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:	1		
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% Ipeak)		
Max. no. of ECG @ circuit breakers	15		
10 A (B type):			
Max. no. of ECG @ circuit breakers	26		
16 A (B type):			
Max. no. of ECG @ circuit breakers			
16 A (B type):	26		
in combination with EBN-OS			
	Mains: (grey)		
Terminal:	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 (I 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:	C€		

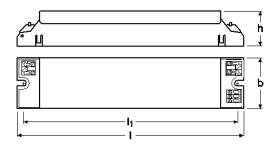
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 $I = 182 \text{ mm}, I_1 = 173 \text{ mm}, b = 41 \text{ mm}, h = 28 \text{ mm}$

Ordering information

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

Wiring diagram

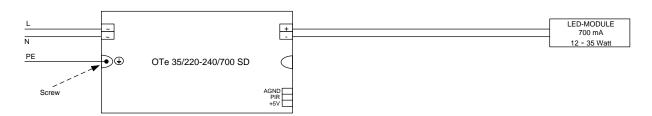


Figure 1: Standard configuration:

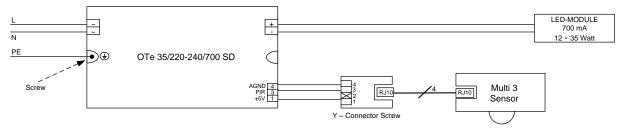


Figure 2: Connection of a MULTI 3 sensor via Y-Connector

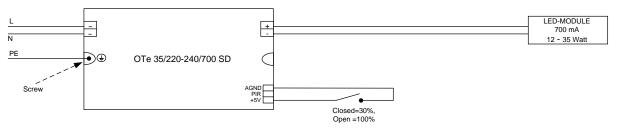


Figure 3: Connection of a switch

OPTOTRONIC®OTe 35/220-240/700 SD

Technical Information Edition: Feb 2012

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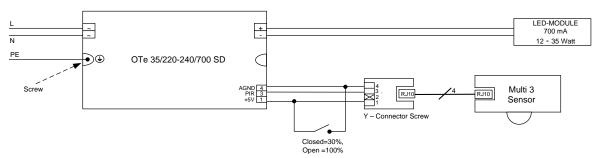
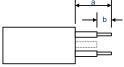


Figure 4: Parallel connection of a switch and MULTI3 sensor via Y-Connector

Installation notes

- 1. 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 according EN 60598.
- 2. 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.
- 3. Ground connection of the OTe 35/220-240/700 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.
- 4. Wire Preparation:



a: n/a, b: 8,5 - 9,5 mm

 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.