



E41523

Made in USA

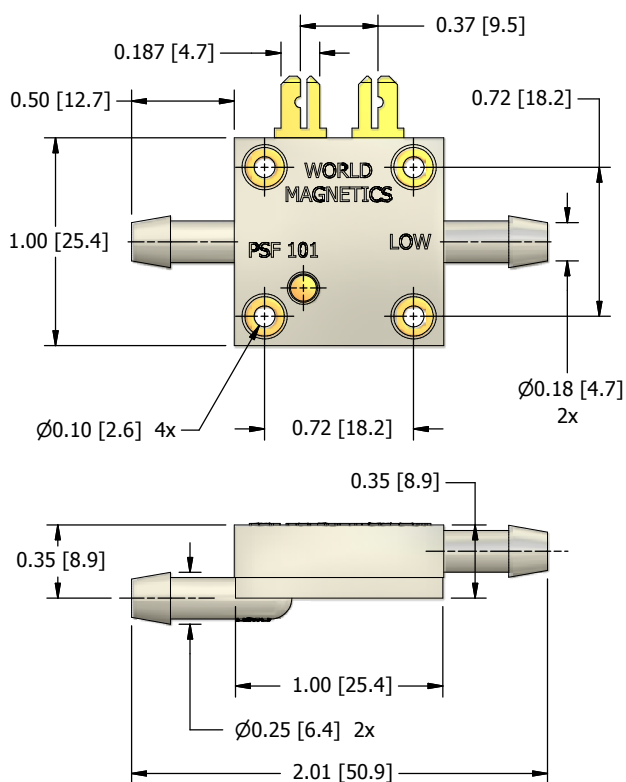
RoHS

## FEATURES / BENEFITS

- Many standard port and mounting options
- Custom design and engineering available
- Miniature size, lightweight, low cost
- Quick response time
- Dependable long life (20+ million cycles)
- Gold contact points
- PCB terminals available
- Factory set, tamper proof



MODEL 865X-XXX SHOWN



## SPECIFICATIONS

### MECHANICAL

Standard Tolerance	±20% (Tighter tolerances available)
Switch Type	SPST normally open
Switching Medium	Air; compatible fluids on "High" port side
Mechanical Life	More than 20 million cycles
Maximum Operating Pressure	8psi: for units where set point is 3.0" H <sub>2</sub> O or less 15psi: for units where set point is greater than 3.0" H <sub>2</sub> O 8psi: for units with Teflon® diaphragm
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®)
Porting Options	Many standard ports — see Low Port / High Port Options overleaf
Diaphragm Material	Polyurethane / Teflon® (other material options available)
Contact Points	Gold
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)
Mounting	#4 Screws through mounting lugs; #2 Screws through eyelets; mounting clip available for specific port arrangement only
Weight	Less than 10 grams

### ELECTRICAL

Current Rating	Up to 40mA resistive
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.



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 PSF101 options as shown below or contact our vertically integrated in-house design and engineering team for special features and unique application needs. Sample switch available by request.

**SET POINT OPTIONS**

	005	010	015	020	030	040	060	080	100	120	150	200	300	400	500
In. H <sub>2</sub> O	0.1 - 0.5	1.0	1.5	2.0	3.0	4.0	6.0	8.0	10.0	12.0	15.0	20.0	30.0	40.0	50.0
mbar	0.25 - 1.25	2.49	3.73	4.98	7.47	9.96	14.95	19.92	24.91	29.91	37.36	49.76	74.73	99.63	124.59
psi	0.004 - 0.018	0.036	0.054	0.072	0.108	0.144	0.217	0.289	0.361	0.433	0.541	0.722	1.083	1.444	1.804

**LOW PORT OPTIONS**
**HIGH PORT OPTIONS**

<b>1</b>		<b>2</b>		<b>1</b>		<b>2</b>		<b>3</b>	
<b>3</b>		<b>4</b>		<b>5</b>		<b>4</b>		<b>5</b>	
<b>6</b>		<b>7</b>		<b>8</b>		<b>6</b>		<b>7</b>	
<b>9</b>		<b>0</b>		<b>Diaphragm Options</b> <b>1</b> Polyurethane (standard) <b>2</b> Teflon (optional)		<b>8</b>		<b>9</b>	

**Model Design Guide**

For building standard model order number

PSF101 Series Number    Low Port Option Number    High Port Option Number    Diaphragm Option Number    Three Digit Set Point Option Number

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