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.
Pressure Switches
Vacuum - High Current

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, Supec® Ultem®, Noryl®)
Vacuum Port Options: 0.250 inches diameter, 1/8 inches NPT, quick connect fitting port
Diaphragm Material: Polyurethane (Teflon® 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></td>
<td>15 A</td>
<td>PSF109S-81-330</td>
</tr>
</tbody>
</table>

Important Notice: This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.