

# General purpose accelerometer

## 787BM8-M12

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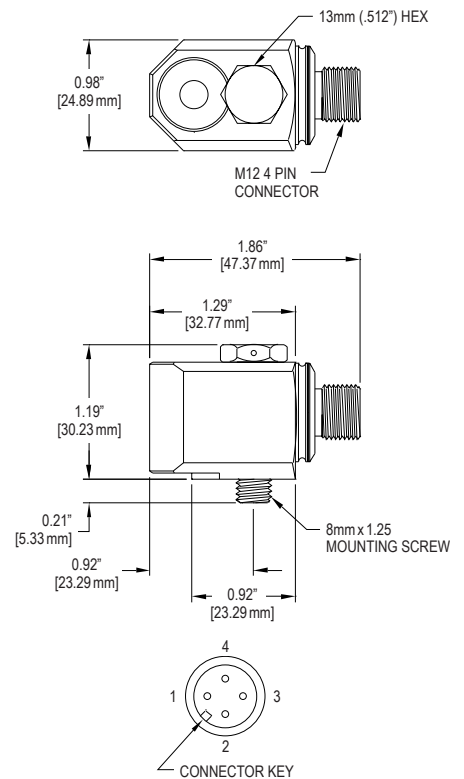
### SPECIFICATIONS

Sensitivity, $\pm 10\%$ , 25°C	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity	1%
Frequency response:	$\pm 10\%$ 1.0 - 5,000 Hz $\pm 3$ dB 0.5 - 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	700 $\mu$ g
Spectral 10 Hz	10 $\mu$ g/ $\sqrt{\text{Hz}}$
100 Hz	5 $\mu$ g/ $\sqrt{\text{Hz}}$
1,000 Hz	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	0.002 g/ $\mu$ strain
Sensing element design	PZT ceramic / shear
Weight	145 grams
Case material	316L stainless steel
Mounting	M8 thread captive screw
Output connector	4 pin, M12 style
Mating connector	M12 style
Recommended cabling	J10 / J9T2A

Accessories supplied: M8 thread captive hex head screw; calibration data (level 2)

### Key features

- Low profile
- 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.