

# General purpose triaxial accelerometer

## 993B-7-M12



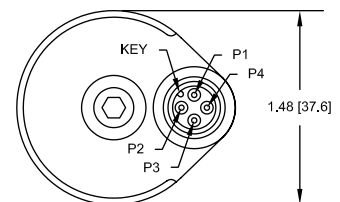
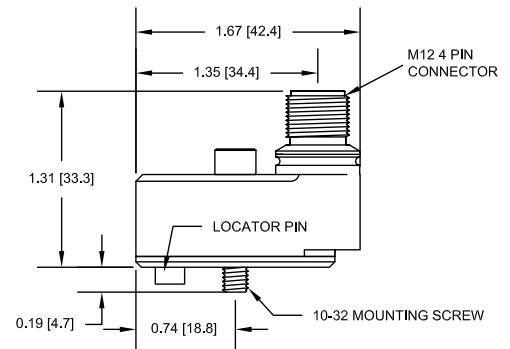
### SPECIFICATIONS

Sensitivity, $\pm 10\%$ , 25°C	100 mV/g
Acceleration range	60 g peak
Amplitude nonlinearity	1%
Frequency response <sup>1</sup> : Z axis, $\pm 3$ dB X and Y axes, $\pm 3$ dB	2 - 10,000 Hz 2 - 7,000 Hz
Resonance frequency	>35 kHz
Transverse sensitivity, max	7% of axial
Temperature response: -50°C +120°C	-12% +12%
Power requirement: Voltage source Current regulating diode	18 - 30 VDC 2 - 5 mA
Electrical noise, equiv. g, nominal: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1,000 Hz	160 $\mu$ g 10 $\mu$ g/ $\sqrt{\text{Hz}}$ 2.0 $\mu$ g/ $\sqrt{\text{Hz}}$ 1.5 $\mu$ g/ $\sqrt{\text{Hz}}$
Output impedance, max	400 $\Omega$
Bias output voltage	12 VDC
Grounding	case isolated, internally shielded
Turn-on time	<1 sec
Temperature range	-50° to +120°C
Vibration limit	500 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv. g, max	100 $\mu$ g/gauss
Sealing	hermetic
Base strain sensitivity, max	0.0005 g/ $\mu$ strain
Weight (excluding cable)	124 grams
Case material	316L stainless steel
Mounting	10-32 captive screw
Output connector	4 pin, M12 style
Mating connector	RM12S
Recommended cabling	4 conductor, shielded

Notes: <sup>1</sup> As measured using the TCC-993 mounting screw.  
Accessories supplied: Captive screw; calibration data

### Key features

- Three axis simultaneous sensing
- Certified version available for use in hazardous areas (model 993B-7-M12 [CERT])
- Manufactured in ISO 9001 facility



Connections	
Function	Connector pin
X axis, power/signal	1
Y axis, power/signal	2
Z axis, power/signal	3
common (all channels)	4
ground	shell



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