PHILIPS

Outdoor SPD

Xtreme Surge Protector

Protect your luminaires against extreme spikes and transients

Maximum protection for Outdoor LED investments

Outdoor SPD

Xtreme Surge Protector

Protect outdoor luminaires



Philips Surge Protection Device is increasing the reliability and lifetime of your luminaires significantly





Rapidly increasing acceptance of LED-based light sources for outdoor applications brings with it new challenges on system durability. In order to ensure the lifetime of the solution, it is vital to protect it against surges on the mains line. Applications on high poles or open field such as road and area lighting. The new generation Surge Protection Device from Philips are offering a reliable solution for protecting all outdoor systems from excessive surge voltages.

Maximum reliability management

The Philips Surge Protection Device (SPD) is the ideal solution to the maximize protect LED systems in Outdoor lighting. The SPD clamps the voltage at the terminals of the luminaire, protecting the complete system against multiple nominal surges of up to 10 kV / 5 kA. For maximum-level of protection, the SPD can withstand a single hit of 10 kV / 10 kA. The device even eliminates the need for all luminaire internal components – wires, connectors, wire nuts, etc. – to be designed to withstand 10 kV. The product can be used in any new or existing lighting solution, regardless of technology.

The Xtreme standard

The Surge Protection Device is specifically designed for use in outdoor luminaires. The product delivers a long-lasting solution with robust protection against a wide range of temperatures, moisture and vibrations. When used in combination with Xitanium LED drivers, the system benefits from Xtreme protection against lighting strikes.

Benefits

- Maximize the lifetime value of outdoor lighting systems
- No down-time due to calamities (storms, lightning strikes, etc.)
- Lower maintenance costs
- · Easy to apply in new or existing installations
- · Peace of mind on product performance

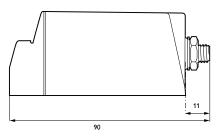
Applications

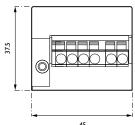
- Highways
- · Rural roads
- Parking lots
- Area lighting

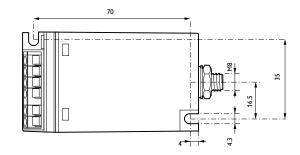
Product specifications

Туре	Nominal input	Protection level Up	Protection level Up	Open circuit voltage	Nominal surge	Min. number of
	voltage	(L-N)	(LN-GND)	U _{oc}	current I _n	surges, nominal
	(VAC)	(kV)	(kV)	(kV)	(kA)	current
Xtreme Surge Protector I	230	≤ 1.5 - 1.5	≤2-4	10	5	100 strikes at 3 kA 50 strikes at 5 kA 1 strike at 10 kA

Туре	Maximum surge	Number of surges,	Insulation classification	Lifetime @ Tc life,	Suitable for
	current I _{MAX} (kA)	maximum current	Classification	90% survivals (hours)	Outdoor use?
Xtreme Surge Protector I	10	1 strike	Class I only	100,000	Yes, built-in use only







All dimensions are mentioned in mm

General product characteristics

T ambient (°C): -40 to +70 °C Tcase life (°C): +80 °C

Compliances and approvals

Designation Type 3 acc. EN61643-11 Classificaton Class III acc. IEC61643-11

Approvals: Kema Keur, CE

Product dimensions

Specification item	Value	Unit
Mounting length	70	mm
Overall length	90	mm
Case Width	45	mm
Case Height	37.5	mm
Fixing hole diameter	M4	
Fixing screw type	M8	
Max. screw torque	0.8	Nm
Weight	66	gr

Product specifications

Туре	12NC	EOC	Minimum order quantity
Xtreme Surge Protector I	9290 008 86906	8718291 750314 00	20



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