

Triaxial accelerometer with TEDS

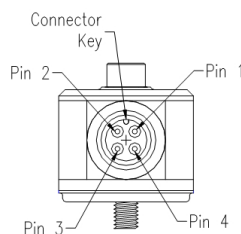
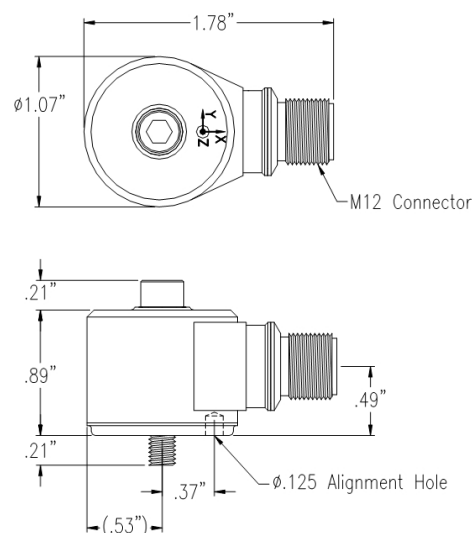
993E

SPECIFICATIONS

Sensitivity, $\pm 20\%$, 25°C	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity	1%
Frequency response:	
Z axis, ± 3 dB	2 - 7,000 Hz
X, Y axes, ± 3 dB	2 - 5,000 Hz
Transverse sensitivity, max	5% of axial
Power requirement:	
Voltage source	18 - 30 VDC
Current regulating diode	2 - 10 mA
Electrical noise, equiv. g:	
Broadband 2.5 Hz to 25 kHz	210 μg
Spectral 10 Hz	40 $\mu\text{g}/\sqrt{\text{Hz}}$
100 Hz	8 $\mu\text{g}/\sqrt{\text{Hz}}$
1,000 Hz	2 $\mu\text{g}/\sqrt{\text{Hz}}$
Output impedance, max	200 Ω
Bias output voltage	12 VDC
Grounding	case grounded
Temperature range	-50° to $+120^{\circ}\text{C}$
Vibration limit	500 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv. g	150 $\mu\text{g}/\text{gauss}$
Sealing	hermetic
Base strain sensitivity, max	0.0005 g/ μstrain
Sensing element design	PZT ceramic / shear
Weight	85 grams
Case material	stainless steel
Mounting	10-32 captive socket head screw
Output connector	4 pin, M12

Key features

- Contains transducer electronic data sheet (TEDS)
- Simultaneous 3 channel output in 3 mutually perpendicular axes
- Manufactured in ISO 9001 facility



Connections	
Function	Connector pin
axis X, power/signal/TEDS	1
axis Y, power/signal	2
axis Z, 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.