

Pressure Switch

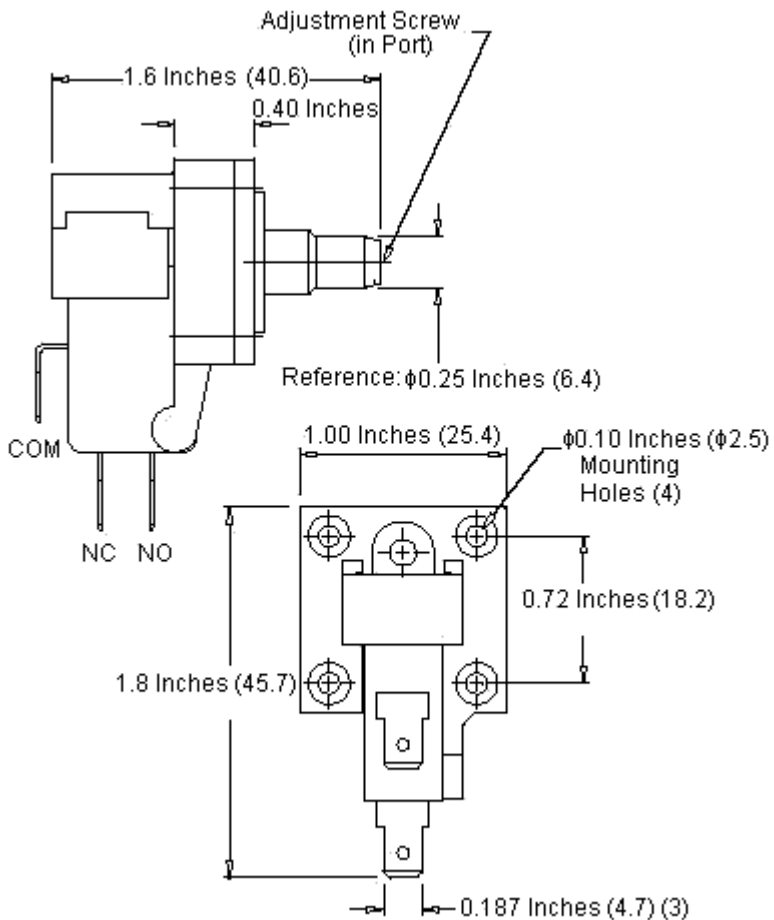
Vacuum - High Current



Features:

- Controllable hysteresis (deadband).
- Field adjustable vacuum set point, from -3 inches H₂O to -12 psi. (-2 inches H₂O available as fixed set point).
- Snap action basic switch, up to 25A*, 125/250 V ac.
- 0.250 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.



Dimensions: Inches (Millimetres)

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.

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Specifications:

Mechanical:

Standard tolerance : $\pm 20\%$ (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 : $+40^{\circ}\text{F}$ to $+150^{\circ}\text{F}$ (standard), -46°F to $+205^{\circ}\text{F}$ (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 x 0.020 inches tab-type for use with quick disconnects (ref. AMP #2-520182-2 or equivalent) 0.250 inches available - contact us.
Mounting : #2 screws through eyelets; mounting bracket available.
Weight : Less than 20grams.

Electrical:

Current rating : Varies by option - see adjustable vacuum set point options next page.
Operating voltage : 125/250V ac - see adjustable vacuum set point options.

Specification Table

Description	-In. Hg	-In.H ₂ O	-mbar	-psi	Port Style (Inches)	Electrical 125/250V ac	Part Number
Pressure Switch, 0.1 - 0.03psi	0.2205 to 0.5878	3 to 8	8 to 20	0.1 to 0.3	1/8 NPT	3A	PSF109S-3-8
Pressure Switch, 0.03 - 2.9psi	0.6613 to 5.878	9 to 80	21 to 199	0.3 to 2.9	0.250 diameter	10A	PSF109S-9-80
Pressure Switch, 2.9 - 11.9psi	5.951 to 24.25	81 to 300	200 to 822	2.9 to 11.9		15A	PSF109S-81-330

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