

OPTOTRONIC®

OTe 35/220-240/700 SD

1Channel 700mA Constant Current LED Power
Supply with StepDim functionality

Technical
Information
Edition: Feb 2012

Technical data

Reference:	OTe 35/220-240/700 SD
For LED modules:	700 mA LED
Nominal Voltage:	220 – 240 V _{AC}
Line Current, nominal:	180 mA@230V
Mains Frequency:	50/60 Hz
Protection Class:	I
Output Current:	700 mA _{DC}
(Remark)	Tolerance: +/- 7%
Output voltage:	16 - 50 V _{DC}
(Remark)	Maximum 54 V _{DC}
Output Power:	35 W
(Remark)	Partial Load 12W .. 35W
Rated Power factor:	> 0,95 (full load) @ 230V > 0,90 (half load) @ 230V
Power Loss:	< 6,2 W max.
ECG efficiency:	≥ 85%
(Remark)	full load at 230V
Power Loss in no load condition	< 2,5 W
Input Voltage:	195 – 264 VAC
(Remark)	Permitted voltage range
DC Voltage:	No
Internal Control:	StepDIM Preset fixed StepDim Levels 30% and 100%
No-load proof:	Yes
Hot plug functionality:	No
Short circuit protection:	Automatic, reversible
Overload protection:	Automatic, reversible
Overtemperature protection:	Automatic, reversible
Ambient temperature range, t _a :	-25 °C to +50 °C
Max. case temperature at t _c point:	70 °C
ECG Lifetime:	50.000h
(Remark)	at t _{case} = 60 °C at t _c point and 10% failure rate
Maximum casing temperature in case of fault	100 °C

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Inrush current:	< 16 A
(Remark)	$t_{width} = 50 \mu s$ (measured at 50% I_{peak})
Max. no. of ECG @ circuit breakers 10 A (B type):	15
Max. no. of ECG @ circuit breakers 16 A (B type):	26
Max. no. of ECG @ circuit breakers 16 A (B type): in combination with EBN-OS	26
Terminal:	Mains: (grey) LEDModule ([+][-] grey) StepDim Port: (AGND; PIR; +5V; grey)
Cable cross section input side	0,5 mm ² – 1,5 mm ²
(Remark)	Solid and flexible
Wire preparation length Input side:	8,5 – 9,5 mm
Cable cross section output side:	0,5 mm ² – 1,5 mm ²
(Remark)	Solid and flexible
Wire preparation length output side:	8,5 – 9,5 mm
Max. cable length - system:	2 m
Geometry (l x b x h):	182 x 41 x 28 mm
Mounting hole spacing/length:	173 mm
Weight:	~ 165 g
IP Code:	IP20
(Remark)	
Safety:	IEC 61347-1, IEC 61347-2-13
Performance:	IEC 62384
Radio interference:	CISPR 15
Harmonic content:	IEC 61000-3-2
Voltage fluctuations:	IEC 61000-3-3
Immunity:	IEC 61547
Surge capability:	L-N: 1kV, L/N – PE: 1kV
Galvanic isolation primary/secondary :	3,75 kVrms
(Remark)	SELV-equivalent
Approvals:	CE

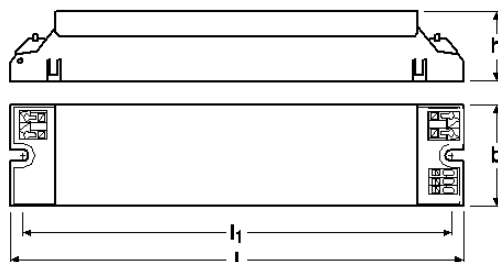
Geometry

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$l = 182 \text{ mm}$, $l_1 = 173 \text{ mm}$, $b = 41 \text{ mm}$, $h = 28 \text{ mm}$

Ordering information

	EAN 10 (1 pc)	EAN 40 (20 pcs)
OTe 35/220-240/700 SD	4008321989543	4008321989550

Wiring diagram

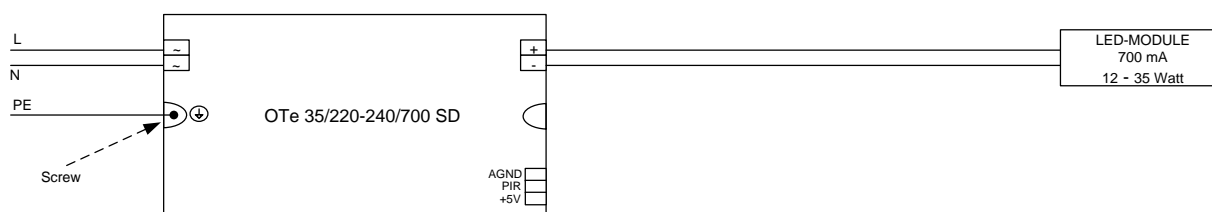


Figure 1: Standard configuration:

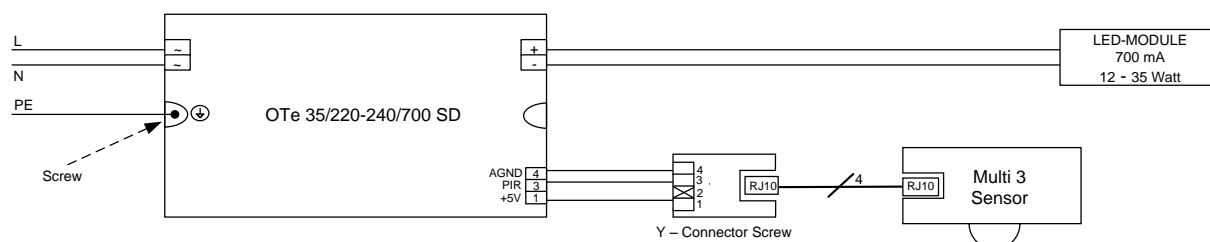


Figure 2: Connection of a MULTI 3 sensor via Y-Connector

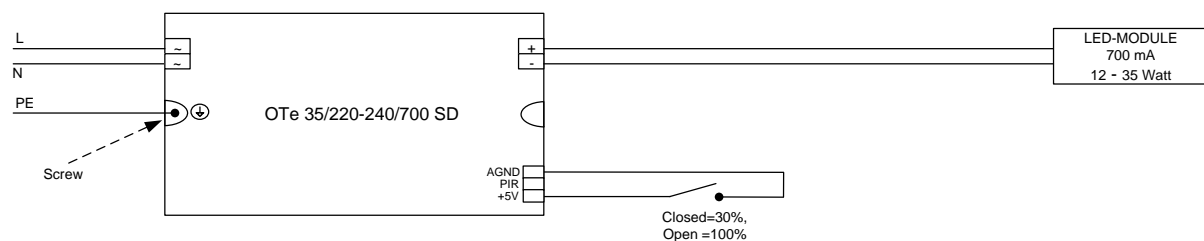


Figure 3: Connection of a switch

