FEATURES

- Ranges from 4 inH₂O to 150 psi, differential, gage or absolute
- · Precision temperature compensated
- Calibrated offset and span
- · Voltage excitation
- Excellent long term stability



MEDIA COMPATIBILITY

To be used with non-corrosive, non-ionic working fluids such as clean dry air, dry gases and the like.

SPECIFICATIONS

Maximum ratings

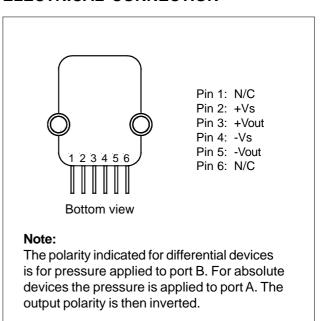
Supply voltage $V_{\rm S}$ 16 $V_{\rm DC}$ Lead temperature (soldering 2-4 sec.) 250 °C

Temperature ranges
 Compensated
 PCOH004DH 0...50 °C
 all others 0...70 °C
 Operating -25...85 °C
 Storage -40...125 °C

Humidity limits (non-condensing) 0...95 % RH

Common mode pressure 50 psig

ELECTRICAL CONNECTION



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PRESSURE SENSOR CHARACTERISTICS¹

Part no.	Operating pressure	Proof pressure ²	Burst pressure ³	Full scale span⁴		
				Min.	Тур.	Max.
PCOH004DH	0 4 inH ₂ O	3 psi	15 psi	38 mV	40 mV	42 mV
PCOP0x3DH	0 0.3 psi	5 psi	15 psi	18 mV	20 mV	22 mV
PCOP001DH	0 1 psi	5 psi	15 psi	16 mV	18 mV	20 mV
PCOP005DH	0 5 psi	10 psi	30 psi	57 mV	60 mV	63 mV
PCOP015DH	0 15 psi	60 psi	120 psi	86 mV	90 mV	94 mV
PCOP030DH	0 30 psi	90 psi	150 psi	86 mV	90 mV	94 mV
PCOP100DH	0 100 psi	200 psi	250 psi	96 mV	100 mV	104 mV
PCOP150DH	0 150 psi	200 psi	250 psi	86 mV	90 mV	94 mV
PCOP015AH	0 15 psia	60 psia	120 psia	86 mV	90 mV	94 mV
PCOP100AH	0 100 psia	200 psi	250 psi	96 mV	100 mV	104 mV

COMMON PERFORMANCE CHARACTERISTICS¹

PCOH004DH

Characteristics		Min.	Тур.	Max.	Unit
Zero pressure offset			±1.0	mV	
Combined non-linearity and hysteresis ⁵			±0.5	±1.0	%FS
Temperature effects (050 °C) ⁶	Offset			±1.0	mV
	Span			±2.0	%FS
Input resistance			5		kΩ
Output resistance			3		

All other devices

Characteristic	Min.	Тур.	Max.	Unit	
Zero pressure offset			±0.5	mV	
Combined non-linearity and hysteresis ⁵			±0.5	±1.0	%FS
Temperature effects (070 °C) ⁶	Offset		±0.2	±1.0	mV
	Span		±0.4	±2.0	%FS
Input resistance			5		kΩ
Output resistance			3		

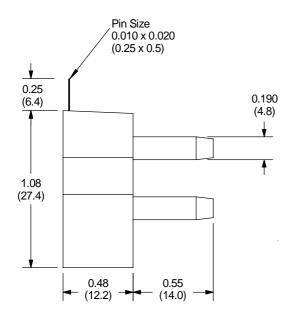
Specification notes:

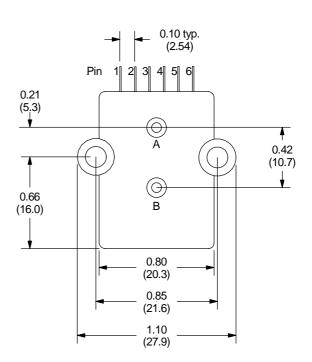
- 1. Reference conditions: unless otherwise noted, supply voltage $V_s = 12 \text{ V}$, $T_A = 25^{\circ}\text{C}$, common-mode pressure 0, pressure applied to port B. For absolute devices pressure is applied to port A and the output polarity is inversed.
- 2. Proof pressure is the maximum pressure which may be applied without causing durable shifts of the electrical parameters of the sensing element.
- 3. Burst pressure is the maximum pressure which may be applied without causing damage to the sensing element or leaks from the housing.
- **4.** Full scale span is the algebraic difference between the output voltage at full-scale pressure and the output at zero pressure. The span is ratiometric to the supply voltage.
- 5. Non-linearity refers to the Best Straight Line fit measured for offset pressure, full-scale pressure and ½ full-scale pressure.
- 6. Shifts relative to 25°C.

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PHYSICAL DIMENSIONS





dimensions in inches (mm)

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