

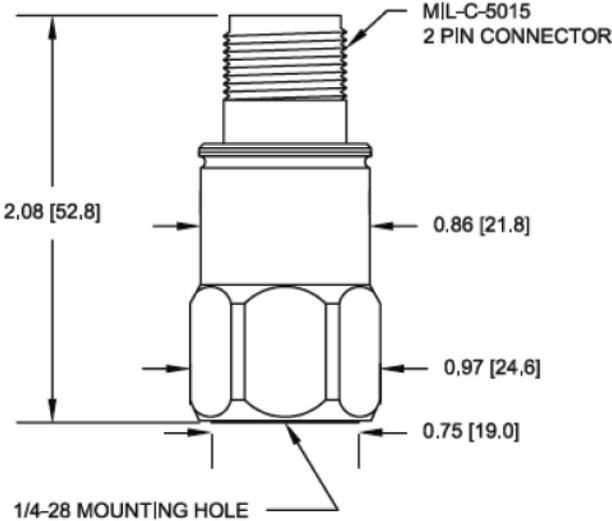
General purpose low-frequency accelerometer

786-500



Key features

- Clear signals at low vibration levels
- Extended low end frequency response vs. other general purpose accelerometers
- A single sensor can detect both low and high speed vibrations
- Optimized to detect vibration on slow-turning machinery such as cooling tower fans and slow speed gearboxes
- ESD and reverse wiring protection



Certifications



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.

General purpose low-frequency accelerometer

786-500

SPECIFICATIONS

Sensitivity, ±5%, 25° C	500 mV/g
Acceleration range, VDC > 22V	10 g peak
Amplitude nonlinearity	1%
Frequency response¹:	
± 5%	0.7 - 5,000 Hz
± 10%	0.5 - 9,000 Hz
± 3 dB	0.2 - 14,000 Hz
Resonance frequency	30 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. g¹:	
Broadband	2.5 Hz to 25 kHz
Spectral	10 Hz
	100 Hz
	1,000 Hz
	250 µg
	2.5 µg/√Hz
	1.5 µg/√Hz
	1.5 µg/√Hz
Output impedance, max	300 Ω
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 µg/gauss
Sealing	hermetic
Base strain sensitivity, max	0.0002 g/µstrain
Sensing element design	PZT, shear
Weight	90 grams
Case material	316L stainless steel
Mounting	1/4-28 UNF tapped hole
Mating connector	R6 type
Recommended cabling	J10 / J9T2A

Contact

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Accessories supplied:

- Calibration data (level 2)
- SF6 mounting stud (metric mounting available)

Notes: ¹ Frequency response limits and spectral noise values are typical.

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