Low-frequency accelerometer

786-500-M12

SPECIFICATIONS

Sensitivity, ±5%, 25°C	500 mV/g
Acceleration range, VDC > 22 V	10 g peak
Amplitude nonlinearity	1%
Frequency response ¹ : ±5% ±10% ±3 dB	0.7 - 5,000 Hz 0.5 - 9,000 Hz 0.2 - 14,000 Hz
Resonance frequency	30 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -50°C +120°C	–5% +5%
Power requirement: Voltage source Current regulating diode	18 - 30 VDC 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	100 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	M12 style, 4 or 5 pin
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Notes: ¹ Frequency response limits and spectral noise values are typical. Accessories supplied: SF6M-1 mounting stud; calibration data (level 2)

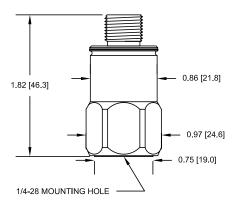


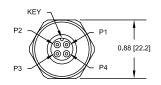




Key features

- · High sensitivity
- Certified versions available for use in hazardous areas
- Manufactured in ISO 9001 facility





Connections	
Function	Connector pin
power/signal	1
common	2
N/C	3
N/C	4
ground	shell

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