Installation Guide – AC Surge Protection

1104-29-001-M Rev F

SL Plug-in Series
SLN 120
Part# 1104-29-001

The SLN 120 AC surge protector is a solid-state SASD (Silicon Avalanche Suppressor Diode) device designed to protect electronic equipment and systems from transient over voltages on 120 Vac single phase services. The SLN 120 offers continuous bi-polar, bi-directional protection, with the ability to automatically reset after each suppression function with no degradation of protection capabilities.

If suppression is damaged, the LED changes color from green to red and an internal fuse disconnects power to the load.

Main Technical Data

Electrical Performance		
Tested To	UL 1449 3rd Edition, Direct Plug-in, Type 3 SPD (VZCA, VZCA7) File E321582	
Location Category	Suitable for Location A per ANSI/IEEE C62.41-2002 / C62.45-2002	
Technology	Silicon Avalanche Suppression Diode	
Protection Mode	L-N	
Nominal Operating Voltage U_n	120 Vac 50/60 Hz	
Maximum Continuous Operating Voltage U_c	150 Vac	
Nominal Discharge Surge Current I_n (8x20µs) L-N	3kA	
Maximum Surge Rating	5kA	
Voltage Protection Level U_p (6kV @ 3kA)	400V	
Rated Load Current	15A	
Status Indication	Bi-Color LED	Green = normal
		Red = replace
Response Time	< 5ns	
Input (surge side)	NEMA 5-15 Plug	
Output (equipment side)	NEMA 5-15 Receptacle	
Mechanical		
Location Category	Indoor only	
Method of Mounting	Plug in	
Dimension (H x W x D)	2.9” x 2.8” x 2.4” (75mm x 72mm x 61mm)	
Weight (Max)	0.3lb (0.13kg)	
Environmental		
Operating Temperature	-40ºC to +70ºC	
Relative Humidity	≤95% non-condensing	
Enclosure Protection Level	IP20	
Housing Inflammability Rating	PA66-UL94 V-0	
Certifications	RoHS compliant, UL, CUL	

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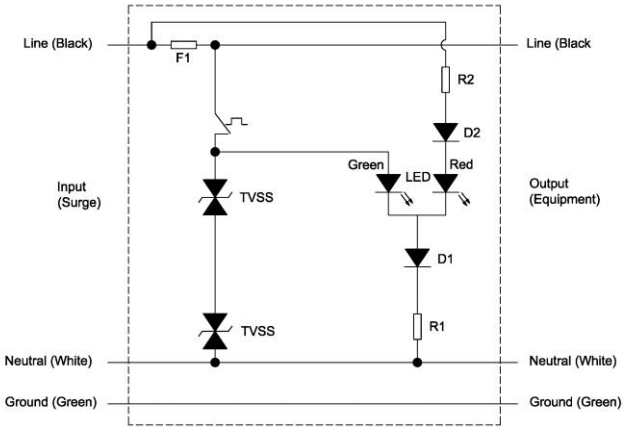
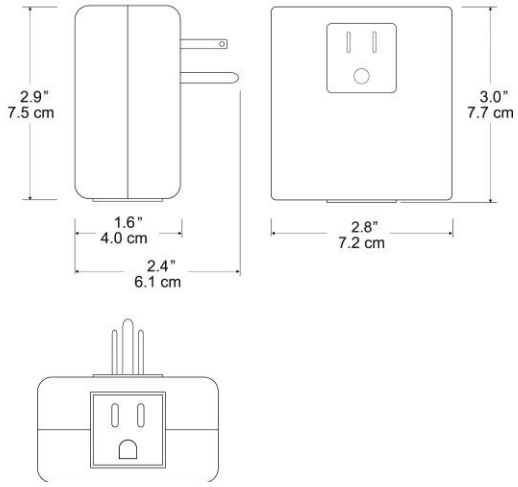
Schematic



Structure



Installation and Wiring

CAUTION: To Reduce The Risk of Electric Shock Use Only Indoors.
CAUTION: Use Only In Dry Locations.
ATTENTION: Utiliser Uniquement Dans Des Emplacements Sec.

1. Install only in a dry indoor electrical outlet suitably protected from moisture and weather elements such as windblown fog, rain and snow.
2. Insert the SLN 120 into a 120 Vac NEMA 5-15 outlet.
3. Plug in the NEMA 5-15 cord of the equipment to be protected, making sure to follow all cable management practices to ensure that all connections are secure. Special steps may be required if you are installing in an earthquake zone.
4. A green LED verifies the SPD is operational.
5. A non-illuminated LED indicates a lack of power at the electrical outlet, please check the circuit breaker in the power panel.
6. A Red LED signals the SPD has been damaged and requires replacement.

Usage and Maintenance

1. The SPD should be scheduled for periodic inspection to ensure the SPD is operational and all wire connections are tight.
2. If SPD is damaged, contact Transtector for replacement at +1.208.772.8515 or 1.800.882.9110, or online at www.transtector.com