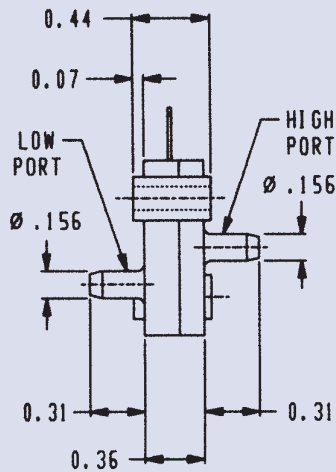
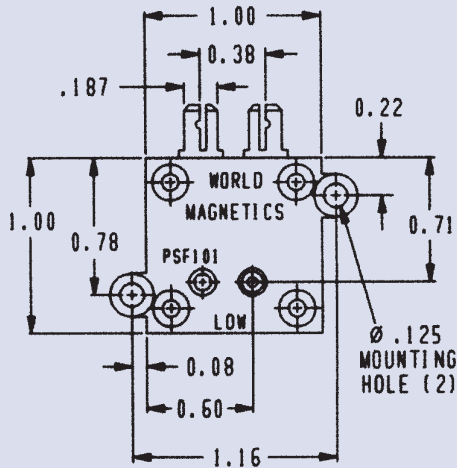


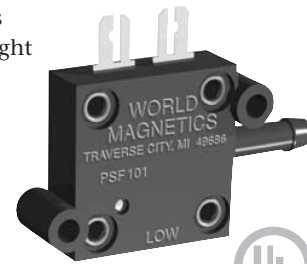
# WORLD MAGNETICS ULTRA SENSITIVE PRESSURE SWITCHES

## PSF101 Series *for sensing pressure, vacuum & differential pressure*



### FEATURES

- Gold inlay contacts
- Small size, lightweight
- Fast response
- Variety of options for ports and mountings



### SPECIFICATIONS

MECHANICAL	
Standard Tolerance	±20% Tighter tolerances available
Switch Type	SPST normally open, normally closed consult factory
Switching Medium	Air; compatible fluids on "High" side
Mechanical Life	More than 20 million cycles
Proof Pressure	8 PSI for units where set point is 3.0" H <sub>2</sub> O or less 15 PSI for units where set point is greater than 3.0" H <sub>2</sub> O
Weight	Less than 10 grams
Operating Temp.	+40°F to +150°F (standard) -46°F to +205°F (consult factory)
PHYSICAL	
Mounting	Use #4 screws thru mounting lugs or #2 screws thru eyelets
Case Material	Polycarbonate standard (other materials available upon request)
Contact Material	18K Gold inlay
Diaphragm Material	Polyurethane standard (Teflon® optional)
Electrical Connections	Terminals - .187"x .020" tab-type (bifurcated), for use with quick disconnects (ref. AMP 2-520182-2 or equivalent) .020"x .060" PCB terminals available upon request
Pressure Ports	Refer to DesignFLEX™ chart for standard options
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 current capabilities, refer to our PSF103 or PSF109 DesignFLEX™ series.



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# WORLD MAGNETICS ULTRA SENSITIVE PRESSURE SWITCHES

## PSF101 Series *for sensing pressure, vacuum & differential pressure*

**DESIGNFLEX™ OPTIONS** With World Magnetics' exclusive DesignFLEX™ feature, you can choose from these available options to custom-design a pressure switch to suit your needs.

### Low Port/Housing Options

**1** Smooth Port  
.156" Diameter  
for 1/8" ID Tubing  
w/Mtg. Lugs

**2** Smooth Port  
.156" Diameter  
for 1/8" ID Tubing  
w/o Mtg. Lugs

**3** Smooth Port  
.250" Diameter  
for 7/32" ID Tubing  
w/Mtg. Lugs

**4** Smooth Port  
.250" Diameter  
for 7/32" ID Tubing  
w/o Mtg. Lugs

**5** Barbed Port  
for 3/16" ID Tubing  
w/Mtg. Lugs

**6** Barbed Port  
for 3/16" ID Tubing  
w/o Mtg. Lugs

**7** No Port  
(.060" Vent Hole)  
w/Mtg. Lugs

**8** No Port  
(.060" Vent Hole)  
w/o Mtg. Lugs

**9** Barbed Port  
for 1/8" ID Tubing  
w/Mtg. Lugs

**0** Barbed Port  
for 1/8" ID Tubing  
w/o Mtg. Lugs

### High Port/Cover Options

**1** Smooth Port  
.156" Diameter  
for 1/8" ID Tubing

**2** Smooth Port  
.187" Diameter  
for 5/32" ID Tubing

**3** Smooth Port  
.250" Diameter  
for 7/32" ID Tubing

**4** 1/8" NPT Port

**5** Barbed Port  
for 3/16" ID Tubing

**6** No Port  
(.060" Vent Hole)

**7** Flow-Thru Barbed Port  
for 1/8" ID Tubing

**8** Barbed Port  
for 1/8" ID Tubing

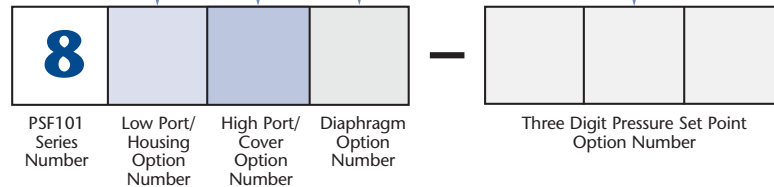
### Pressure Set Point Options

For higher Pressure Set Point, consult factory.

Option No.	In. H <sub>2</sub> O	mbar	PSI
<b>005</b>	.1 - .5	.25 - 1.25	.004 - .018
<b>010</b>	1.0	2.49	.036
<b>015</b>	1.5	3.73	.054
<b>020</b>	2.0	4.97	.072
<b>030</b>	3.0	7.46	.108
<b>040</b>	4.0	9.95	.144
<b>060</b>	6.0	14.92	.217
<b>080</b>	8.0	19.89	.289
<b>100</b>	10.0	24.86	.361
<b>120</b>	12.0	29.84	.433
<b>150</b>	15.0	37.30	.541
<b>200</b>	20.0	49.73	.722
<b>300</b>	30.0	74.59	1.083
<b>400</b>	40.0	99.46	1.444
<b>500</b>	50.0	124.32	1.804

### Diaphragm Options

- 1** Polyurethane (standard)
- 2** Teflon (optional)



### DESIGN GUIDE

Choose one option number from each of the above categories and arrange in the sequence shown here.

### Example:

**8111-020** = PSF101 Series ultra sensitive pressure switch with • Low Port/Housing, .156" Diameter, Smooth Port with Mounting Lugs • High Port/Cover, .156" Diameter, Smooth Port • Standard Polyurethane Diaphragm • Pressure Set Point is factory-set at 2" H<sub>2</sub>O



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