

# Pressure Sensors

## PSF102 Series

multicomp<sup>PRO</sup>

RoHS  
Compliant



### Features:

- Field adjustable set point ranges — from 0.03" H<sub>2</sub>O 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
Switch Type	SPST (single pole / single throw) normally open normally closed option
Switching Medium	Air; compatible fluids on “High” port side
Mechanical Life	More than 20 million cycles
Max. Operating Pressure	Varies by option — see Set Point Options
Operating Temperature	+40°F to +150°F (standard)   -46°F to +205°F +50° - 86°F (700 range)

#### Physical

Case Material	Polycarbonate (optional: Lexan 141, Ryton, Ultem, Noryl)
Porting Options	Many standard ports — see Low Port / High Port Options
Diaphragm Material	Polyurethane / PTFE (other material options available)
Contact Points	Gold
Electrical Connections	Terminals – 0.187" × 0.020" spade (recessed) for use with quick disconnects uninsulated (ref. AMP Faston, #8-640917-1, 187 Series) (PCB terminals available)
Mounting	#4 Screws through mounting lugs; #2 Screws through eyelets; mounting clip available
Weight	Less than 10 grams

#### Electrical

Current Rating	Up to 40mA resistive
Operating Voltage	AC/DC – 30V or less with resistive load; 120V AC neon lamp load

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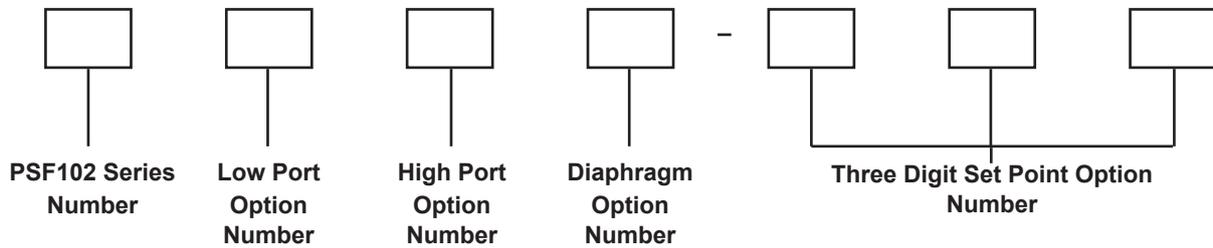
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### Part Number Explanation:



### Low Port Options:

<b>1</b>		<b>2</b>		<b>3</b>		<b>4</b>	
	Smooth Port 0.156" diameter for 1/8" ID tubing w/mtg. lugs		Smooth Port 0.156" diameter for 1/8" ID tubing w/o mtg. lugs		No Port (0.060" vent hole) w/mtg. lugs		No Port (0.060" vent hole) w/o mtg. lugs
<b>5</b>		<b>6</b>		<b>7</b>		<b>8</b>	
	Barbed Port for 3/16" ID tubing w/mtg. lugs		Barbed Port for 3/16" ID tubing w/o mtg. lugs		Barbed Port for 1/8" ID tubing w/mtg. lugs		Barbed Port for 1/8" ID tubing w/o mtg. lugs

### High Port Options:

<b>1</b>		<b>2</b>		<b>3</b>		<b>4</b>	
	Smooth Port 0.156" diameter for 1/8" ID tubing		Smooth Port 0.187" diameter for 5/32" ID tubing		Smooth Port 0.25" diameter for 7/32" ID tubing		1/8" NPT Port

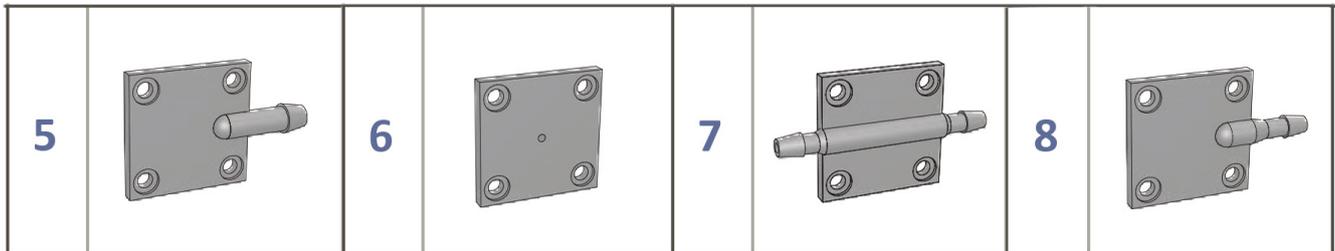
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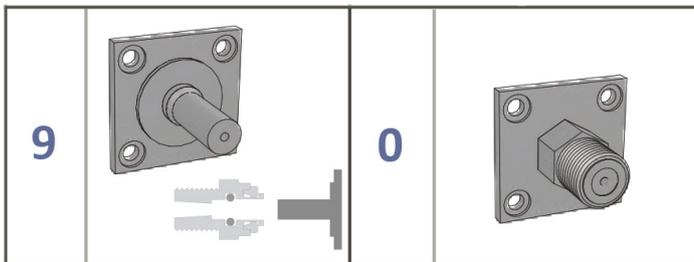


5 Barbed Port for 3/16" ID tubing

6 No Port (0.060" vent hole)

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

8 Barbed Port for 1/8" ID tubing



9 1/4" Port for Quick Connect Fitting

0 M8 x 1.25 Port

### Diaphragm Options:

1. Polyurethane (standard)
2. PTFE (optional)

### Set Point Options:

Characteristics	700	710	711	712	713	723	714
In. H <sub>2</sub> O	0.03 to 0.1	0.1 to 0.5	0.5 to 2	2 to 15	15 to 60	60 to 100	100 to 692
mbar	0.07 to 0.25	0.25 to 1.25	1.25 to 4.98	4.98 to 37.36	37.36 to 149.5	149.5 to 249	249 to 1723.5
psi	0.001 to 0.004	0.004 to 0.018	0.018 to 0.072	0.072 to 0.542	0.542 to 2.17	2.17 to 3.61	3.61 to 25
Max. Operating Pressure	2psi	4psi	8psi	8psi	15psi	30psi	30psi
Tolerance	±0.03" H <sub>2</sub> O	±0.1" H <sub>2</sub> O	±0.2" H <sub>2</sub> O	±0.5" H <sub>2</sub> O	±10%	±10%	±10%
Diaphragm Material	PUR only	PTFE only	PUR or PTFE	PUR or PTFE	PUR or PTFE	PUR or PTFE	PUR or PTFE

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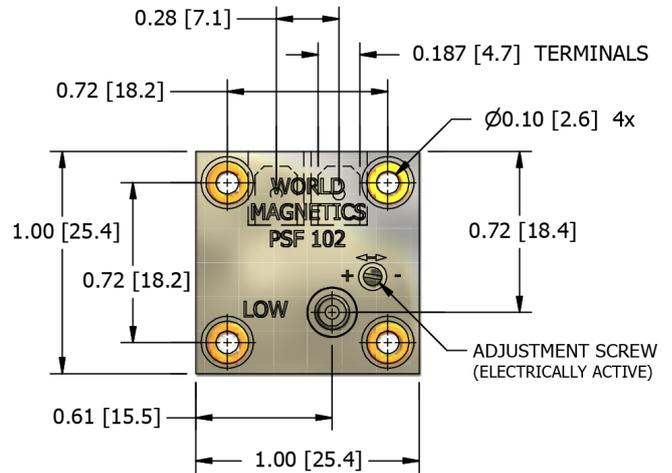
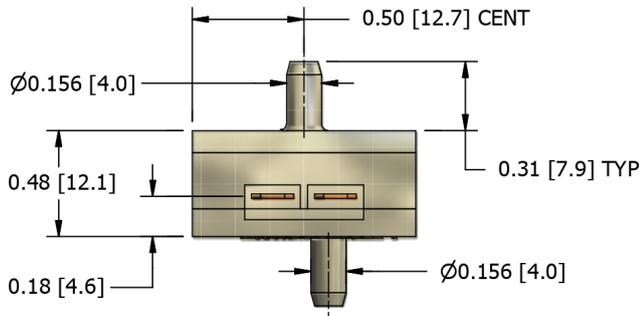
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**Diagram:**



Dimensions : Inches (Millimetres)

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