



E41523



Made in USA **RoHS**

FEATURES / BENEFITS

- Field adjustable set point - from 0.1" H₂O to 25 psi
- High resolution / high accuracy field adjustment mechanism
- Many standard ports and mounting options
- Custom design and engineering available
- Miniature size, lightweight, low cost
- Dependable long life (20+ million cycles)
- Gold contact points
- PCB terminals available



SPECIFICATIONS

MECHANICAL

Standard Tolerance	Varies by option – see Set Point Options next page
Switch Type	SPST (single pull / single throw) normally open
Switching Medium	Air; compatible fluids on "High" port side
Mechanical Life	More than 20 million cycles
Proof Pressure	Varies by option – see Set Point Options next page
Operating Temp.	+40°F to +150°F (standard) -46°F to +205°F (contact us)

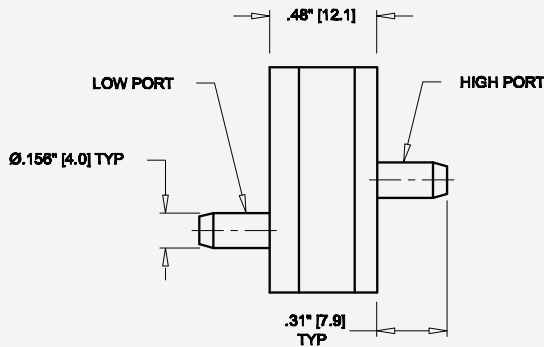
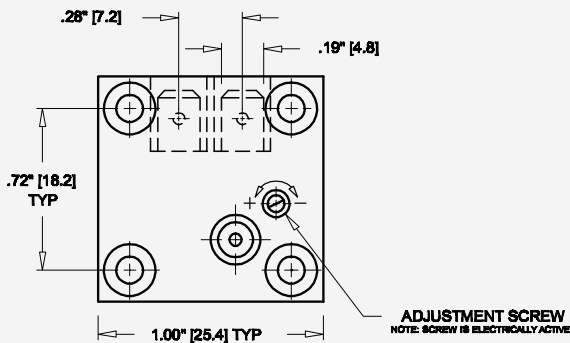
PHYSICAL

Case Material	Polycarbonate (optional: Lexan 141, Superc®, Ultem®, Noryl®)
Porting Options	Many standard ports - see Low Port / High Port Options next page
Diaphragm Material	Polyurethane (Teflon® optional)
Contact Points	Gold
Electrical Connections	Terminals – .187"x.020" spade (recessed) for use with quick disconnects uninsulated (ref. AMP Faston, 187 Series) (PCB terminals available)
Mounting	#4 Screws through mounting lugs; #2 Screws through eyelets; mounting clip or bracket available (see page 15)
Weight	Less than 10 grams

ELECTRICAL

Current Rating	40mA resistive for life in excess of 20 million cycles
Operating Voltage	AC/DC – 30V or less with resistive load; 120 VAC neon lamp load

Note: For higher load capabilities see our PSF103, PSF109 and Goldtech series switches.



Shown with Low Port Option #2 / High Port Option #1



DESIGNFLEX STANDARD OPTIONS

World Magnetics' exclusive DesignFlex™ feature allows you to quickly custom design a proven pressure, vacuum or differential switch for your application. Choose from our standard PSF102 options as shown or contact our vertically integrated in-house design and engineering team for special features.

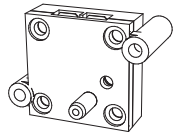
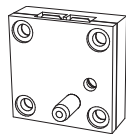
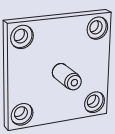
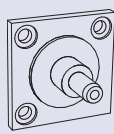
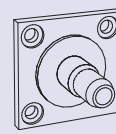
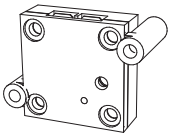
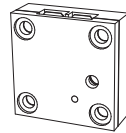

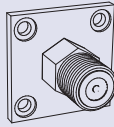
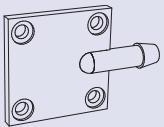
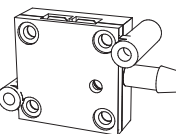
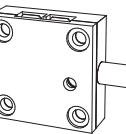
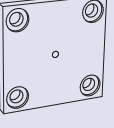
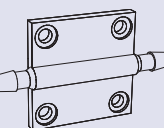
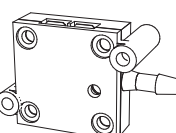
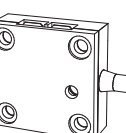
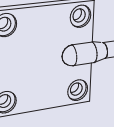
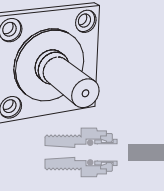
SET POINT OPTIONS

		710*	711	712	713	723	714
In. H ₂ O	0.03 to 0.1	0.1 to 0.5	0.5 to 2.0	2.0 to 15.0	15.0 to 60.0	60.0 to 100.0	100.0 to 692.0
mbar	available upon request please contact us	0.25 to 1.25	1.25 to 4.98	4.98 to 37.37	37.37 to 149.3	149.3 to 248.8	248.8 to 1723.7
psi		.004 to .018	.018 to .072	.072 to .541	.541 to 2.17	2.17 to 3.60	3.60 to 25.0
Proof Pressure		8 psi	8 psi	8 psi	15 psi	30 psi	30 psi
Tolerance		±0.1 In. H ₂ O	±0.2 In. H ₂ O	±0.5 In. H ₂ O	±10%	±10%	±10%

*Teflon only

LOW PORT OPTIONS

HIGH PORT OPTIONS

1		2		1		2		3	
	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		Smooth Port .156" diameter for 1/8" ID tubing		Smooth Port .187" diameter for 5/32" ID tubing		Smooth Port .250" diameter for 7/32" ID tubing
3		4				4		5	
	No Port (.060" vent hole) w/mtg. lugs		No Port (.060" vent hole) w/o mtg. lugs				1/8" NPT Port		Barbed Port for 3/16" ID tubing
5		6				6		7	
	Barbed Port for 3/16" ID tubing w/mtg. lugs		Barbed Port for 3/16" ID tubing w/o mtg. lugs				No Port (.060" vent hole)		Flow-Thru Barbed Port for 1/8" ID tubing
7		8		Diaphragm Options 1 Polyurethane (standard) 2 Teflon (optional)		8		9	
	Barbed Port for 1/8" ID tubing w/mtg. lugs		Barbed Port for 1/8" ID tubing w/o mtg. lugs				Barbed Port for 1/8" ID tubing		1/4" Port for Quick Connect Fitting
								Three Digit Set Point Option Number	

Model Design Guide

For building standard model order number

PSF102 Series Number

Low Port Option Number

High Port Option Number

Diaphragm Option Number

7

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