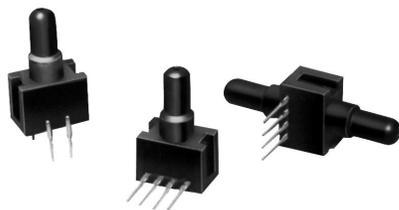


Pressure Sensors

Gage and Differential/Unamplified-Compensated

26PC Series

Temperature Compensated Sensors



FEATURES

- Lowest priced sensor with temperature compensation and calibration
- Variety of gage pressure port configurations - easily and quickly modified for your special needs
- Operable after exposure to frozen conditions
- Choice of termination for gage sensors
- Calibrated Null and Span
- Temperature compensated for Span over 0 to 50°C
- Provides interchangeability
- Can be used to measure vacuum or positive pressure
- Ideal for wet/wet differential applications

26PC SERIES PERFORMANCE CHARACTERISTICS at 10.0 ±0.01 VDC Excitation, 25°C

	Min.	Typ.	Max.	Units
Excitation	---	10	16	VDC
Repeatability & Hysteresis	---	±0.20	---	%Span
Response Time	---	---	1.0	msec
Input Resistance	5.5 K	7.5 K	11.5 K	ohms
Output Resistance	1.5 K	2.5 K	3.0 K	ohms
Stability over One Year	---	±0.5	---	%Span
Weight	---	2	---	grams

Total error calculation, see page 105.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40° to 85°C (-40° to +185°F)
Storage Temperature	-55° to +100°C (-67° to +212°F)
Compensated Temperature	0° to +50°C (32° to +122°F)
Shock	Qualification tested to 150 g
Vibration	MIL-STD-202. Method 213 (150g halfsine, 11 msec)
Media (P1 & P2)	Limited only to those media which will not attack polyetherimide, silicon, fluorosilicone, silicone, EPDM, and neoprene seals.

26PC SERIES ORDER GUIDE

Catalog Listing	Pressure Range (psi)	Linearity (% span)		Null Shift (mV)		Null Offset (mV)			Span Shift (% span)		Span (mV)			Sensitivity mV/psi		Over-pressure psi
		Typ.	Max.	Typ.	Max.	Min.	Typ.	Max.	Typ.	Max.	Min.	Typ.	Max.	Typ.	Max.	
26PCA TYPE	1	0.25	0.5	±0.5	±1.0	-1.5	0	+1.5	±1.0	±2.0	14.7	16.7	18.7	16.7	20	
26PCB TYPE	5	0.4	0.5	±0.5	±1.0	-1.5	0	+1.5	±1.0	±1.5	47	50	53	10.0	20	
26PCC TYPE	15	0.25	0.5	±0.5	±1.0	-1.5	0	+1.5	±0.75	±1.5	97	100	103	6.67	45	
26PCD TYPE	30	0.1	0.2	±0.75	±1.5	-1.5	0	+1.5	±0.75	±1.5	97	100	103	3.33	60	
26PCF TYPE	100	0.1	0.2	±1.0	±2.0	-2.0	0	+2.0	±0.5	±1.5	95	100	105	1.0	200	
26PCJ TYPE	38*	0.1	0.5	±0.7	±1.5	-1.5	0	+1.5	±1.0	±1.5	37.5	39.5	41.5	2.63	60	
26PCK TYPE	38*	0.1	0.5	±0.7	±1.5	-1.5	0	+1.5	±1.0	±1.5	37.5	39.5	41.5	2.63	60	

*Accuracy specifications calculated at 15 psi.

Unamplified

Pressure Sensors

26PC Series

Gage and Differential/Unamplified-Compensated

SENSOR SELECTION GUIDE

2 Product Family	6 Circuit Type	PC Pressure Transducer	B Pressure Range	F* Type of Seal	A Type of Port	2 Termination Style	G Pressure Measurement
2 20PC family	6 Compensated Calibrated		A 1 psi B 5 psi C 15 psi D 30 psi F 100 psi J 38 psi K 38 psi (passivated**)	E EPDM F Fluorosilicone N Neoprene S Silicone	A Straight B Barbed C Luer D Modular H M5 Thread I 90° Port J Needle K Reverse 90° Port L 1/4-28 UNF w/Cable Lock M 1/4 - 28 UNF w/o Cable Lock S Manifold	1 1 x 4 (.400") 2 2 x 2 6 1 x 4 (.600")	G Gage D Differential

Example: 26PCBFA2G

Compensated and calibrated 5 psi sensor with fluorosilicone seal, straight port, 2 x 2 terminals, and Gage pressure measurement.

*Other media seal materials may be available.

**P2 side of die coated for environmental and dielectric protection.

See Accessories Guide, page 27.

Not all combinations are established.
Contact 800 number before final design.

Pressure Sensors

Gage and Differential/Unamplified

22/24/26PC Series

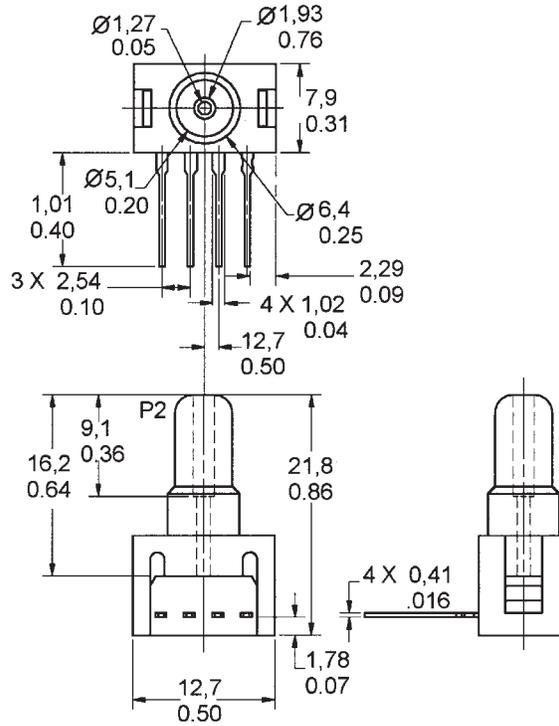
GAGE SENSOR

Pressure is applied to port P2. Port P1 vents to ambient pressure

Mounting Dimensions (for reference only)

1 x 4 Termination (Style 1), Straight Port (Style A)

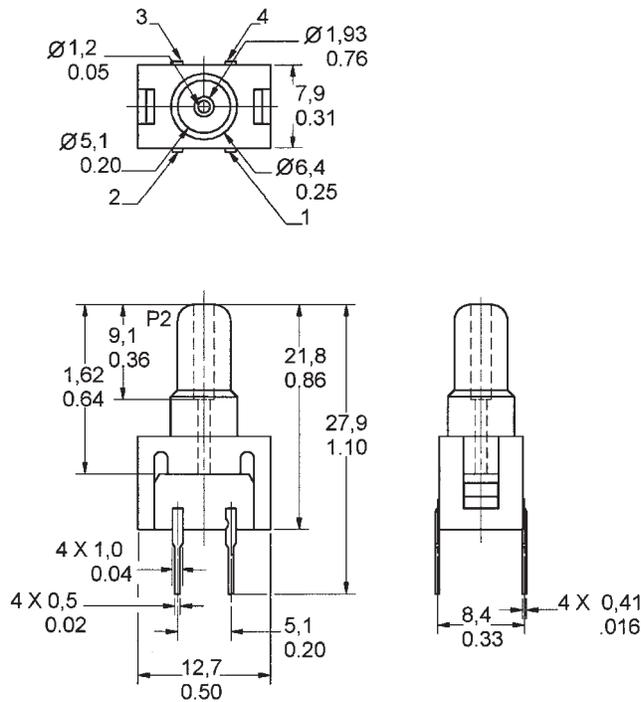
Pin 1 is notched, and is shown at the right of the package. Pin 2 is next to Pin 1, etc.



Unamplified

2 x 2 Termination (Style 2), Straight Port (Style A)

Pin 1 is notched and is shown at lower right corner. Pins 2, 3, and 4 are clockwise.



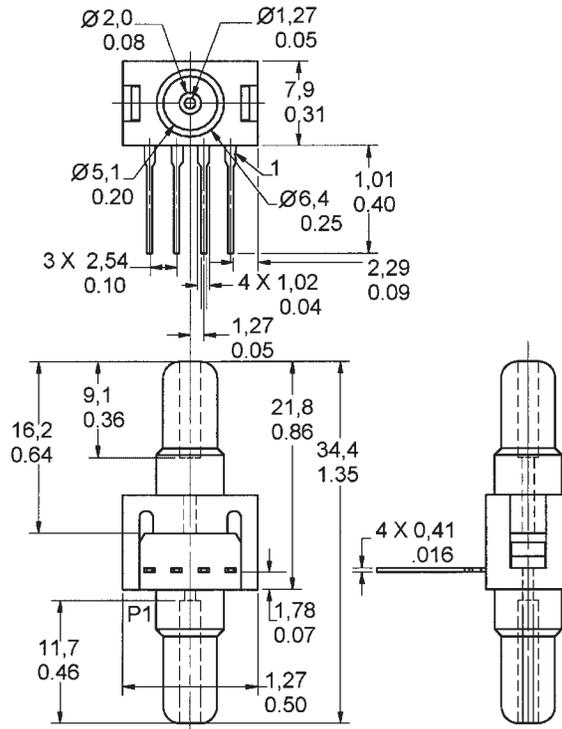
Pressure Sensors

Gage and Differential/Unamplified

22/24/26PC Series

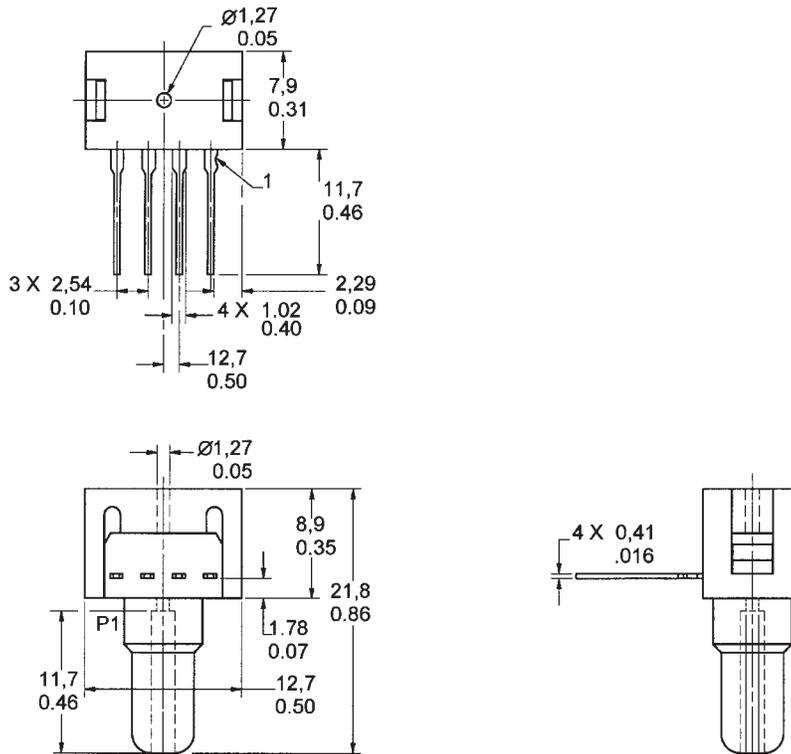
Straight Port, 1 x 4 Termination (Style 1) ONLY

Port 1 is near terminals



Absolute Sensor

1 x 4 Termination (Style 1), Port 1 is near terminals



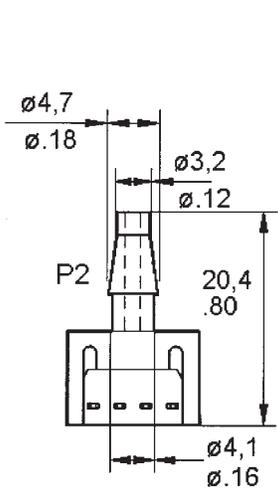
Pressure Sensors

Gage and Differential/Unamplified

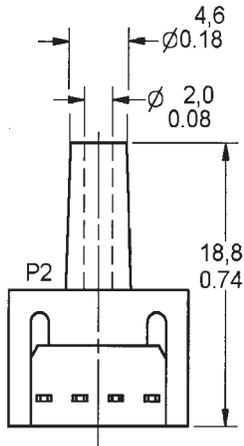
22/24/26PC Series

OTHER GAGE SENSOR PORT STYLES (2 x 2 or 1 x 4 Termination)

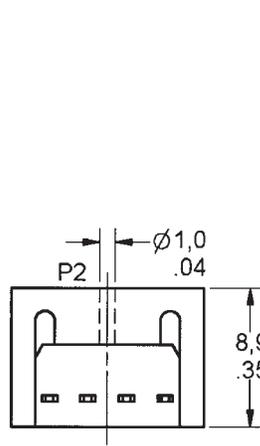
B Barbed



C Luer

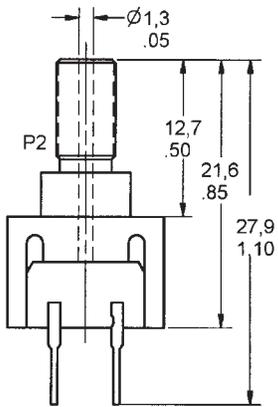


D Modular

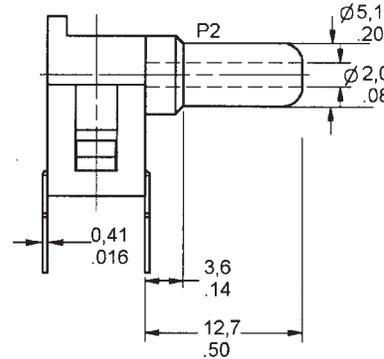


H M5 Thread

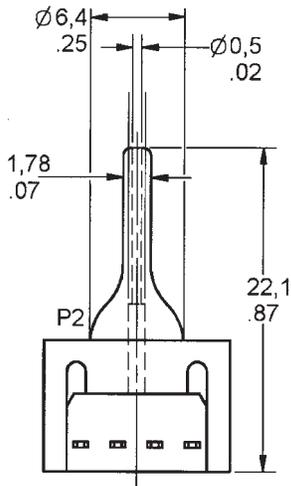
O-Ring Size 007 O-Ring Counterbore
1,02 mm (.040) deep $\pm 0,13$ (.005) x 7,6 mm (.30) $\pm 0,8$ (.003)



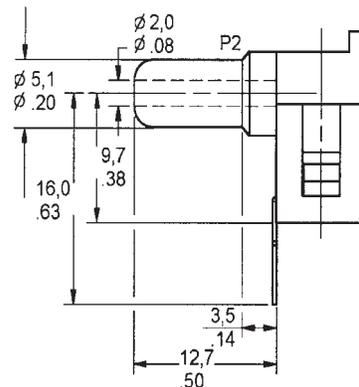
I 90°



J Needle



K Reverse 90°



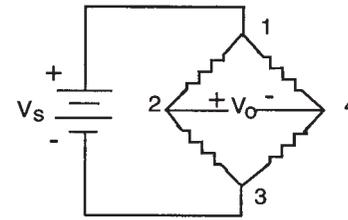
20PC SERIES CIRCUIT - NOTES

1. Circled numbers refer to Sensor Terminals (interface pins).
2. V_O increases with pressure change.
3. $V_O = V_2 - V_4$
4. Pin 1 designated with a notch.

Pin Designation

- Pin 1 = V_S (+)
- Pin 2 = Output (+)
- Pin 3 = Ground (-)
- Pin 4 = Output (-)

EXCITATION



Unamplified

Pressure Sensors

Gage and Differential/Unamplified

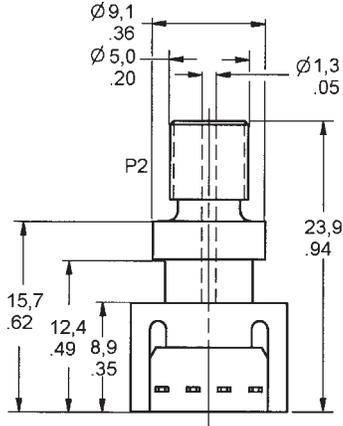
22/24/26PC Series

OTHER GAGE SENSOR PORT STYLES (2 x 2 or 1 x 4 Termination)

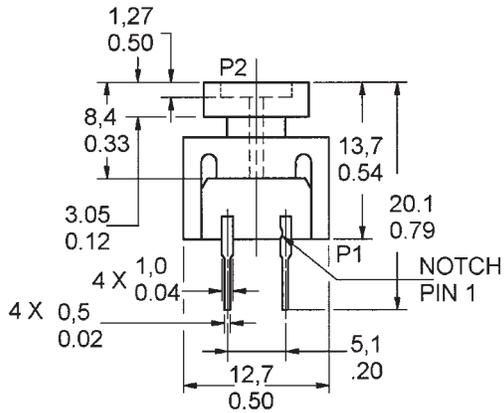
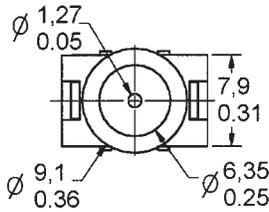
M 1/4-28 UNF Thread

O-Ring Size 009 O-Ring Counterbore

1,02 mm (.040) deep $\pm 0,05$ (.002) x 9,1 mm (.360) $\pm 0,8$ (.003)



S Manifold



20PC Construction

