

# Low-frequency accelerometer

## 787-500



### SPECIFICATIONS

Sensitivity, $\pm 5\%$ , 25°C		500 mV/g
Acceleration range, VDC > 22 V		10 g peak
Amplitude nonlinearity		1%
Frequency response <sup>1</sup> :	$\pm 10\%$	0.5 - 5,000 Hz
	$\pm 3$ dB	0.2 - 10,000 Hz
Resonance frequency		22 kHz
Transverse sensitivity, max		5% of axial
Temperature response:	-25°C	-10%
	+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	250 $\mu$ g
Spectral	10 Hz	2.5 $\mu$ g/ $\sqrt{\text{Hz}}$
	100 Hz	1.5 $\mu$ g/ $\sqrt{\text{Hz}}$
	1,000 Hz	1.5 $\mu$ g/ $\sqrt{\text{Hz}}$
Output impedance, max		100 $\Omega$
Bias output voltage		12 VDC
Grounding		case isolated, internally shielded
Temperature range		-50° to +120°C
Vibration limit		500 g peak
Shock limit		5,000 g peak
Electromagnetic sensitivity, equiv. g, max		70 $\mu$ g/gauss
Sealing		hermetic
Base strain sensitivity, max		0.0002 g/ $\mu$ 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
Mating connector		R6 type
Recommended cabling		J10 / J9T2A

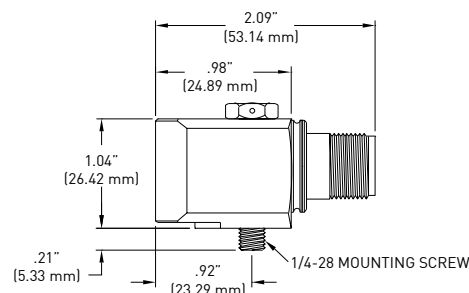
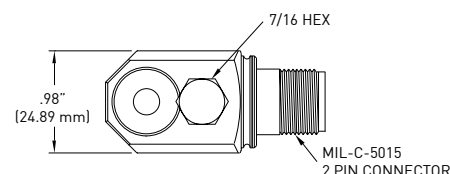
**Notes:** <sup>1</sup> Frequency response limits, spectral and noise values are typical.

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



### Key features

- High sensitivity
- Clear signals at low vibration levels
- Improved signal to noise ratio
- Certified versions available for use in hazardous areas
- 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.  
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