

# Triaxial accelerometer with integral cable

## 993A-5

### SPECIFICATIONS

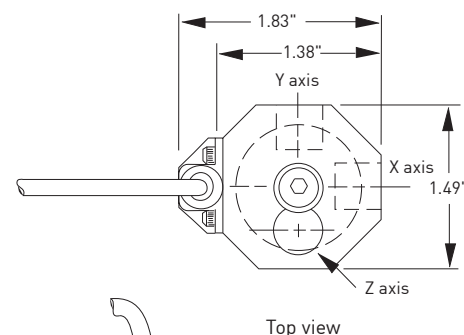
<b>Sensitivity, <math>\pm 10\%</math>, 25°C</b>		100 mV/g
<b>Acceleration range</b>		50 g peak
<b>Amplitude nonlinearity</b>		1%
<b>Frequency response:</b>		
<b>all channels, <math>\pm 10\%</math></b>		2 - 2,000 Hz
<b>Transverse sensitivity, max</b>		5% of axial
<b>Temperature response:</b>		
<b>-50°C</b>		+10%
<b>+25°C</b>		0%
<b>+80°C</b>		+3%
<b>+120°C</b>		-7%
<b>Power requirement:</b>		
<b>Voltage source</b>		18 - 30 VDC
<b>Current regulating diode</b>		2 - 10 mA
<b>Electrical noise, equiv. g:</b>		
<b>Broadband</b>	<b>2.5 Hz to 25 kHz</b>	150 $\mu$ g
<b>Spectral</b>	<b>10 Hz</b>	20 $\mu$ g/ $\sqrt{\text{Hz}}$
	<b>100 Hz</b>	2.0 $\mu$ g/ $\sqrt{\text{Hz}}$
	<b>1,000 Hz</b>	0.6 $\mu$ g/ $\sqrt{\text{Hz}}$
<b>Output impedance, max</b>		100 $\Omega$
<b>Bias output voltage</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>		100 $\mu$ g/gauss
<b>Sealing</b>		epoxy
<b>Base strain sensitivity</b>		0.002 g/ $\mu$ strain
<b>Sensing element design</b>		PZT, shear
<b>Weight</b>		90 grams
<b>Case material</b>		hardcoated aluminum
<b>Mounting</b>		10-32 captive screw
<b>Recommended cabling</b>		J98 integral cable, 6 ft.

Accessories supplied: #11085 captive screw; calibration data (level 2)

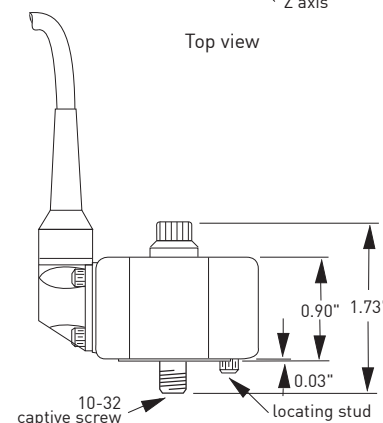


### Key features

- Measures three axes at a single mounting location for faster, more efficient data collection
- Manufactured in ISO 9001 facility



Top view



Side view



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

Connections	
Function	Cable conductor color
axis X, power/signal	green
axis Y, power/signal	red
axis Z, power/signal	white
common (all channels)	black
N/C	shield