

# Pressure Switches

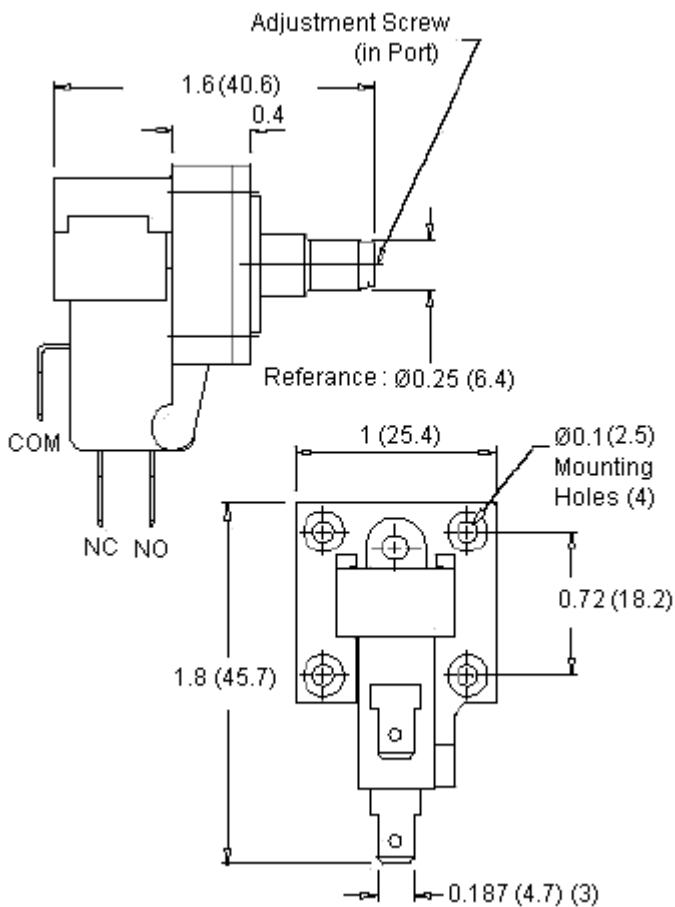
## Vacuum - High Current



### 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 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



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 : ±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

Description	-Inches Hg	-Inches H <sub>2</sub> O	-mbar	-psi	Port Style (Inches)	Electrical 125 / 250 V ac	Part Number
Pressure Switch, Vacuum,-0.1 to -0.3 psi	0.2205 to 0.5878	3 to 8	8 to 20	0.1 to 0.3	1/8 NPT	3 A	PSF109S-3-8
Pressure Switch, Vacuum, -0.3 to -2.9 psi	0.6613 to 5.878	9 to 80	21 to 199	0.3 to 2.9	0.25 Diameter	10 A	PSF109S-9-80
Pressure Switch, Vacuum -2.9 to -11.9 psi	5.951 to 24.25	81 to 300	200 to 822	2.9 to 11.9		15 A	PSF109S-81-330

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