 40/220…240/350 D CS L	4.15 W [2]	14.8 A [10]	19	30	2 kV [4]
OT FIT 60/220…240/350 D CS L	5.33 W [2]	24.5 A [11]	13	21	2 kV [4]
OT FIT 75/220…240/550 D CS L	6.5 W [2]	23 A [11]	10	17	2 kV [4]

Product description	**Surge capability (L-N)**	**Nominal output voltage**	**Nominal output current**	**Output PSTLM**	**Output SVM**
OT FIT 18/220…240/350 D CS L	1 kV	32…54 V	100 / 150 / 200 / 250 / 300 / 350 mA [5]	≤1	≤0.4
OT FIT 40/220…240/350 D CS L	1 kV	40…120 V	100 / 150 / 200 / 250 / 300 / 350 mA [5]	≤1	≤0.4
OT FIT 60/220…240/350 D CS L	1 kV	90…175 V	100 / 150 / 200 / 250 / 300 / 350 mA [5]	≤1	≤0.4
OT FIT 75/220…240/550 D CS L	1 kV	90…216 / 90…188 / 90…167 / 90…150 / 90…136 V [12]	300 / 350 / 400 / 450 / 500 / 550 mA [5]	≤1	≤0.4

				Dimensions & weight	
Product description	**Nominal output power**	**Maximum output power**	**Output ripple current (100 Hz)**	**Mounting hole spacing, length**	**Product weight**
OT FIT 18/220…240/350 D CS L	5…18.9 W [6]	18.9 W	< 3 %	200.0 mm	11600 g
OT FIT 40/220…240/350 D CS L	8…42 W [6]	42 W	< 3 %	200.0 mm	11600 g
OT FIT 60/220…240/350 D CS L	18…61.2 W [6]	61.2 W	< 3 %	200.0 mm	154.00 g
OT FIT 75/220…240/550 D CS L	31.5…75 W [6]	75 W	< 3 %	200.0 mm	15000 g

						Temperatures & operating conditions
Product description	**Cable cross-section, input side**	**Wire preparation length, input side**	**Length**	**Width**	**Height**	**Ambient temperature range**
OT FIT 18/220…240/350 D CS L	0.5…1.5 mm²	8.0…9.0 mm	2100 mm	300 mm	210 mm	-25…+50 °C
OT FIT 40/220…240/350 D CS L	0.5…1.5 mm²	8.0…9.0 mm	2100 mm	300 mm	210 mm	-25…+50 °C
OT FIT 60/220…240/350 D CS L	0.5…1.5 mm²	8.0…9.0 mm	210.0 mm	30.0 mm	21.0 mm	-25…+50 °C
OT FIT 75/220…240/550 D CS L	0.5…1.5 mm²	8.0…9.0 mm	2100 mm	300 mm	210 mm	-25…+55 °C

					Lifespan
Product description	**Maximum temperature at tc test point**	**Max.housing temperature in case of fault**	**Temperature range at storage**	**Permitted rel. humidity during operation**	**ECG lifetime**
OT FIT 18/220…240/350 D CS L	75 °C	110 °C	-25…85 °C	5…85 % [7)]	50000 / 100000 h [8)]
OT FIT 40/220…240/350 D CS L	75 °C	110 °C	-25…85 °C	5…85 % [7)]	50000 / 100000 h [8)]
OT FIT 60/220…240/350 D CS L	75 °C	110 °C	-25…85 °C	5…85 % [7)]	50000 / 100000 h [8)]
OT FIT 75/220…240/550 D CS L	75 °C	110 °C	-25…85 °C	5…85 % [7)]	50000 / 100000 h [8)]

	Capabilities			
Product description	**Dimmable**	**Overheating protection**	**Overload protection**	**Short-circuit protection**
OT FIT 18/220…240/350 D CS L	No	Automatic reversible	Automatic reversible	Automatic reversible
OT FIT 40/220…240/350 D CS L	No	Automatic reversible	Automatic reversible	Automatic reversible
OT FIT 60/220…240/350 D CS L	No	Automatic reversible	Automatic reversible	Automatic reversible
OT FIT 75/220…240/550 D CS L	No	Automatic reversible	Automatic reversible	Automatic reversible

Product description	No-load proof	Intended for no-load operation	Max. cable length to lamp/LED module	Suitable for fixtures with prot. class
OT FIT 18/220...240/350 D CS L	Yes	No	2.0 m [9)]	I
OT FIT 40/220...240/350 D CS L	Yes	No	2.0 m [9)]	I
OT FIT 60/220...240/350 D CS L	Yes	No	2.0 m [9)]	I
OT FIT 75/220...240/550 D CS L	Yes	No	2.0 m [9)]	I

		Programming	Certificates & standards	
Product description	Number of channels	Programming device	Approval marks – approval	Standards
OT FIT 18/220...240/350 D CS L	1	DIPswitch	CE / ENEC / CCC / RCM / UKCA / BIS / EAC	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547/Acc. to EN 55015
OT FIT 40/220...240/350 D CS L	1	DIPswitch	CE / ENEC / CCC / RCM / UKCA / BIS / EAC	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547/Acc. to EN 55015
OT FIT 60/220...240/350 D CS L	1	DIPswitch	CE / ENEC / CCC / RCM / UKCA / BIS / EAC	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547/Acc. to EN 55015
OT FIT 75/220...240/550 D CS L	1	DIPswitch	CE / ENEC / CCC / RCM / UKCA / BIS / EAC	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547/Acc. to EN 55015

		Logistical data	Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)
Product description	**Type of protection**	**Commodity code**	**Date of Declaration**
OT FIT 18/220...240/350 D CS L	IP20	85044083900	25-08-2023
OT FIT 40/220...240/350 D CS L	IP20	85044083900	26-09-2023
OT FIT 60/220...240/350 D CS L	IP20	85044083900	16-08-2023
OT FIT 75/220...240/550 D CS L	IP20	85044083900	16-08-2023

Product description	Primary Article Identifier	Candidate List Substance 1	CAS No. of substance 1	Safe Use Instruction
OT FIT 18/220...240/350 D CS L	4062172285254	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
OT FIT 40/220...240/350 D CS L	4062172285278	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
OT FIT 60/220...240/350 D CS L	4062172285292	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
OT FIT 75/220...240/550 D CS L	4062172285315	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.

Product description	Declaration No. in SCIP database
OT FIT 18/220...240/350 D CS L	f881b08b-40f0-4875-929d-51c0aa29dff9
OT FIT 40/220...240/350 D CS L	47470c35-a656-42ce-8ae3-d368b425c9ae
OT FIT 60/220...240/350 D CS L	9ac7e73c-b894-4f66-8671-302077d42e5e
OT FIT 75/220...240/550 D CS L	a9258e78-7098-49f9-8b82-4faea04d10e0

1) at 230 V, 50 Hz

2) Full load, 230 Vac, 50Hz / 60Hz

3) At 258 µs

4) L/N – PE acc to EN 61547 Cluase 5.7

5) Default current 350 mA

6) Partial load

7) Non-condensing

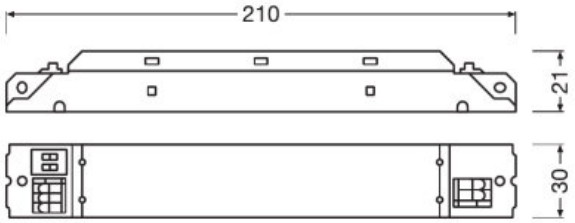
8) At maximum T_c = 75°C / 10% failure rate

9) Output wires must be routed as close as possible to each other

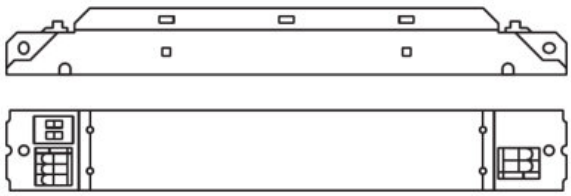
10) At 216 µs

11) At 310 µs

12) At 300/350 mA output current



OT FIT D CS L



OT FIT D CS L

Application advice

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

Additional product information

- Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.
- Indication that the lamp control gear relies upon the luminaire enclosure for protection against accidental contact with live parts.
- The control gear is not intended for use in luminaires for high-risk task area lighting.
- Input overvoltage protection: the driver withstands an input voltage up to 305 Vac for a maximum of two hours, shut down of the output load might occur in case the supply voltage exceeds the declared input voltage range.
- Input surge protection: the unit is protected against surge up to 1kV between L-N (symmetric surge) and 2 kV L/N-PE (asymmetric surge). During an asymmetric surge, the voltage between the LED outputs and PE is equal or lower than the applied surge voltage.
- Output short circuit / undervoltage protection: shut down of the load happens if Vout is out of the operating range.
- Output over voltage protection: shut down of the load might happen if Vout exceeds the outpurt maximum voltage (depending on current).Step 1: output current reduction to decrease Vout;Step 2: shut down of the load at longer or extreme overvoltage.
- No load protection: the driver automatically adjusts the output voltage to the maximum output voltage which is auto defined by output current setting if no load is connected. Auto-reversible with the correct load connected;
- Over temperature protection: the unit is protected against temporary overheating by automatic reduction of the output current when tc > 75°C.
- Switch over time: lower than 0.5 s, from AC to DC mains and viceversa.
- Output power hold time: > 4 ms, in case of mains dips.
- Emergency lighting: this LED power supply is suitable for emergency lighting fixtures acc. to EN 60598-2-22; according to EN 61347-2-13 Annex J.

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

	File
	User instruction OPTOTRONIC LED Power Supply
	Certificates OT FIT 18 D CS L CCC 2022171002004624 102122
	Certificates OT FIT D CS L ENEC 35-124598 102122
	Certificates OT FIT 40 D CS L CCC 2022171002004623 102122
	Certificates OT FIT 60 75 D CS L CCC 2022171002004620 102122

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
4062172285254	OT FIT 18/220...240/350 D CS L	Shipping carton box 20	237 mm x 162 mm x 130 mm	4.99 dm^3	2629.00 g
4062172285278	OT FIT 40/220...240/350 D CS L	Shipping carton box 20	237 mm x 162 mm x 130 mm	4.99 dm^3	2629.00 g
4062172285292	OT FIT 60/220...240/350 D CS L	Shipping carton box 20	237 mm x 162 mm x 130 mm	4.99 dm^3	3389.00 g
4062172285315	OT FIT 75/220...240/550 D CS L	Shipping carton box 20	237 mm x 162 mm x 130 mm	4.99 dm^3	3309.00 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.