

# Surge Protection SP4

## 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

Protek 420E236 - Maximum Ratings

- Operating Line Current: 100mA
- Transient Source Voltage: 6kV
- Transient Current (8/20µs): 5kA/Line

#### Sensor Protector

Protek 422ELC - Maximum Ratings

- Operating Line Current: 200mA
- Transient Source Voltage: 20kV
- Transient Current (8/20µs): 10kA/Line

#### AC Power Line Surge Suppressor

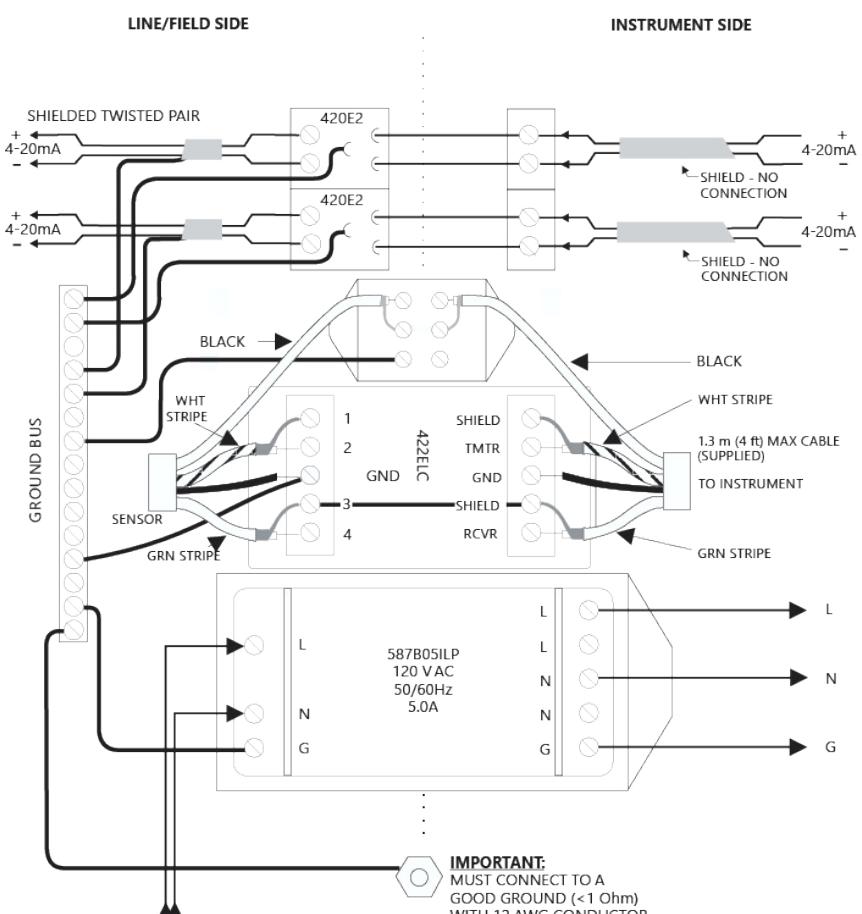
Protek 587B - Maximum Ratings:

- Line Voltage: 130 V AC
- Line Current: 5.0 A
- Transient Voltage: 6,000 V peak
- Transient Current: 3,000 A peak
- CSA/NRTL Certified

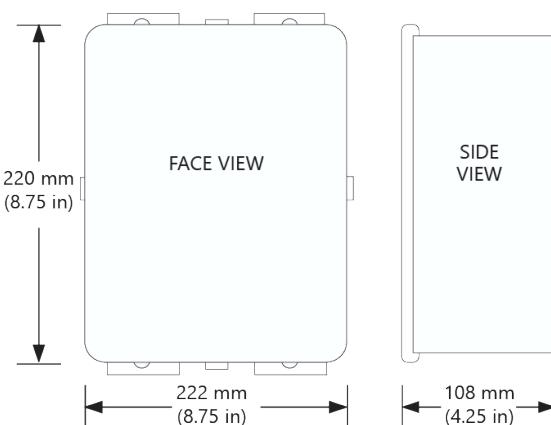
### Installation Notes

- Cables between the SP4 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 AVFM with 3ISB option should not be made to SP4. Connect directly to intrinsic safety barriers.
- Use Greenlee-type hole cutter to make conduit entries in enclosure.

### Connections



### Enclosure Dimensions



INFO@PULSARMEASUREMENT.COM

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Registered Address: 1 Chamberlain Square CS, Birmingham B3 3AX  
Registered No.: 3345604 England & Wales

**United States**  
+1 888-473-9546

**Asia**  
+60 102 591 332

**Canada**  
+1 855-300-9151

**Oceania**  
+61 428 692 274

**United Kingdom**  
+44 (0) 1684 891371

**pulsarmeasurement.com**