993B-7-M12
General purpose triaxial accelerometer

SPECIFICATIONS

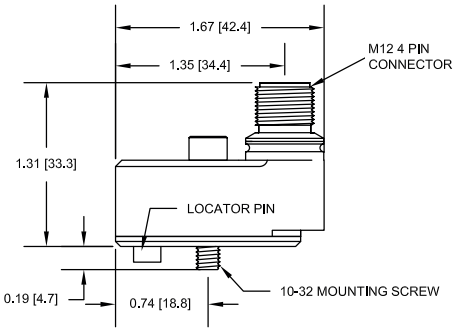
Sensitivity, ±10%, 25°C		100 mV/g
Acceleration range		60 g peak
Amplitude nonlinearity		1%
Frequency response[1]:	**Z axis, ±3 dB**	2 - 10,000 Hz
	X and Y axes, ±3 dB	2 - 7,000 Hz
Resonance frequency		>35 kHz
Transverse sensitivity, max		7% of axial
Temperature response:	**–50°C**	–12%
	+120°C	+12%
Power requirement:		
Voltage source		18 - 30 VDC
Current regulating diode		2 - 5 mA
Electrical noise, equiv. g, nominal:		
Broadband	**2.5 Hz to 25 kHz**	160 µg
Spectral	**10 Hz**	10 µg/√Hz
	100 Hz	2.0 µg/√Hz
	1,000 Hz	1.5 µg/√Hz
Output impedance, max		400 Ω
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 µg/gauss
Sealing		hermetic
Base strain sensitivity, max		0.0005 g/µstrain
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

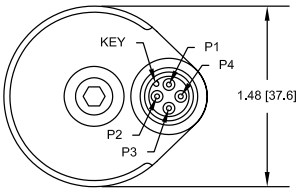
Notes: [1] As measured using the TCC-993 mounting screw.
Accessories supplied: Captive screw; calibration data

CE

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.

Version | 11.2019