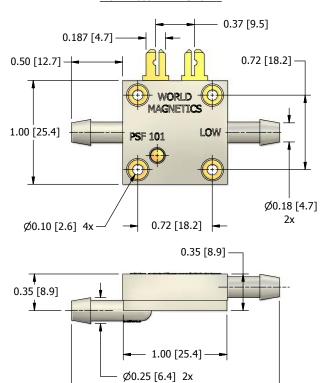
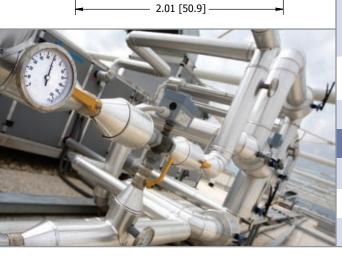




## MODEL 865X-XXX SHOWN





## 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



## 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> 0 or less 15psi: for units where set point is greater than 3.0" H <sub>2</sub> 0 8psi: for units with Teflon <sup>®</sup> 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	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.

SET POINT OPTIONS

World Magnetics' exclusive DesignFlex<sup>™</sup> 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.

		005	010	015	020	030	040	060	080	100	120	150	200	300	400	500		
	In. H <sub>2</sub> 0	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 P	ORT OP	TIO	N S						HIG	н ро	RT O	PTIO	N S				
	1	L OSO			2 6 6			1			2			3	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	MA						5			4			5	5			
		Port .250" diamet D tubing w/mtg.		Smooth Port .250" diameter for 7/32" ID tubing w/o mtg. lugs			s for 3,	Barbed Port for 3/16" ID tubing w/mtg. lugs			1/8" NPT Port				Barbed Port for 3/16" ID tubing			
	6			7			8				6	0	• •	7				
		Barbed Port tubing w/o mtg.	lugs	No Port (.060" vent hole) w/mtg. lugs		(.060	No Port (.060" vent hole) w/o mtg. lugs			No Port (.060" vent hole)				Flow-Thru Barbed Port for 3/16" ID tubing				
	9 Barbed Port			O Barbed Port			1 F 2	Diaphragm Options  1 Polyurethane (standard)  2 Teflon (optional)			8	Barbed Po		9	1/-	4" Port		
	M o d e l	tubing w/mtg. I	ugs	for 1/8" ID tubing w/o mtg. lugs  PSF101 Series Low Port High Port Diaphragr Number Option Number Option Number Option Number														