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FR Cette fiche technique est présentée par le fabricant
Pressure Switches
Vacuum - High Current

Features:

- Controllable hysteresis (deadband)
- Field adjustable vacuum set point, from -3 inches H₂O to -12 psi (-2 inches H₂O available as fixed as point)
- Snap action basic switch, up to 25 A*, 125 / 250 V ac
- 0.25 inches diameter; 1/8 inches NPT, or 1/4 inches quick connect fitting port
- Custom design and engineering available
- Small size, lightweight, low relative cost
- Dependable long life (10+ million cycles)
* Not available on all ranges

Description

The versatile high-current PSF109S vacuum switch offers a controllable hysteresis (deadband); a wide-range field adjustable set point; snap action; and choice of standard vacuum port design options. For custom applications, our in-house design and engineering team provide rapid prototyping and manufacturing turnaround.

Dimensions: Inches (Millimetres)
### Specifications:

#### Mechanical

- **Standard Tolerance**: ±20 % (tighter tolerances available)
- **Switch Type**: SPDT normally open or normally closed
- **Switching Medium**: Air, compatible fluids
- **Mechanical Life**: More than 10 million cycles
- **Operating Temperature**: +40°F to +150°F (standard), -46°F to +205°F (contact us)

#### Physical

- **Case Material**: Polycarbonate (optional: Lexan 141, Ultem®, Noryl®)
- **Vacuum Port Options**: 0.250 inches diameter, 1/8 inches NPT, quick connect fitting port
- **Diaphragm Material**: Polyurethane (optional)
- **Contact Points**: Silver (gold available on special order)
- **Electrical Connectors**: Terminals- 0.187 inches × 0.02 inches tab-type for use with quick disconnects (ref. AMP #2-520182-2 or equivalent) 0.25 inches available - contact us
- **Mounting**: #2 screws through eyelets; mounting bracket available
- **Weight**: Less than 20 g

#### Electrical

- **Current Rating**: Varies by option - see adjustable vacuum set point options next page
- **Operating Voltage**: 125 / 250 V ac - see adjustable vacuum set point options

#### Specification Table

<table>
<thead>
<tr>
<th>Description</th>
<th>-Inches Hg</th>
<th>-Inches H2O</th>
<th>-mbar</th>
<th>-psi</th>
<th>Port Style (Inches)</th>
<th>Electrical 125 / 250 V ac</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Switch, Vacuum, -0.1 to -0.3 psi</td>
<td>0.2205 to 0.5878</td>
<td>3 to 8</td>
<td>8 to 20</td>
<td>0.1 to 0.3</td>
<td>1/8 NPT</td>
<td>3 A</td>
<td>PSF109S-3-8</td>
</tr>
<tr>
<td>Pressure Switch, Vacuum, -0.3 to -2.9 psi</td>
<td>0.6613 to 5.878</td>
<td>9 to 80</td>
<td>21 to 199</td>
<td>0.3 to 2.9</td>
<td>0.25 Diameter</td>
<td>10 A</td>
<td>PSF109S-9-80</td>
</tr>
<tr>
<td>Pressure Switch, Vacuum -2.9 to -11.9 psi</td>
<td>5.951 to 24.25</td>
<td>81 to 300</td>
<td>200 to 822</td>
<td>2.9 to 11.9</td>
<td>15 A</td>
<td>PSF109S-81-330</td>
<td></td>
</tr>
</tbody>
</table>

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PSF109S-81-330  PSF109S-3-8  PSF109S-9-80

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