

Triaxial accelerometer with positioning pin

993A-2

SPECIFICATIONS

Sensitivity, $\pm 10\%$, 25°C	100 mV/g
Acceleration range ¹	50 g peak
Amplitude nonlinearity	1%
Frequency response ² :	
All channels, $\pm 10\%$	2 - 2,000 Hz
Transverse sensitivity, max	5% of axial
Temperature response:	
-50°C	+10%
+120°C	-7%
Power requirement:	
Voltage source	18 - 30 VDC
Current regulating diode ³	2 - 10 mA
Electrical noise, equiv. g, nominal:	
Broadband 2.5 Hz to 25 kHz	150 μ g
Spectral 10 Hz	20 μ g/ $\sqrt{\text{Hz}}$
100 Hz	2.0 μ g/ $\sqrt{\text{Hz}}$
1,000 Hz	0.6 μ g/ $\sqrt{\text{Hz}}$
Output impedance, max	100 Ω
Bias output voltage, nominal	12 VDC
Grounding	case isolated, internally shielded
Temperature range	-50° to +120°C
Vibration limit	500 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv. g	100 μ g/gauss
Base strain sensitivity	0.0005 g/ μ strain
Weight	90 grams
Case material	hardcoated aluminum
Mounting	10-32 captive screw
Output connector (at end of cable)	PC02A-8-4P
Mating connector	R9W type (Bendix PC06W-8-4S (SR))
Recommended cabling	J9T4, 4-conductor shielded, Teflon® jacket

Notes: ¹ To minimize the possibility of signal distortion when driving long cables with high vibration signals, 24 to 30 VDC powering is recommended. The higher level constant current source should be used when driving long cables.

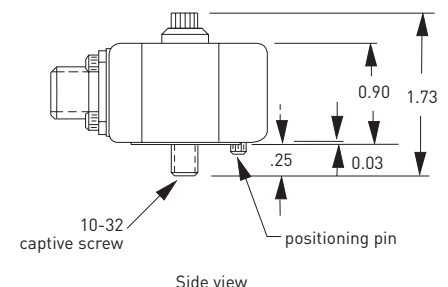
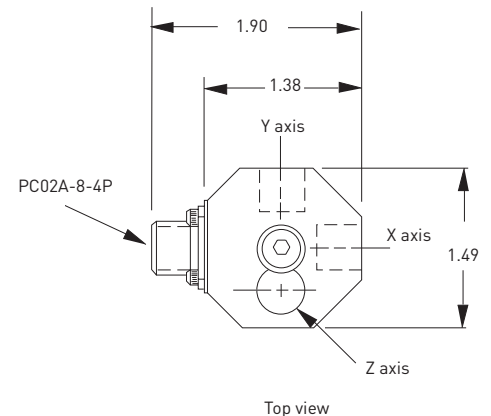
² As measured using the mounting screw.

³ A maximum current of 6 mA is recommended for operating temperatures in excess of 100°C.

Accessories supplied: 10-32 captive screw; calibration data

Key features

- Rugged design
- 3 axis simultaneous sensing for more efficient data collection
- Manufactured in ISO 9001 facility



Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

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