

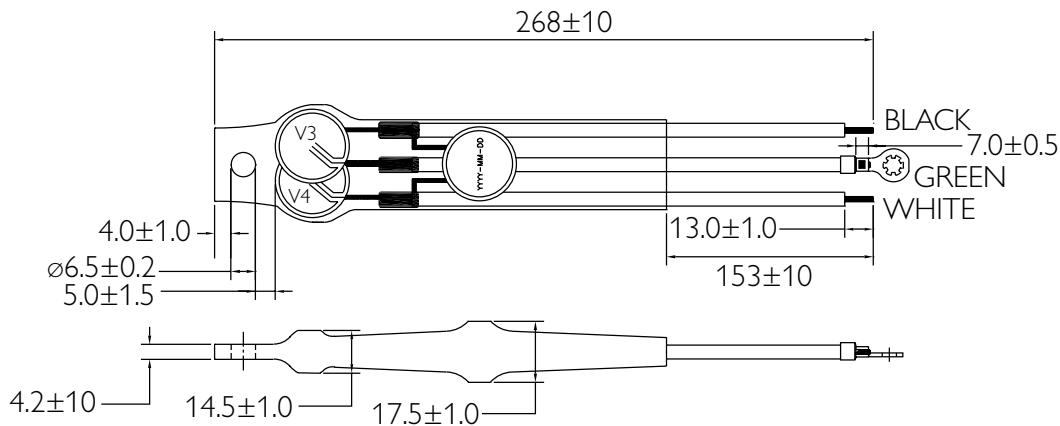
Advance SP1 surge protection device (SPD) provides protection against mains surges (common mode and differential mode) according to ANSI C82.77 Cat C med. The compact size of the SP1 device provides an ideal solution for new technology outdoor lighting luminaires.

Specifications

Catalog	SP1
Nominal Line Voltage (L-N)	120V-277V (+/- 10%)
Frequency	50Hz-60Hz
Maximum Mains Voltage to Ground (L-G and N-G)	305V
Clamping Voltage (max) @ 100A	840V (8/20us pulse)
Maximum Peak Current (single pulse)*	10kA (8/20μs pulse)
Tc Max (UL)	85°C
Wiring	14 gauges stranded wires, 105°C, 600V

* This is based on a 10kV/10kA surge pulse for combination wave specification as per IEEE C62.41

Dimensions



Caution: The SP1 surge protection device can have a non-passive failure mode at the end of life, so this device must be always installed inside a fire-resistant enclosure.

SP1 Surge Protection Device

Temperature Condition

Temperature Condition: 25°C

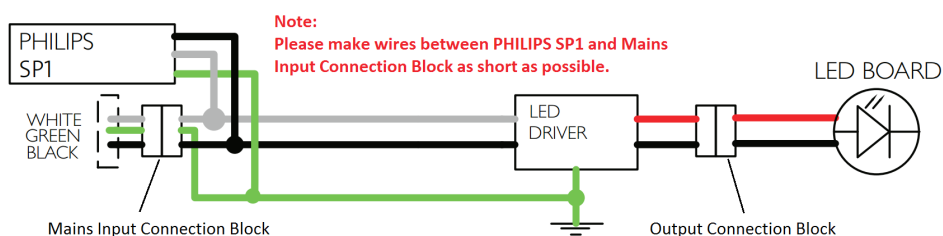
Clamping Current (A)	Approximate Clamping Voltage (V) ²	# Of Pulses ¹
10,000	1200	1
6,500	1140	2
3,000	1050	10
1,200	1000	100
700	975	1,000

Note:

1. This represents an indication of the endurance of the SPD (typical number of pulses).
2. The values are only indicative, based on some empirical measurements and are not a specification. There is a tolerance over component variations and temperature range. Tolerance can be -15% to +30%.

Wiring

Wire Color	Length	Termination
Black	140mm ± 10mm	13mm, stripped
White	140mm ± 10mm	13mm, stripped
Green	153mm ± 10mm	Ring terminal, Ø 5.5mm



Typical illustration of the wiring for surge protection device.

UL Conditions of Acceptability

Please contact your Signify representative for a copy of the latest UL Condition of Acceptability (COA).

