

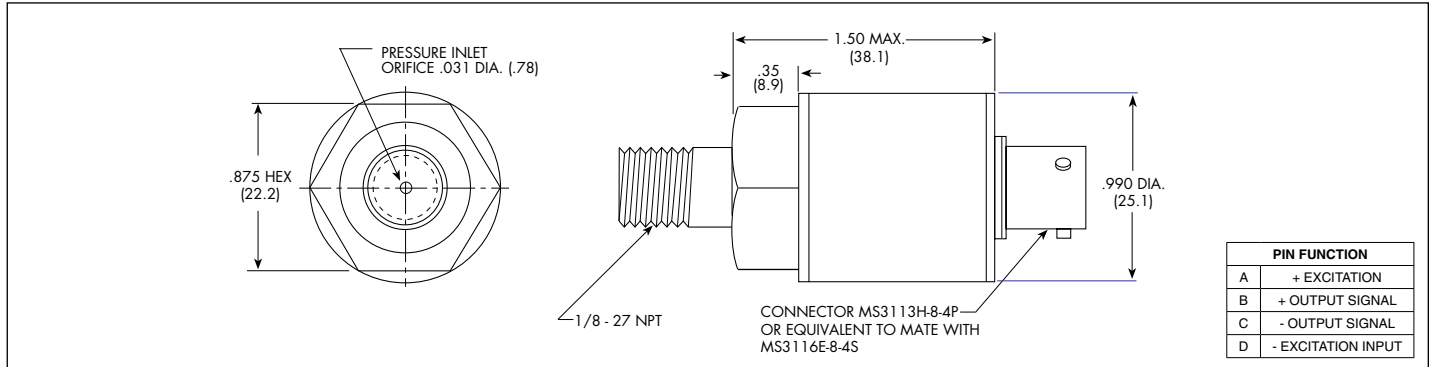
# ABSOLUTE PRESSURE TRANSDUCER

## SPT-1000 SERIES

- All Stainless Steel Construction
- Hermetically Sealed
- Dielectrically Isolated
- Silicon on Silicon Sensor

**Off The Shelf - Immediate Delivery**

The SPT-1000 Series Pressure Transducer offers state of the art technology in a low cost mechanically robust package.



INPUT	100	200	300	2500 PSI
Pressure Range				
Operational Mode	Absolute			
Over Pressure	2 Times Rated Pressure			
Burst Pressure	3 Times Rated Pressure			
Pressure Media	Any Liquid or Gas Compatible With 17-4PH or 316 Stainless Steel			
Rated Electrical Excitation	12 VDC			
Input Impedance	500 Ohm (Min.)			
<b>OUTPUT</b>				
Output Impedance	2000 Ohm (Max.)			
Full Scale Output (FSO)	100 mV (Nom.)			
Residual Unbalance	± 5 mV (Typ.)			
Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.)			
Hysteresis	± 0.1% FSO (Max.)			
Repeatability	± 0.1% FSO (Max.)			
Resolution	Infinitesimal			
Insulation Resistance	50 Megohm Min. @ 50 VDC			
<b>ENVIRONMENTAL</b>				
Operating Temperature Range	0°F to +250°F (-18°C to +120°C)			
Compensated Temperature Range	80°F to +180°F (25°C to +80°C)			
Compensated Total Error Band	± 2%			
Altitude	-150 ft. to +70,000 ft. Will Not Damage Sensor			
Humidity	100% Relative Humidity			
<b>PHYSICAL</b>				
Pressure Port	1/8 - 27 NPT			
Electrical Connection	MS3113H-8-4P or Equivalent			
Weight	80 Grams Approx.			
Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon			

Note: Custom pressure ranges, accuracies and mechanical configurations available. Please consult factory for cost and availability.

Dimensions are in inches. Dimensions in parenthesis are in millimeters. [www.sensor-ic.com/](http://www.sensor-ic.com/) TEL: 0755-83376489 FAX: 0755-83376182 E-MAIL: szss20@163.com