

# Surge Protector SP1-EI

## DATASHEET

Two-stage transient voltage protectors provide primary and secondary protection against lightning, switching, and electrostatic discharges. Provides protection on 4-20mA, sensor, and AC Power in one convenient enclosure.

### Features

- Automatic Reset - will not interrupt service
- Nanosecond response time
- No maintenance required

### Specifications

- Operating Temperature: -40 °C to +85 °C
- Enclosure: NEMA4 Steel

#### 4-20mA Protector

Protex 420E2 - Maximum Ratings

- Operating Line Current: 100mA
- Transient Source Voltage: 6kV
- Transient Current (8/20 $\mu$ s): 10kA/Line

#### AC Power Line Surge Suppressor

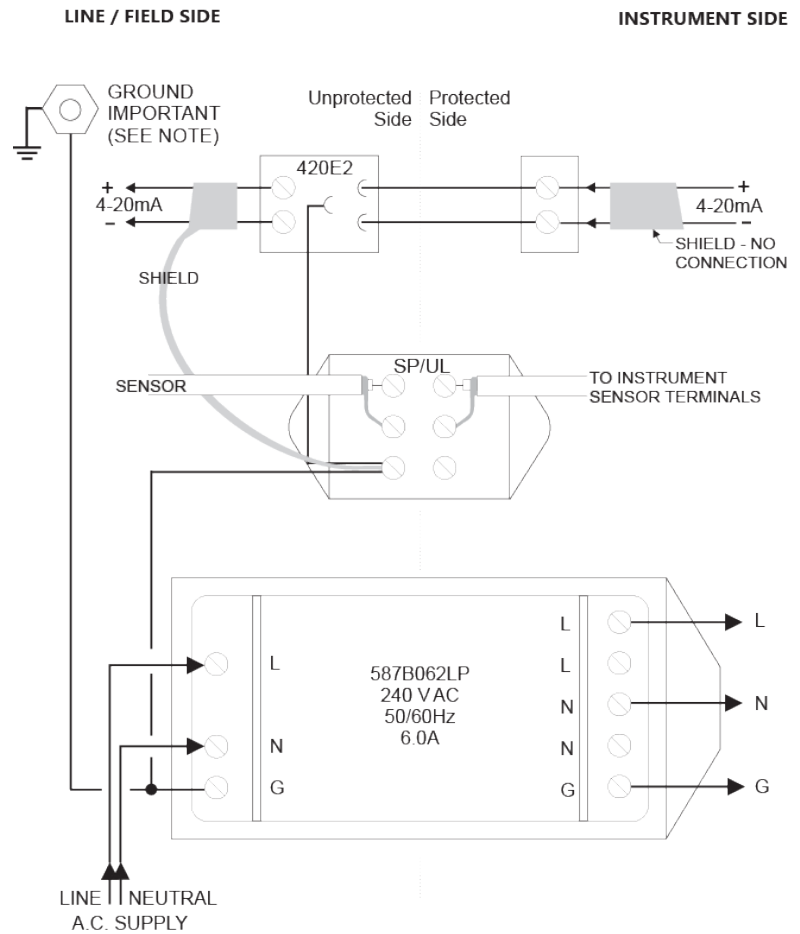
Protex 587B - Maximum Ratings

- Line Voltage: 240 VAC
- Line Current: 6.0 A
- Transient Voltage: 6,000 V peak
- Transient Current: 3000 A peak
- CSA/NRTL Certified

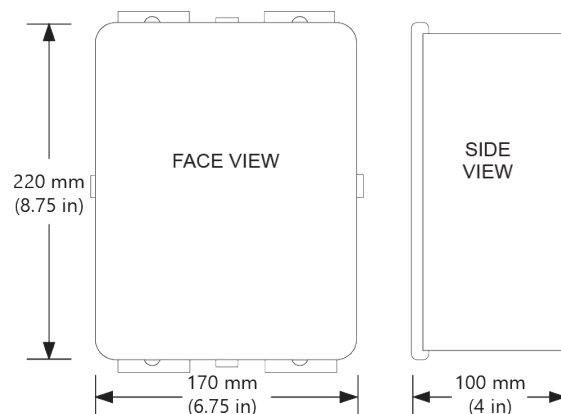
### Installation Notes

- Cables between the SP1 Surge Protector enclosure and the Pulsar meter electronics should be as close as possible and should not exceed 1.3 m (4 ft) length.
- Lightning contains a broad spectrum of frequencies up to 1 MHz. A low impedance path to earth ground is necessary. A ground strap or a #6 AWG stranded wire is recommended.
- Sensor connection for instruments with ISB option should not be made to SP1. Connect directly to intrinsic safety barriers.
- Use Greenlee-type hole cutter to make conduit entries in enclosure.

### Connections



### Enclosure Dimensions



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