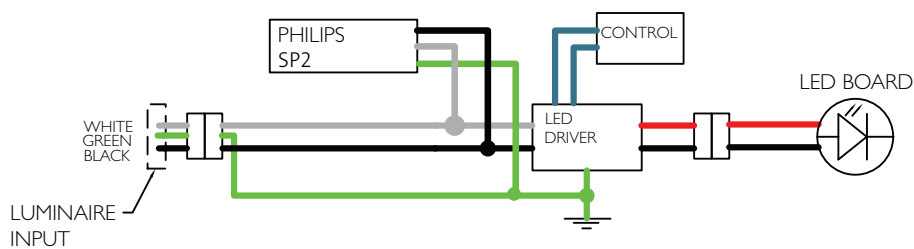


# SP2

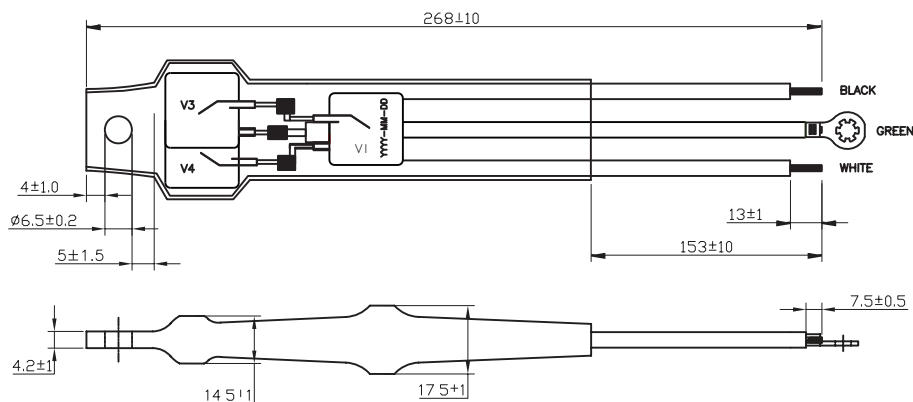
## High Energy Surge Protection Device

Philips SP2 high energy and high peak current surge protection device has been designed for electrical immunity in worst outdoor locations. With an all phases protection for line/neutral, line/ground and neutral/ground and a peak current rating twice the IEEE C62.41.2-2002 C-High recommendation (22KA), outdoor LED luminaires benefit of the best protection against lightning and switching surge event. Compliant with the new Elevated Electrical Immunity Requirement per the U.S. Department of Energy (DOE) Municipal Solid State Street Lighting Consortium (MSSLC) Model Specification of LED Roadway Luminaires. The SP2 small size corresponds to the current design requirements for the new technology luminaires, like a LED light engine in outdoor lighting.



<b>Voltage Input:</b>	120V-277V (+/- 10%)
<b>Frequency:</b>	50Hz-60Hz
<b>Maximum Continuous RMS Voltage AC:</b>	320V
<b>Maximum Clamping Voltage (8/20µs):</b>	825V
<b>Maximum Energy:</b>	820 Joules
<b>Maximum Peak Current:</b>	22KA (8/20us standard wave)
<b>Wiring:</b>	14 Gauges stranded wires, 105°C, 600V
<b>Wire Connections:</b>	Black and white: 12mm skinned Green: 12mm skinned with terminal malt
<b>Mounting hole:</b>	6.5mm
<b>Weight:</b>	0.16 lbs
<b>Ambient Temperature (Operating):</b>	-55°C to 85°C

In order to protect the surrounding environment, this surge protection device must be enclosed in a luminaire that can contain flames and sparks, which may occur in case of malfunction, such as overvoltage power connection (ex:600V).



UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN MILLIMETER (mm)