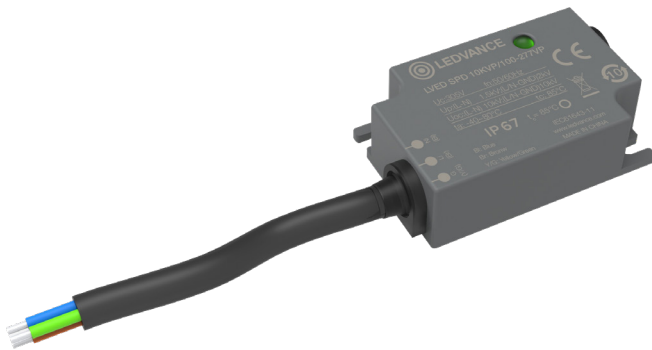


PRODUCT DATASHEET

LVED SPD 10KVP/100-277VP

LED SURGE PROTECTOR DEVICE



AREAS OF APPLICATION

- Surge protector device
- Uoc: 10KV
- Suitable for Class I

PRODUCT FEATURES

- Suitable for luminaires of protection class I
- High surge protection of up to 10 kV / 10 kA
- Maximize the lifetime of outdoor lighting applications
- Fully comply with IEC 61643-11
- Push-in terminal
- Operating frequency: 50/60 Hz
- Compact design
- Type of protection IP67

TECHNICAL DATA

Electrical Specifications

Specifications	Parameter	Value	Unit	Condition
Classification		Class III (T3)		Acc. IEC61643-11
(L-N) Max. continuous operating voltage	Uc (L-N)	305	VAC	50 ... 60 Hz
(L-GND) Max. continuous operating voltage	Uc (L-GND)	305	VAC	50 ... 60 Hz
(N-GND) Max. continuous operating voltage	Uc (N-GND)	305	VAC	50 ... 60 Hz
Temporary overvoltage TOV	UT	402.6	V	LV system fault: 305 V x 1.32 at tt =5S, TN
Temporary overvoltage TOV	UT	528	V	LV system fault: 305 V x $\sqrt{3}$ at tt = 120m, TN
Power grids		TN		Incl. all TN varieties TN-C, TN-C-S, TN-S
(L-N) Nominal discharge current	In (L-N)	5	kA	@ Uoc=10KV, internal resistance=2Ω
(L-GND) Nominal discharge current	In (L-GND)	5	kA	@ Uoc=10KV, internal resistance=2Ω
(N-GND) Nominal discharge current	In (N-GND)	5	kA	@ Uoc=10KV, internal resistance=2Ω
(L-N) Max. voltage protection level at In	Up (L-N)	1,5	kV	@ Uoc=10KV, internal resistance=2Ω
(L-GND) Max. voltage protection level at In	Up (L-GND)	2	kV	@ Uoc=10KV, internal resistance=2Ω
(N-GND) Max. voltage protection level at In	Up (N-GND)	2	kV	@ Uoc=10KV, internal resistance=2Ω
Open-circuit voltage	Uoc	10	kV	
Backup fuse		16	A	max., gG fuse
End of life indication		YES		Optical, light ON: SPD is functional. Light OFF: SPD has reached end-of-life
Max earth leakage current at Uc		50		Max. rms, to GND
IP protection level		IP67		

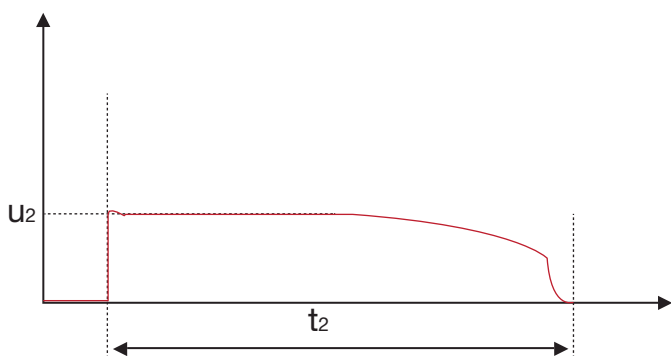
Other Specifications

Specifications	Parameter	Value	Unit	Condition
Surge withstand capability		1	strike	max. at 10KA
		20	strikes	min. at 5kA
		50	strikes	min. at 3kA
Nominal current		N/A	A	(50-60Hz) Rated load current at 50 ... 60 Hz
Power consumption		0.5	W	max. at Uc = 305VAC; Load current=5A
Suitable for luminaires		Class 1		IEC60598 Insulation Class acc. IEC60598

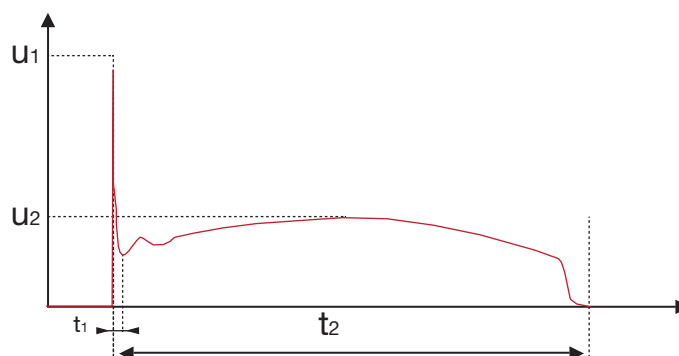
TECHNICAL DATA

Protection Levels Up

Model	IC 8/20	U2 Differential	(L-G) U1/U2 Common mode U1/U2	(N-G) U1/U2 Common mode U1/U2
LVED SPD 10KVP/100-277VP	5kA	≤1500 V	≤2000 V / 1000 V	≤2000 V / 1000 V



L-N Differential mode L-N

(L/N - ground,)
Common mode (L/N - ground, L+N - ground)

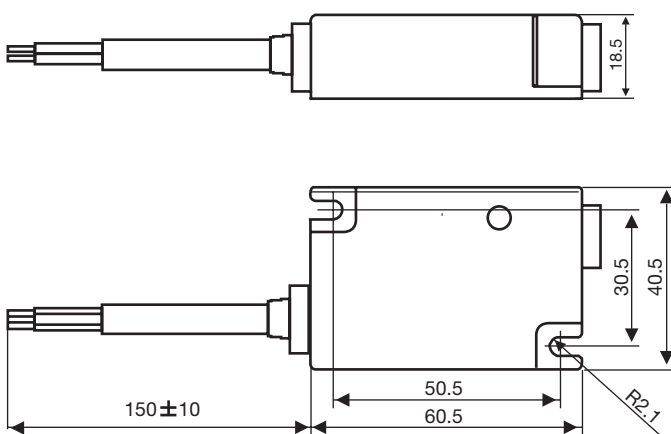
Environmental Conditions

Specifications Item	Value	Unit	Condition
Surge withstand capability	-40...80	°C	
Tcase-max.	85	°C	Measured at Tc-point
Storage temperature	-40...85	°C	
Nominal current	5...95	%	Non-condensing
Suitable for outdoor luminaires	Yes		Built-in only

Lifetime

Specifications Item	Value	Unit	Condition
Lifetime	100,000	hours	Measured @ Tcase-max with min 90% survival

Product Dimension

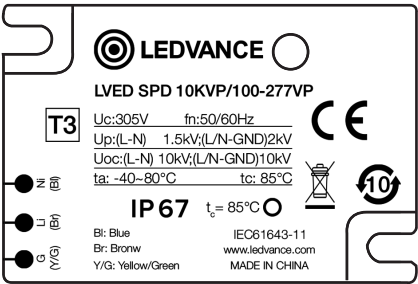


Mounting length	60.5mm
Overall length	60.5mm
Case Width	40.5mm
Case Height	18.5mm
Fixing hole diameter	M4 (50.5*30.5)mm
Max. screw torque	0.45Nm

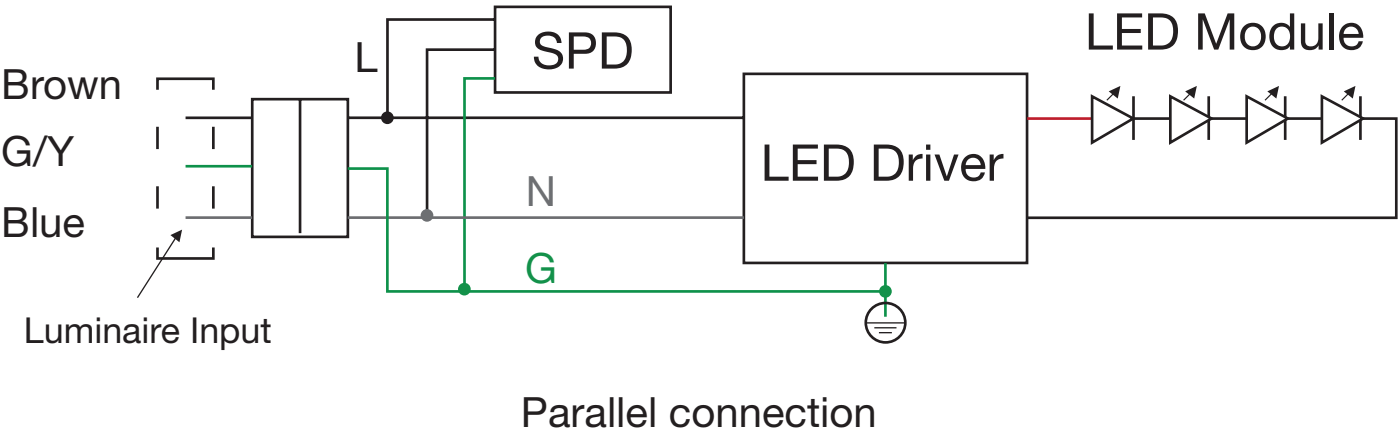
TECHNICAL DATA

Wiring

Specifications Item	Value	Unit	Condition
Connector type	Spring Type Terminal		Single wire only
Wire diameter	3*1mm2	mm2	STR (user side) SOL (user side) IP67
Wire strip length	9~10	mm	



Wiring Diagram Insulation Class I Application



EAN CODES

Material	Short Text	EAN-010
AC403480055	LVED SPD 10KVP/100-277VP VS100 TR LEDV	4058075738836

Package Features

Pieces per Carton	Dimensions of Carton (cm)		
	L	W	H
120 pcs	40	31	10.5