

Pressure Switch

High Current

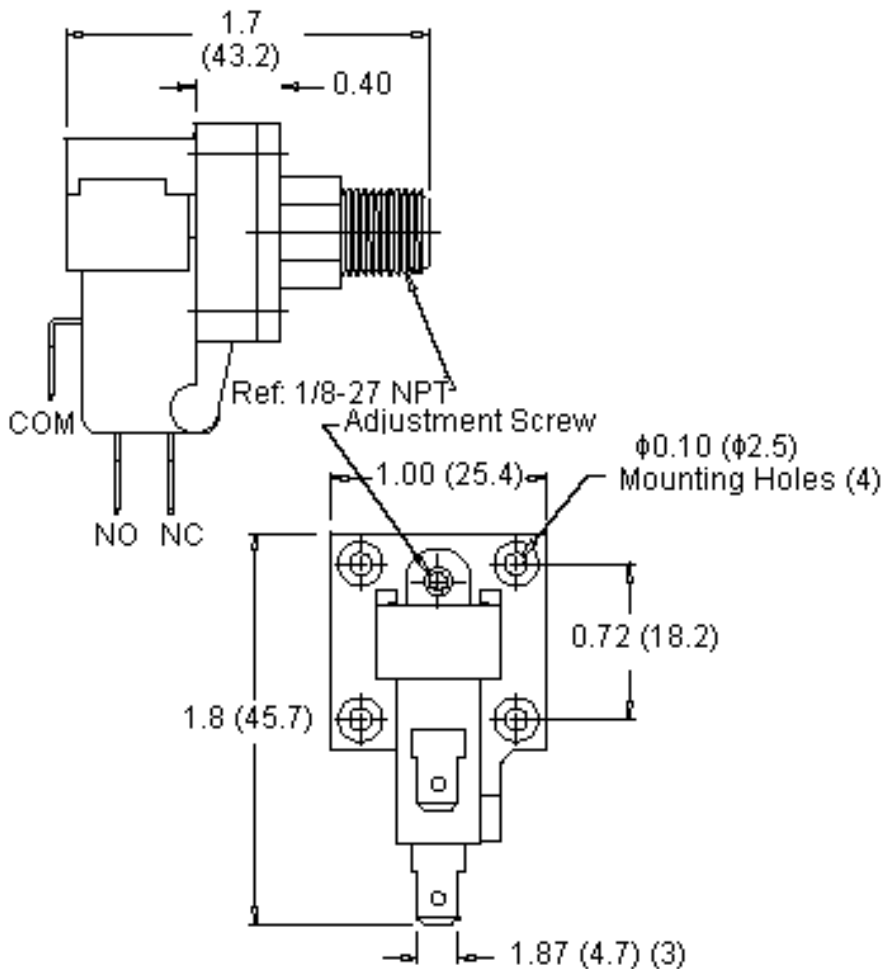


Features / Benefits:

- Controllable hysteresis (dead band)
- Field adjustable pressure set point, from 3 inches H₂O to 60 psi
- Snap action basic switch, up to 25A*, 125/250 VAC.
- Many standard pressure ports and mounting options.
- Custom design and engineering available.
- Dependable long life (10+ million cycles).



* Not available on all ranges



Dimensions : Millimetres

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Specifications:

Mechanical	
Standard tolerance	±20% (Tighter tolerances available)
Switch type	SPDT (single pull/double throw) normally open or normally closed
Switching medium	Air : compatible fluids
Mechanical life	More than 10 million cycles
Proof pressure	Varies by option - see adjustable pressure set point options next page
Operating temperature	+40°F to +150°F (standard) -46°F to +205°F (contact us)
Physical	
Case material	Polycarbonate (optional : Lexan 141, Supec®, Ultem®, Nylon®)
Pressure port options	Many standard ports - see pressure port / cover options next page
Diaphragm material	Polyurethane (Teflon® optional with limited pressure ranges)
Contact points	Silver (Gold available on special order)
Electrical connections	Terminals - 0.187 inches x 0.020 inches tab - types for use with quick disconnects (ref. AMP #2-520182-2 or equivalent) 0.250 inches available
Mounting	#4 screws through mounting lugs; #2 screws through eyelets; mounting bracket available
Weight	Less than 20 grams
Electrical	
Current rating	Varies by option - see adjustable pressure set point options next page
Operating voltage	See adjustable pressure set point options next page

Design Flex Standard Options

Designflex™ standard options - choose from our standard PSF103 options as shown or contact our vertically integrated in-house design and engineering team for special features and unique application needs. Free sample switch available by request.

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Adjustable Pressure Set Point Options

	020	902	903	904	905	906	
In. H ₂ O	2 ±0.5	3 to 10	10 to 28	28 to 111	111 to 416	416 to 1664	-
mbar	5	7.5 to 25	25 to 69	69 to 276	276 to 1034	1034 to 4137	-
psi	0.1	0.11 to 0.4	0.4 to 1.0	1.0 to 4.0	4.0 to 15.0	15.0 to 60.0*	*Teflon diaphragm 30 psi maximum
Proof Pressure (Polyurethane)	30 psi	30 psi	30 psi	30 psi	100 psi	100 psi	-
Proof Pressure (Teflon®)	15 psi	15 psi	30 psi	30 psi	30 psi	30 psi	-
Electrical 125/250 VAC	3A	3A	10A	15A	15A	15A	-

Pressure Port / Cover Options

00		01		02		03		04	
	Smooth Port .156" diameter for 1/8" id tubing w/mtg. lugs		Smooth Port .156" diameter for 1/8" id tubing w/o mtg. lugs		Barbed Port for 3/16" id tubing on terminals side w/mtg. lugs		Barbed Port for 3/16" id tubing opposite terminals w/mtg. lugs		Barbed Port for 3/16" id tubing on terminals side w/o mtg. lugs
05		06		07		08		09	
	Barbed Port for 3/16" id tubing opposite terminals w/o mtg. lugs		1/8" NPT Port		Flo-thru barbed Port for 1/8" id tubing w/o mtg. lugs		Smooth Port .250" diameter for 7/32" id tubing w/o mtg. lugs		Smooth Port .250" diameter for 7/32" id tubing w/mtg. lugs
10		11		12		13		14	
	Barbed Port for 1/8" id tubing on terminals side w/mtg. lugs		Barbed Port for 1/8" id tubing opposite terminals w/mtg. lugs		Barbed Port for 1/8" id tubing on terminals side w/o mtg. lugs		Barbed Port for 1/8" id tubing opposite terminals w/o mtg. lugs		1/4" Port for Quick Connect Fitting

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Diaphragm options

1. Polyurethane (standard)
 2. Teflon (optional)
- Other / custom porting and mounting options available

Model design guide for building standard model order number	PSF103 Series Number	Pressure Port/Cover Option Number		Diaphragm Option Number	Three Digit Pressure Set Point Option Number		
	9	-	-	-	-	-	-

Part Number Table

Description	Part Number
Pressure Switch, 0.11 - 0.4 Psi	PSF103-9011-902
Pressure Switch, 0.4 - 1 Psi	PSF103-9011-903
Pressure Switch, 1 - 4 Psi	PSF103-9011-904

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