Differential Pressure Switches

Rugged Series A4 Differential Pressure Switch offers field adjustments and can handle system pressures up to 6000 psig. Piston design allows mounting in any orientation. The switch is capable of carrying moderate shock and vibratory loads.

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Two opposing bellows combine maximum sensitivity and vibration resistance with moderate cost in the Series DP differential pressure switches. Both set and reset points are easily adjustable through non-interactive, externally accessible controls. Visible setpoints simplify changes. SPDT snap action switch, 316 stainless steel or brass bellows, flanged steel housing. Rated pressures to 600 psig.

Visible Setpoints, Adjustable or Fixed Deadband...High Pressure Ranges

Adjustable Deadband

<table>
<thead>
<tr>
<th>Bellows Material</th>
<th>Range psig (bar)</th>
<th>Max. Press psig (bar)</th>
<th>Snap Action Switch SPDT, 15A @ 120/240 VAC</th>
<th>Model</th>
<th>D.B. psid (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass</td>
<td>0-10 (0-0.7)</td>
<td>50 (3.5)</td>
<td>DPA-7033-153-61</td>
<td>1.5</td>
<td>0.03</td>
</tr>
<tr>
<td>Brass</td>
<td>0-20 (0-1.4)</td>
<td>100 (6.9)</td>
<td>DPA-7033-153-62</td>
<td>2.5</td>
<td>0.07</td>
</tr>
<tr>
<td>Brass</td>
<td>0-30 (0-2.1)</td>
<td>150 (10.3)</td>
<td>DPA-7033-153-63</td>
<td>3.0</td>
<td>0.10</td>
</tr>
<tr>
<td>Brass</td>
<td>0-40 (0-2.8)</td>
<td>200 (13.8)</td>
<td>DPA-7033-153-64</td>
<td>4.0</td>
<td>0.14</td>
</tr>
<tr>
<td>Brass</td>
<td>0-50 (0-3.5)</td>
<td>250 (17.2)</td>
<td>DPA-7033-153-65</td>
<td>5.0</td>
<td>0.20</td>
</tr>
<tr>
<td>Brass</td>
<td>0-60 (0-4.2)</td>
<td>300 (20.7)</td>
<td>DPA-7033-153-66</td>
<td>6.0</td>
<td>0.30</td>
</tr>
<tr>
<td>Brass</td>
<td>0-70 (0-4.9)</td>
<td>350 (24.5)</td>
<td>DPA-7033-153-67</td>
<td>7.0</td>
<td>0.40</td>
</tr>
<tr>
<td>Brass</td>
<td>0-80 (0-5.6)</td>
<td>400 (27.4)</td>
<td>DPA-7033-153-68</td>
<td>8.0</td>
<td>0.50</td>
</tr>
<tr>
<td>Brass</td>
<td>0-90 (0-6.3)</td>
<td>450 (30.3)</td>
<td>DPA-7033-153-69</td>
<td>9.0</td>
<td>0.60</td>
</tr>
<tr>
<td>Brass</td>
<td>0-100 (0-6.9)</td>
<td>500 (34.1)</td>
<td>DPA-7033-153-70</td>
<td>10.0</td>
<td>0.70</td>
</tr>
</tbody>
</table>

Fixed Deadband

<table>
<thead>
<tr>
<th>Bellows Material</th>
<th>Range psig (bar)</th>
<th>Max. Press psig (bar)</th>
<th>Snap Action Switch SPDT, 15A @ 120/240 VAC</th>
<th>Model</th>
<th>D.B. psid (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass</td>
<td>0-10 (0-0.7)</td>
<td>50 (3.5)</td>
<td>DPA-7033-153-61</td>
<td>0.5</td>
<td>0.03</td>
</tr>
<tr>
<td>Brass</td>
<td>0-20 (0-1.4)</td>
<td>100 (6.9)</td>
<td>DPA-7033-153-62</td>
<td>1.0</td>
<td>0.07</td>
</tr>
<tr>
<td>Brass</td>
<td>0-30 (0-2.1)</td>
<td>150 (10.3)</td>
<td>DPA-7033-153-63</td>
<td>1.5</td>
<td>0.10</td>
</tr>
<tr>
<td>Brass</td>
<td>0-40 (0-2.8)</td>
<td>200 (13.8)</td>
<td>DPA-7033-153-64</td>
<td>2.0</td>
<td>0.14</td>
</tr>
<tr>
<td>Brass</td>
<td>0-50 (0-3.5)</td>
<td>250 (17.2)</td>
<td>DPA-7033-153-65</td>
<td>2.5</td>
<td>0.20</td>
</tr>
<tr>
<td>Brass</td>
<td>0-60 (0-4.2)</td>
<td>300 (20.7)</td>
<td>DPA-7033-153-66</td>
<td>3.0</td>
<td>0.30</td>
</tr>
<tr>
<td>Brass</td>
<td>0-70 (0-4.9)</td>
<td>350 (24.5)</td>
<td>DPA-7033-153-67</td>
<td>4.0</td>
<td>0.40</td>
</tr>
<tr>
<td>Brass</td>
<td>0-80 (0-5.6)</td>
<td>400 (27.4)</td>
<td>DPA-7033-153-68</td>
<td>5.0</td>
<td>0.50</td>
</tr>
<tr>
<td>Brass</td>
<td>0-90 (0-6.3)</td>
<td>450 (30.3)</td>
<td>DPA-7033-153-69</td>
<td>6.0</td>
<td>0.60</td>
</tr>
<tr>
<td>Brass</td>
<td>0-100 (0-6.9)</td>
<td>500 (34.1)</td>
<td>DPA-7033-153-70</td>
<td>7.0</td>
<td>0.70</td>
</tr>
</tbody>
</table>

Adjustable Set Point, High Overpressure

SPECIFICATIONS

- Set Point Accuracy: ±32 (2.2) psid
- Repeatability: ±16 (1.1) psid
- Maximum Pressure: 120-250 (8.3-17.2) psi
- Temperature Limits: -65 to 225°F (-54 to 107°C)
- Pressure Limits: 2000 psid (13.8 bar), 6000 psig (413 bar)
- Mounting Orientation: Any
- Mounting Screw: Thumbscrew
- Weatherproof or explosion-proof: 1/8˝ female conduit hub; General purpose: 1/2˝ hole for conduit hub;
- Enclosure Rating: ANSI/UL 508, CSA C22.1
g
- Weight: 8.5 oz (241 g)
- Agency Approvals: CE

Model | Description |
-------|-------------|
A4-1   | Brass       |
A4-2   | Brass       |
A4-3   | Brass       |
A4-4   | Brass       |
A4-5   | Brass       |
A4-6   | 316SS       |
A4-7   | 316SS       |
A4-8   | 316SS       |
A4-9   | 316SS       |
A4-10  | 316SS       |
A4-11  | 316SS       |
A4-12  | 316SS       |
A4-13  | 316SS       |
A4-14  | 316SS       |

Series DP

Two opposing bellows combine maximum sensitivity and vibration resistance with moderate cost in the Series DP differential pressure switches. Both set and reset points are easily adjustable through non-interactive, externally accessible controls. Visible set-point indicators simplify changes. SPDT snap action switch, 316 stainless steel or brass bellows, flanged steel housing. Rated pressures to 600 psig.

Optional Enclosures

Weatherproof Enclosure — to order add “W” suffix after DPA.
Example: DPA-W – 7033-153-61

Explosion-Proof Enclosure — to order add “E” suffix after DPA.
Example: DPA-E – 7033-153-61

SPECIFICATIONS

- Temperature Limits: -65 to 225°F (-54 to 107°C).
- Pressure Limits: 2000 psid (13.8 bar), 6000 psig (413 bar).
- Mounting Orientation: See table.
- Set Point Adjustment: See table.
- Weight: 8.5 oz (241 g).
- Agency Approvals: CE.

Switch Type: Snap switch. (Contact factory for mercury switch).

Electrical Rating: See model chart.

Electrical Connection: Screw terminal.

Conduit Connection: General purpose: 1/2˝ hole for conduit hub; Weatherproof: 1/2˝ conduit hub; Explosion-proof: 3/4˝ female NPT.

Process Connection: General purpose and weatherproof: 1/8˝ female NPT, explosion-proof: 1/4˝ male NPT.

Mounting Orientation: Vertical.

Set Point Adjustment: Thumbscrew.

Weight: General purpose: 5 lb (2.3 kg), weatherproof: 7 lb (3 kg), explosion-proof: 25 lb (11 kg).

Deadband: See model chart.

Agency Approvals: CE, cUL, UL.