Neo-Dyn® Series 160P  Differential Pressure Switch
Mid-range, adjustable differential pressure switch. Efficient Nega-Rate® Belleville disc spring sensing mechanism for stable set points during system pressure changes. Hermetically sealed, explosion-proof (Division 2) design is well suited for hazardous or explosive environments. The weather proof housing makes it suitable for all of your Division 2 applications.

Operating Pressure Data

<table>
<thead>
<tr>
<th>Adjustable Range Number</th>
<th>Adjustable Set Point Range</th>
<th>Deadband (approximate)</th>
<th>Maximum Recommended System Pressure</th>
<th>Proof Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Increasing</td>
<td>Decreasing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1.1 to 15</td>
<td>.75 to 14.65</td>
<td>.35</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>500 Hi/Low</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>200 Low/Hi</td>
</tr>
<tr>
<td>4</td>
<td>1.5 to 18</td>
<td>.3 to 16.8</td>
<td>1.2</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1000 Hi/Low</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>400 Low/Hi</td>
</tr>
<tr>
<td>6</td>
<td>5 to 60</td>
<td>2 to 57</td>
<td>3</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1000 Hi/Low</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td>400 Low/Hi</td>
</tr>
<tr>
<td>7</td>
<td>55 to 110</td>
<td>49 to 104</td>
<td>6</td>
<td>500</td>
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<td></td>
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<td></td>
<td>1000 Hi/Low</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>400 Low/Hi</td>
</tr>
</tbody>
</table>

All values given in psid.

Standard Specifications

Electrical
Snap action electrical switch listed by Underwriters Laboratories, Inc. and CSA

Electrical Connection
¾” - 14 NPT female conduit connection with terminal block and ground screw

Pressure Connection
¼” - 18 NPT Female

Temperature Range
Ambient:
11 amp T4  -40°F to +165°F
(-40°C to +74°C)
5 amp T5  -40°F to +180°F
(-40°C to +82°C)
5 amp T6  -40°F to +172°F
(-40°C to +78°C)
M Option:
1 amp T6  -40°F to +180°F
(-40°C to +82°C)
Media: -40°F to +300°F
(-40°C to +149°C)

Adjustment
Concealed wrench flat adjustment with range scale

Shipping Weight
Approximately 3.5 pounds

Ordering Sequence — Select desired option for each category

OPTIONS

Wetted Material
1  Aluminum port and body, Teflon coated polyimide diaphragm, Buna-N O-Rings
and stainless steel
4  Stainless steel port and body, Teflon coated polyimide diaphragm and Buna-N O-Rings

Adjustable Range
2  .75 psid dec. to 15 psid inc. (0.1 bar dec. to 1.0 bar inc.)
4  .3 psid dec. to 18 psid inc. (0.0 bar dec. to 1.2 bar inc.)
6  2 psid dec. to 60 psid inc. (0.1 bar dec. to 4.1 bar inc.)
7  49 psid dec. to 110 psid inc. (3.4 bar dec. to 7.6 bar inc.)

Electrical Form
C  11 amps and ¼ hp 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC;
  .5 amps resistive 125 VDC
CC  11 amps and ¼ hp 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC;
  .5 amps resistive 125 VDC

Enclosure
5  Hermetically sealed (explosion proof for all Division 2 hazardous locations)

Miscellaneous
A  Epoxy paint exterior — extra protection for severe environments
B  Viton O-Ring
C  EPR O-Ring
M  Gold electrical contacts for extremely low current applications
S  Stainless steel diaphragm (Wetted Material 4 only)

Special (Consult representative or factory)
Non-catalog adjustable range and/or set point, deadband and proof pressure
Operating temperature capability from -65°F to +350°F
Chemical seals installed
Optional orientation of Low Pressure Port

Ordering Procedure

- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option number or letter designation as required

Example

Series  160P
Wetted Material  4
Adjustable Range  6
Electrical Form  C
Enclosure  5
Miscellaneous  A
**Envelope Dimensions**

Field Adjustable .3 to 110 psid

**Electrical Form**

**Basic Principles of Design**

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Enveloped for life

Form #077