POWERTRONIC PT-FIT I

ECG for HID lamps, with cable clamp



Areas of application

- Shop lighting
- Health and fitness areas (in luminaires with protection class IP66 or higher)
- Effect and accent lighting

Product family benefits

- ECG with ergonomic strain relief for correct installation in suspended ceilings
- Optimized cost/benefit factor
- Automatic safety shutdown of lamps in the event of a defect or at end of life (EoL)

Product family features

- Energy Efficiency Index EEI: A2
- Supply voltage: 220…240 V
- Line frequency: 50…60 Hz
- RI suppression: to EN 55015/CISPR 15
- Safety: to EN 61347-2-12
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547

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Technical data

Electrical data

Product description	Lamp wattage	Maximum output power	Line current	Ignition voltage	Operating frequency
PT-FIT 35/220…240 I	39 W	39 W	0.19 A [1]	4.5 kVp	0.200…0.240 kHz
PT-FIT 70/220…240 I	73 W	73 W	0.36 A [1]	4.5 kVp	0.200…0.240 kHz

Product description	System wattage	Efficiency in full-load	Input voltage AC	Nominal voltage	Mains frequency
PT-FIT 35/220…240 I	43.00 W	91 %	198…264 V	220…240 V	50…60 Hz
PT-FIT 70/220…240 I	80.00 W	92 %	198…264 V	220…240 V	50…60 Hz

Product description	Power factor λ	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)	U-OUT (working voltage)	Max. working voltage between LH and LL
PT-FIT 35/220…240 I	0.95 [2]	30 A [3]	15 [4]	26 [4]	250 V	250 V
PT-FIT 70/220…240 I	0.95 [2]	45 A [5]	7 [4]	13 [4]	250 V	250 V

Product description	Max. working voltage betw. LL/LH & earth	Max. capacitance of wire ECG/lamp
PT-FIT 35/220…240 I	250 V	120 pF
PT-FIT 70/220…240 I	250 V	120 pF

[1] At 230 V_{AC}

[2] Minimum

[3] t_{width} = 150 µs (measured at 50 % I_{peak})

[4] Type B

[5] t_{width} = 250 µs (measured at 50 % I_{peak})

Dimensions & weight

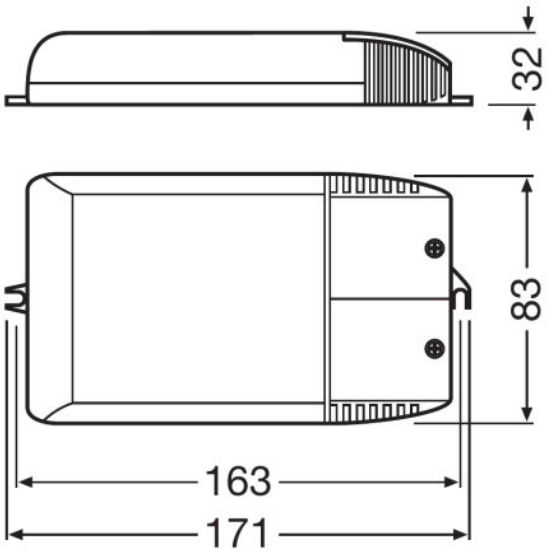
Product description	Length	Width	Height	Mounting hole spacing, length	Cable cross-section, input side	Cable cross-section, output side
PT-FIT 35/220…240 I	172.0 mm	83.0 mm	33.0 mm	163.0 mm	0.75…1.5 / 0.75…2.5 mm² [1]	0.75…1.5 / 0.75…2.5 mm² [1]
PT-FIT 70/220…240 I	172.0 mm	83.0 mm	33.0 mm	163.0 mm	0.75…1.5 / 0.75…2.5 mm² [1]	0.75…1.5 / 0.75…2.5 mm² [1]

Product description	Wire preparation length, input side	Wire preparation length, output side	Product weight
PT-FIT 35/220…240 I	5.5…6.5 mm	5.5…6.5 mm	285.00 g
PT-FIT 70/220…240 I	5.5…6.5 mm	5.5…6.5 mm	290.00 g

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[1] With ferrule / Without ferrule

Product line drawing



PT-FIT 35/220...240 I, PT-FIT 70/220...240 I

Colors & materials

Product description	Casing material
PT-FIT 35/220...240 I	Plastic
PT-FIT 70/220...240 I	Plastic

Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point
PT-FIT 35/220...240 I	-15...+60 °C	75 °C
PT-FIT 70/220...240 I	-15...+45 °C	75 °C

Lifespan

Product description	ECG lifetime
PT-FIT 35/220...240 I	30000 h [1]
PT-FIT 70/220...240 I	30000 h [1]

[1] At maximum T_c / 10% failure rate

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Additional product data

Product description	Design / version
PT-FIT 35/220...240 I	With cable clamp
PT-FIT 70/220...240 I	With cable clamp

Capabilities

Product description	Max. cable length to lamp/LED module	Overheating protection	ECG reset time	Cable/wire types, input side	Cable/wire types, output side
PT-FIT 35/220...240 I	1.5 m	Power reduction and switch off at T > 75 °C at the tc point	> 0.5 s	NYM-J 3x1.5 / NYM-J 3x2.5 / H05VV-F 3x1.5 / NHXMH-J 3x1.5 mm²	SIHF-J 3x1.5 / SIHF-J 3x2.5 / SIHSI 3x1.0 mm²
PT-FIT 70/220...240 I	1.5 m	Power reduction and switch off at T > 75 °C at the tc point	> 0.5 s	NYM-J 3x1.5 / NYM-J 3x2.5 / H05VV-F 3x1.5 / NHXMH-J 3x1.5 mm²	SIHF-J 3x1.5 / SIHF-J 3x2.5 / SIHSI 3x1.0 mm²

Product description	Dimmable	Restriction on ignition time	Suitable for fixtures with prot. class
PT-FIT 35/220...240 I	No	20 min	I
PT-FIT 70/220...240 I	No	20 min	I

Certificates & standards

Product description	Approval marks – approval	Type of protection	EEI – Energy Label	Standards
PT-FIT 35/220...240 I	VDE / VDE-EMC / EAC / C-Tick	IP20	A2	Acc. to EN 61347-2-12/Acc. to EN 55015/Acc. to EN 61000-3-2/Acc. to EN 61547/Acc. to EN 62493
PT-FIT 70/220...240 I	VDE / VDE-EMC / EAC / C-Tick	IP20	A2	Acc. to EN 61347-2-12/Acc. to EN 55015/Acc. to EN 61000-3-2/Acc. to EN 61547/Acc. to EN 62493

Logistical data

Product description	Commodity code
PT-FIT 35/220...240 I	85041080900
PT-FIT 70/220...240 I	85041080900

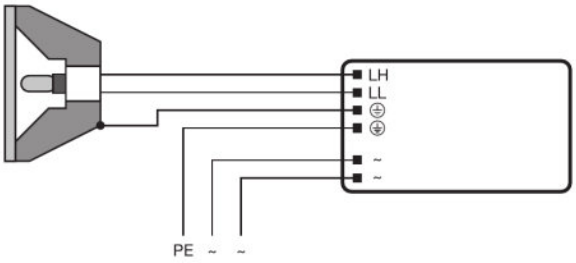
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Environmental information
Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
PT-FIT 35/220...240 I	26-05-2023	4008321377661	Lead
PT-FIT 70/220...240 I	26-05-2023	4008321377685	Lead

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
PT-FIT 35/220...240 I	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	050dde0b-9d18-4c67-a350-ea1be0e75fad
PT-FIT 70/220...240 I	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	620a8fbb-fa0f-4f92-af4e-bc7e7d31b826

Wiring Diagram



PT-FIT 35/220...240 I, PT-FIT 70/220...240 I

Safety advice

Ballast losses and lamp heat radiation can lead to heat accumulation in a completely closed case. Therefore it is necessary to ensure that the temperature at the measuring point t of the ECG does not exceed the maximum value.

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Attention!

For safety reasons disconnect the device before replacing the lamp!

Application advice

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

Additional product information

- In order to achieve good radio interference suppression:1. Keep the cable between ECG and lamp as short as possible.2. The single lamp wires must be routed as close as possible to each other.

Sales and Technical Support

Sales and Technical Support www.osram.com

Country specific information

Product description	Product code	METEL code	SEG-No.	STK-Number	UK Org
PT-FIT 35/220...240 I	4008321377661	OSRPTFIT35I	-	-	-
PT-FIT 35/220...240 I	4008321377661	OSRPTFIT35I	-	-	-

Download Data

	File
	User instruction POWERTRONIC PTi I PT FIT I
	Product Datasheet 321397_ATI PT-FIT 35220-240 I (G+GB)
	Tender documents 339884_Tender Document for POWERTRONIC EVG.eng
	Certificates PT FIT S I VDE 40020649 060923
	Certificates 554891_EAC PT family
	Declarations of conformity Powertronic UK DoC 4278196 150222
	Declarations of conformity PT_FIT PTi PTo CE 3363432 020823

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	Declarations of conformity Pti Pto PT-FIT EMC 280722
	Operating instructions 590731_EAC - PTI I PT-FIT I
	CAD data 3-dim 321673_CAD PTI-FIT 3570 I
	CAD data 3-dim 321674_CAD PTI-FIT 3570 I
	CAD data 3-dim 321675_CAD PTI-FIT 3570 I
	Product Datasheet 321398_ATI PT-FIT 70220-240 I (G+GB)

Ecodesign regulation information:

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
4008321377661	PT-FIT 35/220...240 I	Shipping carton box 20	430 mm x 368 mm x 91 mm	14.40 dm^3	5897.00 g
4008321377685	PT-FIT 70/220...240 I	Shipping carton box 20	430 mm x 368 mm x 91 mm	14.40 dm^3	5897.00 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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