

Surge Protection Device SPD 10/320 D G3

Surge Protection Device (SPD) is to offer comprehensive protection solution against high surges for Outdoor lighting systems.



Benefits

Maximize the lifetime of outdoor lighting system
Lower maintenance costs
Suitable for luminaries of protection class II
Long lifetime & high working temperature
High surge protection of up to 10 kV (T3) / 10 kA (T2)
for all lighting applications
Compact and thin
Failure indication LED
Fully comply with IEC 61643-11

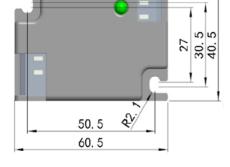
Applications

Street, Urban and Industrial lighting
Suitable for outdoor applications in fixtures with IP > 54

Approval marks



Housing material: plastic material, dark grey



Product Features

- Mains voltage to 320Vac

In preparation, if not already printed on product label

- Suitable for luminaries of protection class II
- Push-in terminal
- Fully LED Driver protection by Up <1.5kV
- High surge protection of up to 10 kV / 5 kA; comply with IEC 61643-11 T3
- Maximum surge protection of up to 10 kA; comply with IEC 61643-11 T2
- TÜV approved acc. to IEC 61643-11 T2 & T3

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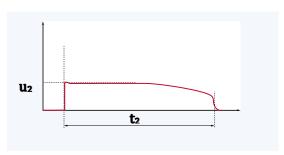


Electrical Characterization

	Item	Value	Unit	Remarks, Conditions
	Max. continuous operating voltage (L-N)	320	Vac	The L N input line must be connected correctly and cannot be reversed.
	Nominal frequency	50 / 60	Hz	
	Classification	Class II + III (T2 + T3)		Acc. IEC61643-11
	Power grids	TN		Including all TN varieties TN-C, TN-C-S, TN-S
	Open-circuit voltage (Uoc)	10	kV	
	Nominal current	5	А	Rated load current at 50/60 Hz
	Power losses	<0.5	W	max. at Uc = 320VAC, loading current = 5A
	Protection class	II		Insulation Class acc. IEC60598
	Temporary overvoltage	441.7 336.6	V	LV system fault: 255 V x 1.73 at tt = 120 m, TN LV system fault: 255 V x 1.32 at tt = 5 s, TN
	Max discharge current (Imax)	10	kA	L-N
	Protection mode	Different mode		Please refer to Protection levels.
INPUT	Nominal discharge current (In)	5	kA	L-N; @ UOC=10KV, internal resistance=2Ω
Z	Max. voltage protection level (Up)	1.5	kV	L-N; @ UOC=10KV, internal resistance=2Ω
	Backup fuse	16	Α	Max., gG fuse
	Max earth leakage current	NA	μΑ	Max. rms, to GND
	Surge withstand capability	1 20 50	strike	Max. at 10kA (L-N) Min. at 5kA (L-N) Min. at 3kA (L-N)
	Ambient temperature range ta	-40+80	°C	
-	Max. case temperature at tc point	85	°C	
Z	Storage temperature range	-40+85	°C	
ENVIRONMENT	Relative humidity	5 95	%	Not condensing
	IP rating	IP 20		Built-in only
	End of life indication (by LED light)	Yes		Optical, light ON: SPD is functional. Light OFF: SPD has reached end-of-life.
	Expected lifetime	100'000	h	tc = 85°C with max. 10% failure rate
	Dimensions	60.5 x 40.5 x 17	mm	
	Weight	38	g	

Protection levels of **Up**

IC 8/20 μs	Differential mode U2 (L-N)
5kA	≤1500 V



Differential mode L-N

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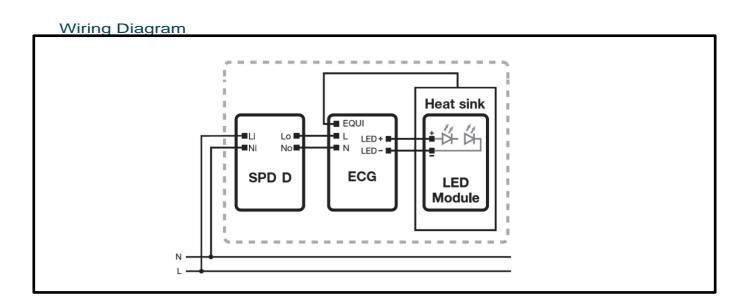
Product Datasheet



Additional Information

Approvals*	CE, CB, TUV
Standards	Acc. to IEC 61643-11

^{*}In preparation, if not already printed on product label



	Item	Value	Unit	Remarks
INPUT	Cable cross section	0.752.5	$\rm mm^2$	Solid and stranded
	Wire preparation length	79	mm	
	Type of terminal	Push in, Single wire only		
⊨	Cable cross section	0.752.5	${\rm mm^2}$	Solid and stranded
OUTPUT	Wire preparation length	79	mm	
	Type of terminal	Push in, Single wire only		
Cable length from SPD to LED Driver <3		<3	m	

Standards

ordering information

IEC 61643-11

Product name	EAN10	EAN40	Pieces / box
SPD10/320 D G3	6977078992824	6977078992831	120

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Product Datasheet



Disclaimer

Subject to change without notice. Errors and omission accepted. Always make sure to use the most recent release. The latest release of the datasheet is available under the following link www.inventronicsglobal.com

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