Triaxial accelerometer with positioning pin

993A-3

SPECIFICATIONS

Sensitivity, ±10%, 25°C		100 mV/g
Acceleration range[1]		50 g peak
Amplitude nonlinearity		1%
Frequency response[2]**:**		
	all channels, ±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 µg
Spectral	**10 Hz**	20 µg/√Hz
	100 Hz	2.0 µg/√Hz
	1,000 Hz	0.6 µg/√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		250 µg/gauss
Base strain sensitivity		0.002 g/µstrain
Weight		90 grams
Case material		hardcoated aluminum
Mounting		1/4-28 captive screw
Output connector (at end of cable)		PC02A-8-4P
Mating connector		R9W
Recommended cabling		J9T4

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

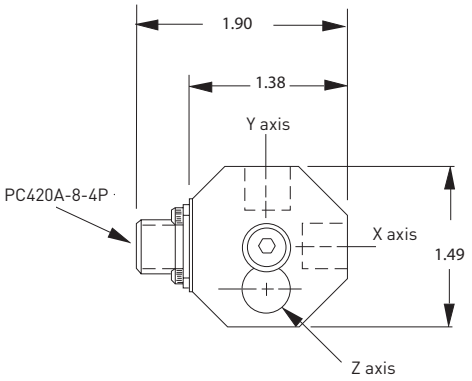
[2] As measured using the mounting screw.

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

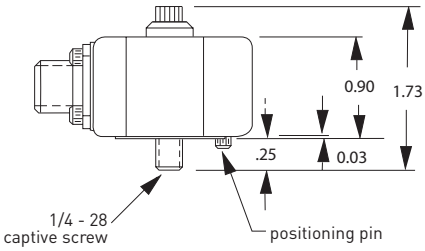
Accessories supplied: 1/4-28 captive screw; calibration data

Key features

- Triaxial measurements provide more data from a single sensor
- Manufactured in ISO 9001 facility



(top view)



(side view)

Connections	
Function	Connector pin
x	A
y	B
z	C
common	D

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

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98294 Rev.B.1 09/18

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