**FEATURES**

- Modular Electronics
- Built-In Static Protection
- DPDT Relay
- Rugged Probe Designs
- Ambient Temperatures Up to 185°F (85°C)
- Explosion-Proof Enclosure
- 5, 10 or 15 Second Time Delay

**APPLICATIONS**

**DRY BULK APPLICATIONS**

- High or Low Level Alarm
- Plugged Chute Detection
- Fly Ash Hopper Level
- Pellets
- Granules
- Powders
- Chips
- Flakes

**SPECIAL APPLICATIONS**

- High Temperature
- Corrosive Environments
- High Pressure
- Special Probe Materials

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Environmental</th>
<th>Explosion-Proof, Powder Coated, Copper Free Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>Electronics: -40 to 185°F / -40 to 85°C Ambient</td>
</tr>
<tr>
<td>Dielectric</td>
<td>Ideal: 10 or greater; Consult factory for probe selection on lower dielectric applications</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
<th>95-130 VAC, 50-60 Hz, 2 Watts; 9-35 VDC, 100 mA Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power</td>
<td>Resistive: 5 Amp, 250 VAC; 5 Amp, 30 VDC; Inductive: 1/10 HP 125, 250 VAC</td>
</tr>
<tr>
<td>Relay Contact Rating</td>
<td>Maximum Surge Current: 100 amps; Clamp Voltage: 16 volts</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Approvals</th>
<th>XP-DIP-AIS / I,II,III / 1 / BCDEFG with all probes except type 5, S, U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Factory Mutual</td>
<td>DIP-AIS / II, III / 1 / EFG with probe type 5, S, U</td>
</tr>
<tr>
<td></td>
<td>NEMA 4</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

- Insulator Length: 4 in.
- Probe Length: 4 in.
- MIN TURNING RADIUS: 4 in.
- NPT: 3 in.
- Total Length: 4.5 in.

**OPTIONS**

- Teflon or PVC Sheathed Probe or Cable
- Extended Lower Bushing
- Flanged Process Connections
- Epoxy Coated Aluminum Enclosure

**LIQUID APPLICATIONS**

- High or Low Level Alarm
- Interface
- Slurries
- Flow / No Flow
- Liquid / Foam Interface
- Foams
- Conductive Products
- Non-Conductive Products
- Organic
- Inorganic

**APPLICATIONS**

**LIQUID APPLICATIONS**

- High or Low Level Alarm
- Interface
- Slurries
- Flow / No Flow
- Liquid / Foam Interface
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- Conductive Products
- Non-Conductive Products
- Organic
- Inorganic

**SOLID PROBE RODS AVAILABLE IN LENGTHS TO 24 FT. AND CABLE PROBES FOR LONGER LENGTHS**
## Operating Information

### A77\a/b/c/d/e/f:

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 VAC</td>
<td>240 VAC</td>
<td>12 VDC / 24 VDC</td>
<td></td>
</tr>
</tbody>
</table>

### Probe Type

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Operating Temp</th>
<th>Hazardous Area Code</th>
<th>Operating Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>316SS Probe / 4” *Delrin® Lower Bushing</td>
<td>A</td>
<td>B</td>
<td>A</td>
</tr>
<tr>
<td>2</td>
<td>316SS Probe / 4” *Teflon® Lower Bushing</td>
<td>C</td>
<td>B</td>
<td>A</td>
</tr>
<tr>
<td>5</td>
<td>Fly Ash Probe / 8” 316SS Inactive Sheath</td>
<td>D</td>
<td>E</td>
<td>B</td>
</tr>
<tr>
<td>6</td>
<td>Bare Cable / 13” 316SS Weight</td>
<td>A</td>
<td>B</td>
<td>D</td>
</tr>
<tr>
<td>8</td>
<td>Teflon Covered Cable / 13” Nylon Weight</td>
<td>A</td>
<td>B</td>
<td>D</td>
</tr>
<tr>
<td>C</td>
<td>Bare Cable Superflex™ for External Mounting</td>
<td>n/a*</td>
<td>n/a*</td>
<td>n/a*</td>
</tr>
<tr>
<td>N</td>
<td>*Teflon® Covered Cable / 13” *Teflon® Weight</td>
<td>C</td>
<td>B</td>
<td>D</td>
</tr>
<tr>
<td>B</td>
<td>Macroprobe (3/4” OD Probe *Delrin® Bushing)</td>
<td>A</td>
<td>B</td>
<td>A</td>
</tr>
<tr>
<td>T</td>
<td>Macroprobe (3/4” OD Probe *Teflon® Bushing)</td>
<td>C</td>
<td>B</td>
<td>A</td>
</tr>
<tr>
<td>K</td>
<td>Quick Release Clamp Probe / 4” *Teflon® Bushing</td>
<td>A</td>
<td>B</td>
<td>A</td>
</tr>
<tr>
<td>L</td>
<td>Quick Release Clamp Probe / *Teflon® Sheathed Probe</td>
<td>A</td>
<td>B</td>
<td>A</td>
</tr>
<tr>
<td>R</td>
<td>*Teflon® Sheathed Probe / 316SS Mounting Nipple</td>
<td>C</td>
<td>B</td>
<td>A</td>
</tr>
<tr>
<td>S</td>
<td>*Teflon® Sheathed Probe / *Teflon® Mounting Nipple</td>
<td>C</td>
<td>E</td>
<td>D</td>
</tr>
<tr>
<td>U</td>
<td>Flush Mount Detector – Aluminum / *Delrin® Bushing</td>
<td>A</td>
<td>E</td>
<td>D</td>
</tr>
</tbody>
</table>

* Ambient & atmospheric conditions only

### Probe Length

- XXX Rigid Probe in Inches; Cable Probe in Feet

### Options

- O No Options
- C Epoxy Coated Aluminum Enclosure
- F Flanged Connection (Specify Loose or Welded, SLG-0001-1)
- L Stainless Steel Tags
- Z Any special option (such as Extended Lower Bushing) not included in above description
- Delrin extended lower bushing
- Teflon extended lower bushing

*Registered Trade Mark of E.I.DuPont Corp.

### Operating Temperature Codes

- A -40 to 185°F / -40 to 85°C
- B -40 to 320°F / -40 to 160°C
- C -40 to 450°F / -40 to 230°C
- D 200 to 1400°F / 95 to 760°C

### Operating Pressure Codes

- A 1500 psi @ 77°F / 103 bar @ 25°C
- B Static Head Only (Consult Factory)
- C 150 psi / 10.3 bar
- D 100 psi / 7 bar

### Hazardous Area Codes

- B XP-DIP-AIS / I,II,III / 1 /BCDEFG
- E DIP-AIS / II,III / 1 / EFG

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