

OPTOTRONIC®

OTe 13/220-240/350 SD

1Channel 350mA Constant Current LED Power
Supply with StepDim functionality

Technical Information

Edition: September 2011
subject to change

Technical data

Reference:	OTe 13/220-240/350 SD
For LED modules:	350mA LED
Nominal Voltage:	220 – 240 V _{AC}
Line current, nominal:	0,08 A @ 230V
Mains frequency:	50/60 Hz
Protection Class:	I
Output current:	350 mA _{DC}
<i>(Remark)</i>	<i>Toleranze: +/- 5%</i>
Output voltage:	≤ 34 V _{DC}
<i>(Remark)</i>	<i>maximum 38 V_{DC}</i>
Output Power:	< 12 W
<i>(Remark)</i>	<i>Partial Load 1W .. 12W</i>
Rated Power factor:	≥ 0,90 (full load) @ 230V
Power loss:	< 2,4 Watt max. (full load)
ECG efficiency:	82 %
<i>(Remark)</i>	<i>Full load at 230V</i>
Power Loss in no load condition:	< 1 W
Input Voltage:	198 – 264 VAC
<i>(Remark)</i>	<i>Permitted voltage range</i>
DC Voltage:	No
Inrush current:	≤ 16 A
<i>(Remark)</i>	<i>t_{width}@ 20μs</i>
Ambient temperature range, t _a :	-20 °C to +55 °C
Max. case temperature at t _c point:	70 °C
ECG Lifetime:	50.000h
<i>(Remark)</i>	<i>at Ta=45 °C and 10% failure rate</i>
Maximum casing temperature in case of fault	80 °C

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Dimmable:	StepDim by external switch or digital PIR sensor Preset fixed StepDim Levels 50% and 100%
No-load proof:	Yes
Short circuit protection:	Automatic, reversible
Overload protection:	Automatic, reversible
Overtemperature protection:	Automatic, reversible
Hot plug functionality:	No
Cable cross section input side / output side: <i>(Remark)</i>	0,5 mm ² – 1,0 mm ² / 0,5 mm ² – 1,0 mm ² (20 AWG – 16 AWG) / (20 AWG – 16 AWG) <i>Solid and flexible</i>
Wire preparation length Input side / output side:	8,5 – 9,5 mm / 8 – 9 mm
Terminal:	Push terminals
Max. cable length - system:	5 m
Geometry (l x b x h):	182 x 41 x 28 mm ³
Mounting hole spacing/length:	173 mm
Weight:	~ 165 g
IP Code:	IP20
Suitable for fixtures with protection class:	class I
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 – Ground: 2kV;
Galvanic isolation primary/secondary : <i>(Remark)</i>	3,75 kVrms <i>SELV-equivalent</i>
Approvals:	CE

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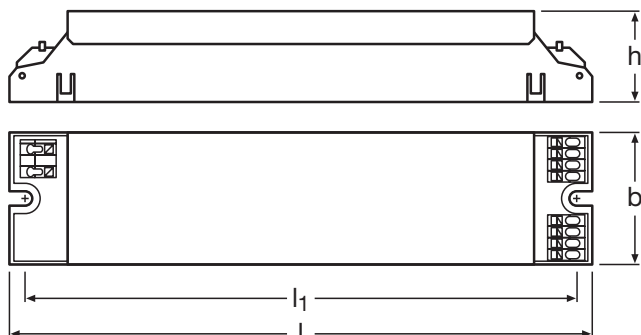
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Geometry



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

Ordering information

	EAN 10	EAN 40
OTe 13/220-240/350 SD	4008321519795	4008321519801

Wiring diagram

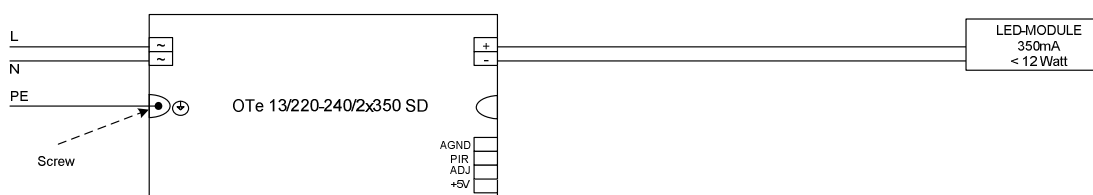


Figure 1: Standard configuration

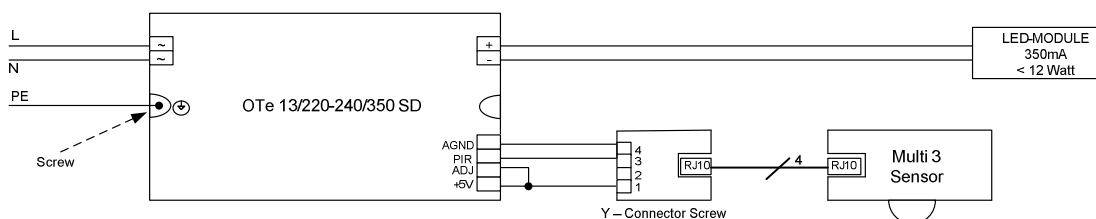


Figure 2: Connection of a MULTI3 sensor via Y-Connector

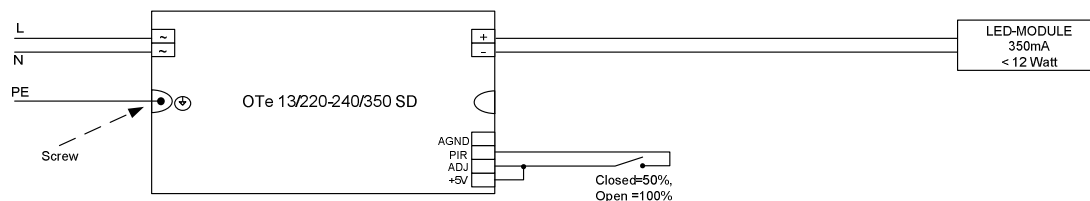


Figure 3: Connection of a switch

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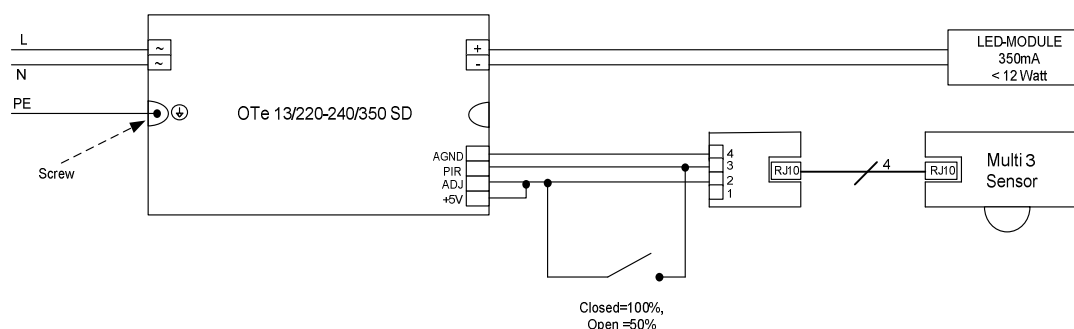
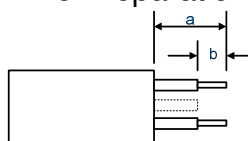


Figure 4: Parallel connection of a switch and MULTI3 sensor via Y-Connector

Installation notes

1. Live parts of the ECG are separated by double/reinforced insulation against the outer surfaces of the ECG except in the area around the terminals. The compliance with relevant creepage distances and clearances according to IEC 60598 in this area must be guaranteed by the fixture.
The luminaire manufacturer is responsible for providing the required clearances and creepage distances and also for the protection against electrical shock, especially for the line and load wires.
1. Ground connection of the OTe 13/220-240/350 SD is mandatory for safety and EMC reason. The ground connection has to be done by connecting the input cable with the housing case, using proper countersunk screws.

2. Wire Preparation:



a: n/a, b: 8 - 9 mm

3. Ballast losses and LED Module heat radiation can lead to heat accumulation in a complete closed case. Therefore it is necessary to ensure, that the temperature at the measuring point t_c does not exceed the maximum value.

Instruction sheet

Please consult the instruction sheet for further important information on e.g. wire stripping and wiring limitations in system installations. The instruction sheet is enclosed with the device or available upon request.