

General purpose accelerometer

787A



SPECIFICATIONS

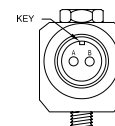
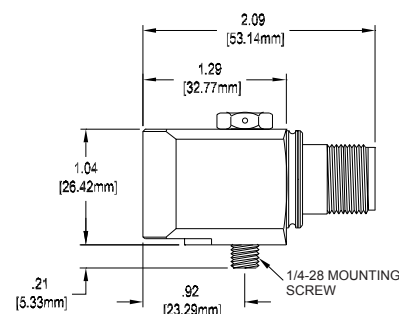
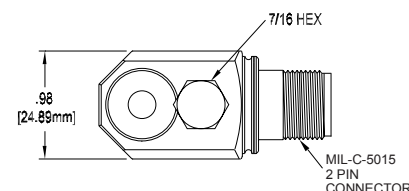
Sensitivity, $\pm 5\%$, 25°C	100 mV/g
Acceleration range, VDC > 25 V	80 g peak
Amplitude nonlinearity	1%
Frequency response:	$\pm 10\%$ 1 - 5,000 Hz ± 3 dB 0.5 - 10,000 Hz
Resonance frequency	22 kHz
Transverse sensitivity, max	5% of axial
Temperature response:	-55°C -20% +120°C +10%
Power requirement:	
Voltage source	18 - 30 VDC
Current regulating diode	2 - 10 mA
Electrical noise, equiv. g:	
Broadband 2.5 Hz to 25 kHz	700 μ g
Spectral 10 Hz	10 μ g/ $\sqrt{\text{Hz}}$
100 Hz	5 μ g/ $\sqrt{\text{Hz}}$
1,000 Hz	5 μ g/ $\sqrt{\text{Hz}}$
Output impedance, max	100 Ω
Bias output voltage	12 VDC
Grounding	case isolated, internally shielded
Temperature range	-55° to +120°C
Vibration limit	500 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv. g, max	70 μ g/gauss
Sealing	hermetic
Base strain sensitivity, max	0.002 g/ μ strain
Sensing element design	PZT, shear
Weight	145 grams
Case material	316L stainless steel
Mounting	1/4-28 captive hex head screw, 0.046" diameter safety wire hole
Output connector	2 pin, MIL-C-5015 style
Recommended cabling	J9T2A / J9F

Accessories supplied: 1/4-28 captive hex head screw; calibration data (level 2)



Key features

- Certified versions available for use in hazardous areas
- Low profile
- API 670 compliant
- Manufactured in ISO 9001 facility



Connections	
Function	Connector pin
power/signal	A
common	B
ground	shell



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