FEATURES

- 0...5 psi to 0...500 psi gage
 -15...15 psi to -15...100 psi gage
 0...15 psi to 0...500 psi absolute
- Calibrated and temperature compensated
- · Small size
- · Field interchangeable
- Reliable semiconductor technology



Pressure inlet: all media compatible with

stainless steel 1.4401 (316)9

Housing: stainless steel, protection class

IP65, according to DIN40050 respectively NEMA4X1

SPECIFICATIONS

Maximum ratings

Supply voltage 15 V

Temperature limits

Storage -55°C to 100°C
Operating -40°C to 100°C
Compensated 0°C to 82°C

Humidity limits 0 - 98 %RH

Vibration (5 Hz to 500 Hz) 10 g_{RMS}

Mechanical shock 50 g for 11 msec

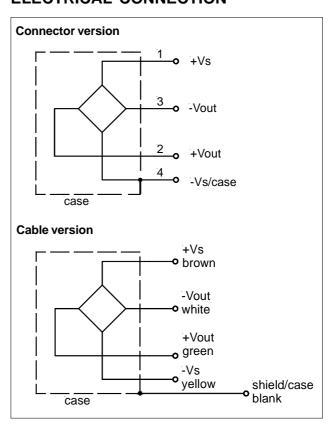
Life min. 1 million cycles

Insulation resistance at 50 V_{nc} min. 100 $M\Omega$



Scale: — 1 cm — 1 inch

ELECTRICAL CONNECTION



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PS2000 Series

OEM silicon stainless steel pressure sensor

PRESSURE RANGE SPECIFICATIONS

Part no.	Pressure range	Proof pressure ²	Burst pressure ³	
PS2005G	0 5 psig	15 psig	25 psig	
PS2010G	0 10 psig	30 psig	45 psig	
PS2015(A,G)	0 15 psi	45 psi 75 psig		
PS2015V	-15 15 psig	45 psig 75 psig		
PS2030(A,G)	0 30 psi	90 psi	150 psi	
PS2030V	-15 30 psig	90 psig	150 psig	
PS2050(A,G)	0 50 psi	150 psi	250 psi	
PS2100(A,G)	0 100 psi	300 psi	300 psi	
PS2100V	-15 100 psig	300 psig	300 psig	
PS2200(A,G)	0 200 psi	600 psi	1000 psi	
PS2300(A,G)	0 300 psi	900 psi	1500 psi	
PS2500(A,G)	0 500 psi	1200 psi 2400 psi		

PERFORMANCE CHARACTERISTICS unless otherwise noted, $V_S = 10,00 \text{ V}$, $t_{amb} = 25 ^{\circ}\text{C}$

Character	Min.	Тур.	Max.	Unit		
Zero pressure offset			-2	0	2	
Full scale span⁴	PS2005G all other devices		48 98	50 100	52 102	mV
Non-linearity⁵				±0.1	±0.3	
Pressure hysteresis⁵		±0.015	±0.030			
Thermal effects (0°C to 82°C) ⁶	PS2005G	Offset Span			±2.0 ±2.0	
	all other devices	Offset Span		±0.5 ±0.5	±1.0 ±1.0	%FSO
Thermal hysteresis (0°C to 82°C)		±0.1	±0.3			
Repeatability				±0.010	±0.030	
Long term stability of offset and span ⁷				±0.1	±0.3	
Response time (10 % to 90 %)8				0.1		ms
Input impedance			8.0	25	50	1.0
Output impedance			3.0	4.5	6.0	kΩ
Common mode output voltage					5.0	V

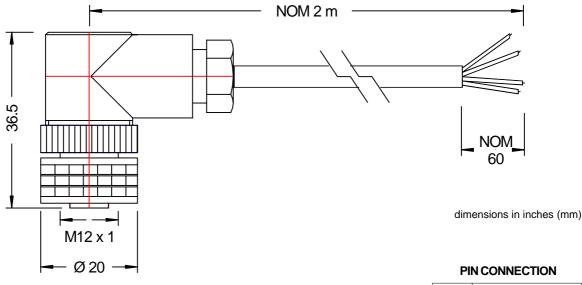
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Specification notes:

- 1. IP65 (NEMA4X) protection is given when the connector is locked. For proper function the gage port is vented to the atmosphere through the connector/cable assembly. Thus the cable end must have access to the ambient pressure.
- 2. The maximum pressure that can be applied without changing the transducer's performance or accuracy.
- 3. The maximum pressure that can be applied to a transducer without rupture of either the sensing element or transducer case.
- 4. Span is the algebraic difference between the output voltage at full scale pressure and the output at zero pressure. Span is ratiometric to the supply voltage
- 5. Linearity is based on **B**est fit **S**traight **L**ine. Hysteresis is the maximum output difference at any point within the operating pressure range for increasing and decreasing pressure.
- 6. Maximum error band of the offset voltage or span over the compensated temperature range, relative to the 25°C reading.
- 7. Long term stability over a one year period.
- 8. Response time for step change from the zero pressure to the full scale pressure.
- 9. Other materials on special request. When using devices with optional nickel plated fittings, consider the media compatibility of the fittings also.

RECOMMENDED CABLE / CONNECTOR ACCESSORY (Included in delivery!)



for additional cable/connector assemblies (for connector version PS...GA) use order number ZK000106, other cable length on special request

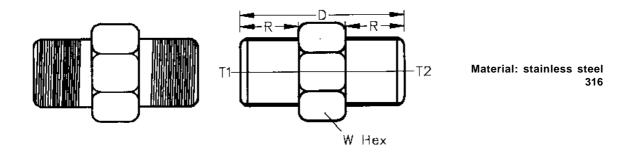
Flying lead end			
brown			
green			
white			
yellow			
shield			

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OPTIONAL PIPE FITTING DRAWINGS

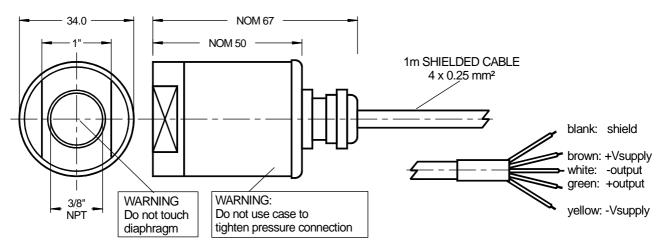
	Thr Male	ead Male	w		D		₹	Maximum working
Part No.	T1	T2	Hex	in.	mm.	in.	mm.	pressure (psig)
SFIT62 SFIT64 SFIT68	3/8 NPT 3/8 NPT 3/8 NPT	1/8 NPT 1/4 NPT 1/8 BSP	3/4 3/4 3/4	1.27 1.45 1.45	32.3 37.0 37.0	0.56/0.38 0.56 0.56	14.2/9.7 14.2 14.2	7200 7200 7200



OUTLINE DRAWING

Cable version

PS...G**C**



mass: typ. 190 g dimensions in inches (mm)

wire color	connection		
blank	shield/case		
brown	+Vs		
white	-Vout		
green	+Vout		
yellow	-Vs		

ELECTRICAL CONNECTION

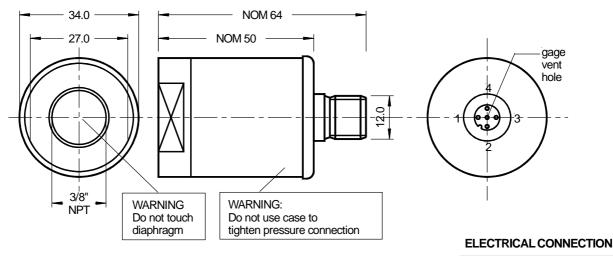
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OUTLINE DRAWING

Connector version

PS...GA

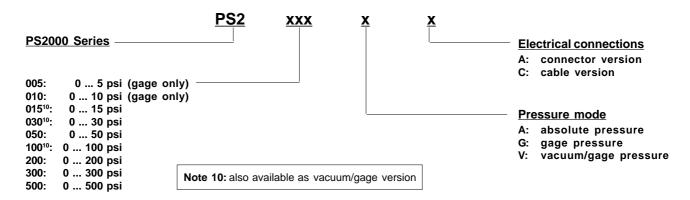


mass: typ. 190 g

dimensions in inches (mm)

Pin	connection		
1	+Vs		
2	+Vout		
3	-Vout		
4	-Vs/case		

ORDERING INFORMATION



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