

# Triaxial accelerometer with positioning pin

## 993A-3

### SPECIFICATIONS

<b>Sensitivity, ±10%, 25°C</b>	100 mV/g
<b>Acceleration range<sup>1</sup></b>	50 g peak
<b>Amplitude nonlinearity</b>	1%
<b>Frequency response<sup>2</sup>:</b>	
<b>all channels, ±10%</b>	2 - 2,000 Hz
<b>Transverse sensitivity, max</b>	5% of axial
<b>Temperature response:</b>	
<b>-50°C</b>	+10%
<b>+120°C</b>	-7%
<b>Power requirement:</b>	
<b>Voltage source</b>	18 - 30 VDC
<b>Current regulating diode<sup>3</sup></b>	2 - 10 mA
<b>Electrical noise, equiv. g, nominal:</b>	
<b>Broadband 2.5 Hz to 25 kHz</b>	150 µg
<b>Spectral 10 Hz</b>	20 µg/√Hz
<b>100 Hz</b>	2.0 µg/√Hz
<b>1,000 Hz</b>	0.6 µg/√Hz
<b>Output impedance, max</b>	100 Ω
<b>Bias output voltage, nominal</b>	12 VDC
<b>Grounding</b>	case isolated, internally shielded
<b>Temperature range</b>	-50° to +120°C
<b>Vibration limit</b>	500 g peak
<b>Shock limit</b>	5,000 g peak
<b>Electromagnetic sensitivity, equiv. g</b>	250 µg/gauss
<b>Base strain sensitivity</b>	0.002 g/µstrain
<b>Weight</b>	90 grams
<b>Case material</b>	hardcoated aluminum
<b>Mounting</b>	1/4-28 captive screw
<b>Output connector (at end of cable)</b>	PC02A-8-4P
<b>Mating connector</b>	R9W
<b>Recommended cabling</b>	J9T4

**Notes:** <sup>1</sup> 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.

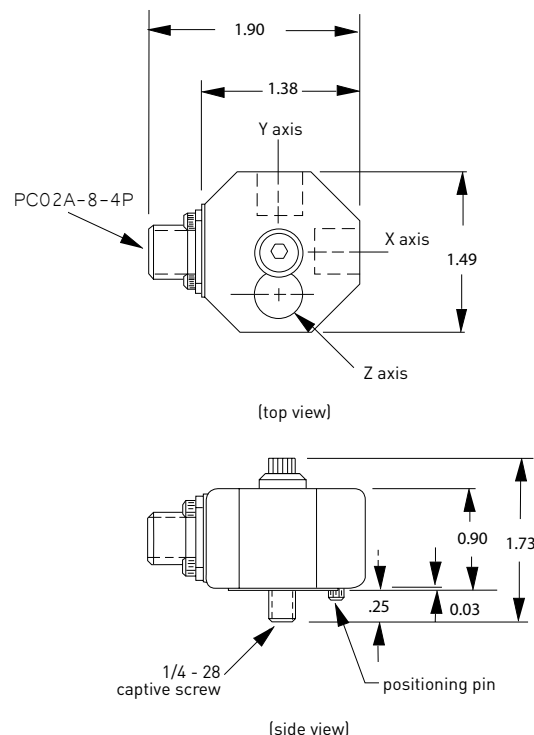
<sup>2</sup> As measured using the mounting screw.

<sup>3</sup> 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



Connections	
Function	Connector pin
Y	A
X	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.