



m/s² 787-500-M12
Low-frequency accelerometer

SPECIFICATIONS

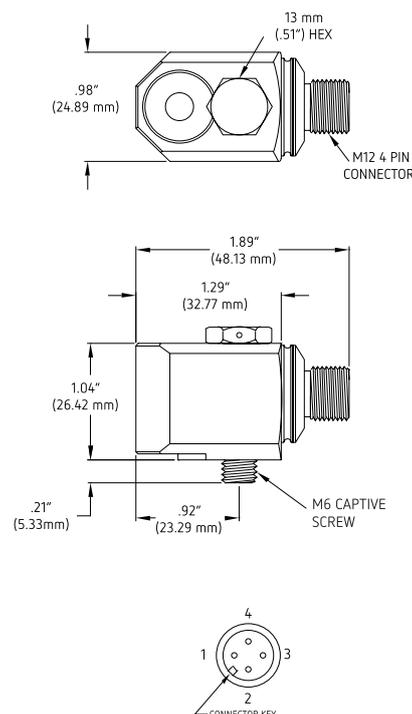
Sensitivity, ±5%, 25°C		500 mV/g	
Acceleration range, VDC > 22 V		10 g peak	
Amplitude nonlinearity		1%	
Frequency response¹:	±10%	0.5 - 5,000 Hz	
	±3 dB	0.2 - 10,000 Hz	
Resonance frequency		22 kHz	
Transverse sensitivity, max		5% of axial	
Temperature response:	-25°C	-10%	
	+120°C	+10%	
Power requirement:			
Voltage source		18 - 30 VDC	
Current regulating diode		2 - 10 mA	
Electrical noise, equiv. g:			
Broadband	2.5 Hz to 25 kHz	250 µg	
	Spectral	10 Hz	2.5 µg/√Hz
		100 Hz	1.5 µg/√Hz
		1,000 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		145 grams	
Case material		316L stainless steel	
Mounting		M6 captive screw, 0.046" diameter safety wire hole	
Output connector		4 pin, M12	
Recommended cabling		J10 / J9T2A	

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



Key features

- High sensitivity
- Extended low frequency response
- 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.