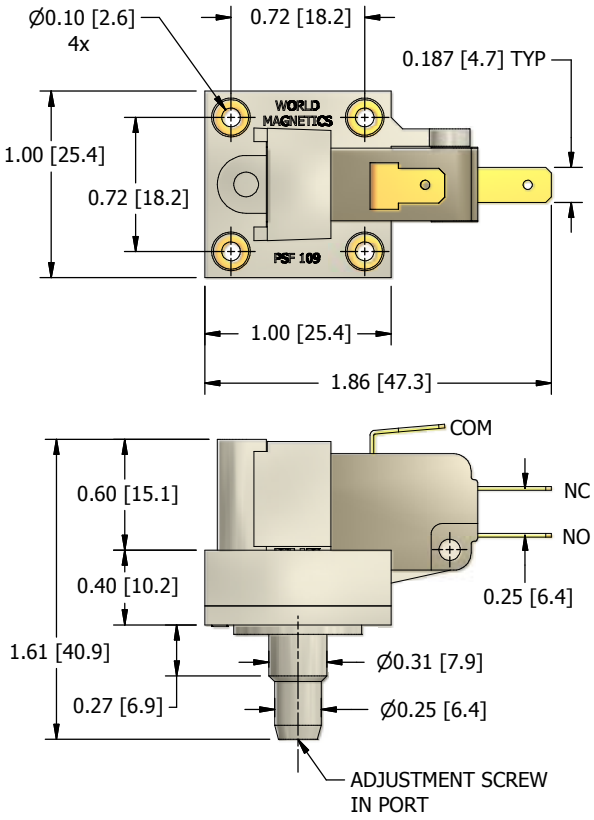


E41523 Made in USA RoHS

MODEL PSF109S



The versatile high-current PSF109S vacuum switch offers 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 provides rapid prototyping and manufacturing turnaround.

FEATURES / BENEFITS

- Field adjustable vacuum set point ranges, from -3" H_2O to -12 psi
- Snap action basic switch, up to 25A*, 125/250 VAC
  *Not available on all ranges
- .250" diameter; 1/8" NPT; or 1/4" Quick Connect Fitting port
- Custom design and engineering available
- Small size, lightweight, low cost
- Dependable long life (10+ million cycles)

DesignFLEX

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 Temp.	+40°F to +150°F (standard) | -46°F to +205°F (contact us)
PHYSICAL	
Case Material	Polycarbonate (optional: Lexan 141, Ryton, Ultem®, Noryl®)
Vacuum Port Options	.250" diameter, 1/8" NPT, Quick Connect Fitting Port
Diaphragm Material	Polyurethane / Teflon® (other material options available)
Contact Points	Silver (Gold available on special order)
Electrical Connections	Terminals – .187"x.020" tab-type for use with quick disconnects (ref. AMP #2-520182-2 or equivalent) .250" available — contact us
Mounting	#2 Screws through eyelets
Weight	Less than 20 grams
ELECTRICAL	
Current Rating	Varies by option – see Adjustable Vacuum Set Point Options overleaf
Operating Voltage	125/250 VAC– see Adjustable Vacuum Set Point Options (overleaf)

ADJUSTABLE VACUUM SET POINT / PORT / ELECTRIC RATING OPTIONS

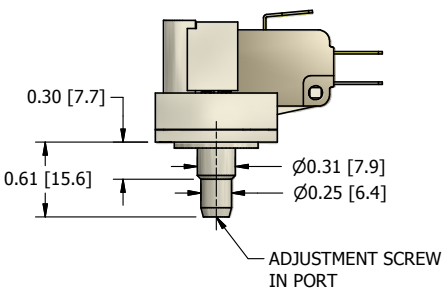
	20161	20112	20623
Description	109S-3-8	109S-9-80	109S-81-330
- In. Hg	0.2205 to 0.5885	0.6613 to 5.878	5.951 to 24.25
- In. H_2O	3 to 8	9 to 80	81 to 330
- mbar	7.5 to 20	22 to 199	202 to 822
- psi	0.1 to 0.30	0.30 to 2.90	2.9 to 11.9
Port Style (see drawing below)	A	A	A
Electrical 125/250VAC Resisitive Load	3A	10A	15A

	20901	20890	20897
Description	109S-NPT-3-8	109S-NPT-9-80	109S-NPT-81-330
- In. Hg	0.2205 to 0.5885	0.6613 to 5.878	5.951 to 24.25
- In. H_2O	3 to 8	9 to 80	81 to 330
- mbar	7.5 to 20	22 to 199	202 to 822
- psi	0.10 to 0.30	0.30 to 2.90	2.9 to 11.9
Port Style (see drawing below)	B	B	B
Electrical 125/250VAC Resisitive Load	3A	10A	15A

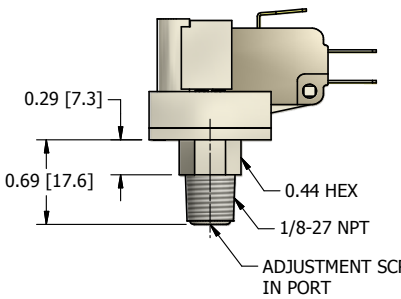
	21472	21473	21474
Description	109S-QC-3-8	109S-QC-9-80	109S-QC-81-330
- In. Hg	0.2205 to 0.5885	0.6613 to 5.878	5.951 to 24.25
- In. H_2O	3 to 8	9 to 80	81 to 330
- mbar	7.5 to 20	22 to 199	202 to 822
- psi	0.10 to 0.30	0.30 to 2.90	2.9 to 11.9
Port Style (see drawing below)	C	C	C
Electrical 125/250VAC Resisitive Load	3A	10A	15A

SAMPLE SWITCH available by request – Call 1-800-643-3884

PORT STYLE A
Ø 0.25 STEPPED AXIAL PORT



PORT STYLE B
1/8-27 NPT PORT



PORT STYLE C
JOHN GUEST
(QUICK DISCONNECT)

