

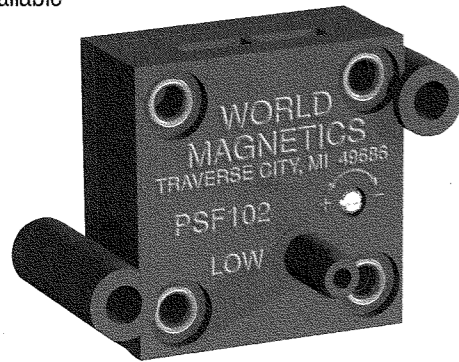
ULTRA SENSITIVE PRESSURE SWITCHES **DesignFLEX™**

PSF102 SERIES:

For sensing pressure • vacuum • differential pressure

FEATURES

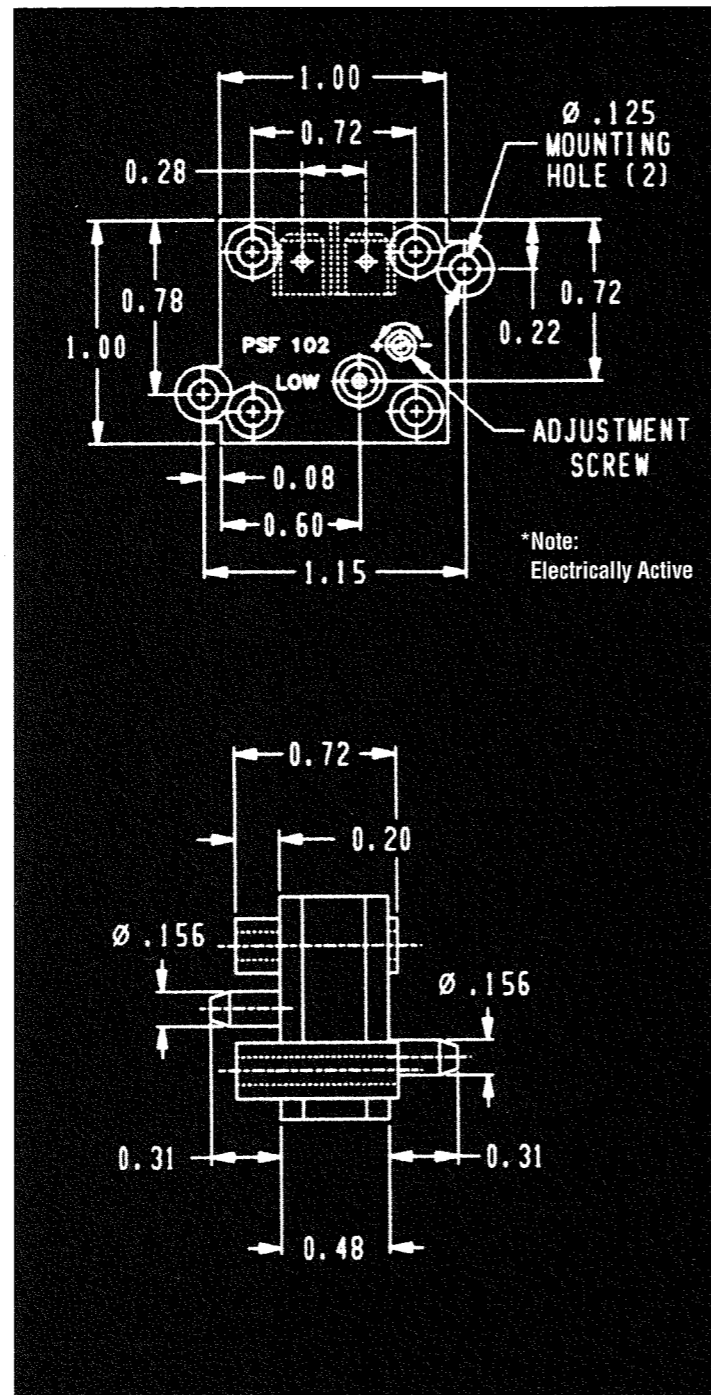
- Field adjustable set point –high resolution/high accuracy field adjustment mechanism
- Adjustable set points from 0.1" H₂O to 30 psi
- Gold inlay contacts
- Variety of options for ports and mounting
- Small size and lightweight
- PCB terminals available



SPECIFICATIONS

MECHANICAL	
Switch Type	SPST normally open
Switching Medium	Air; compatible fluids on "High" side
Mechanical Life	More than 20 million cycles
Proof Pressure	See chart
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 Points	Gold
Diaphragm Material	Polyurethane standard (Teflon® optional)
Electrical Connections	Terminals – .187"x.020" spade (recessed) for use with quick disconnects uninsulated (ref. AMP Faston, 187 Series) PCB terminals available
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.



DesignFLEX™ ULTRA SENSITIVE PRESSURE SWITCHES

PSF102 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

- 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
- No Port (.060" Vent Hole) w/ Mtg. Lugs
- No Port (.060" Vent Hole) w/o Mtg. Lugs
- 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/COVER OPTIONS

- 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
- 1/8" NPT Port
- Barbed Port for 3/16" ID Tubing
- No Port (.060" Vent Hole)
- Flow-Thru Barbed Port for 1/8" ID Tubing
- Barbed Port for 1/8" ID Tubing

PRESSURE SET POINT OPTIONS

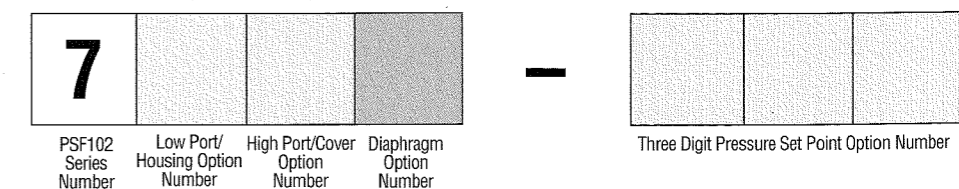
For higher Pressure Set Point, consult factory.

Option No.	In. H ₂ O	mbar	psi	Proof Pressure	Tolerance
710	0.1 to 0.5	0.25 to 1.25	.004 to .018	4 psi	±0.1 In. H ₂ O
711	0.5 to 2.0	1.25 to 4.98	.018 to .072	8 psi	±0.2 In. H ₂ O
712	2.0 to 15.0	4.98 to 37.37	.072 to .541	8 psi	±0.5 In. H ₂ O
713	15.0 to 60.0	37.37 to 149.3	.541 to 2.17	15 psi	±10%
723	60.0 to 100.0	149.3 to 248.8	2.17 to 3.60	25 psi	±10%
714	100.0 to 830.0	248.8 to 2068.0	3.60 to 30.0	30 psi	±10%

Diaphragm Options

- Polyurethane (standard)
- Teflon (optional)

Other mounting and porting options available.



Design Guide

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

EXAMPLE: **7112-710** = PSF102 Series ultra sensitive pressure switch with • Low Port/Housing, .156" Diameter, Smooth Port with Mounting Lugs • High Port/Cover, .156" Diameter, Smooth Port • Teflon Diaphragm • Adjustable Set Point Range: 0.1" to 0.5" H₂O