

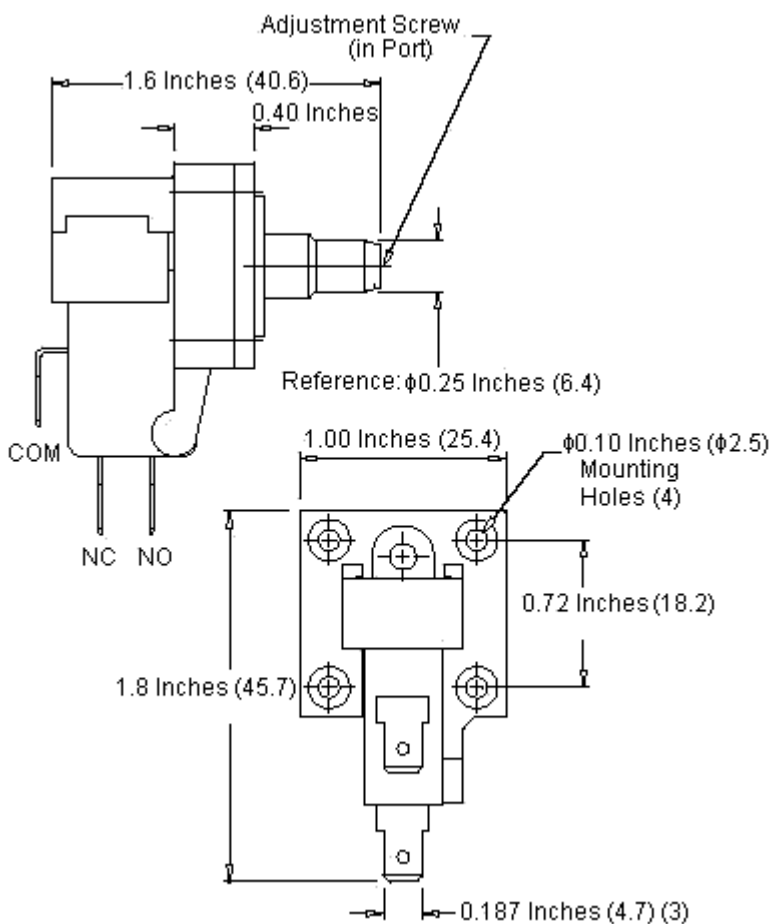
# Pressure Switch

## Vacuum - High Current



### Features:

- Controllable hysteresis (deadband).
  - Field adjustable vacuum set point, from -3 inches H<sub>2</sub>O to -12 psi. (-2 inches H<sub>2</sub>O available as fixed as 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.



### 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 Switch

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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),  $-46^{\circ}\text{F}$  to  $+205^{\circ}\text{F}$  (contact us).

#### Physical:

Case material : Polycarbonate (optional: Lexan 141, Supec<sup>®</sup> Ultem<sup>®</sup>, Noryl<sup>®</sup>).  
 Vacuum port options : 0.250 inches diameter, 1/8 inches NPT, quick connect fitting port.  
 Diaphragm material : Polyurethane (Teflon<sup>®</sup> 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 <sub>2</sub> 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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