

Industrial accelerometer

787AM8

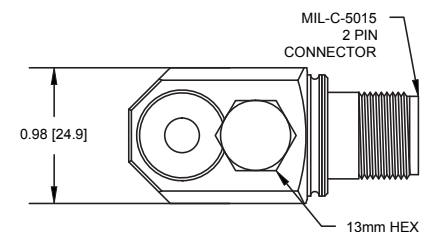
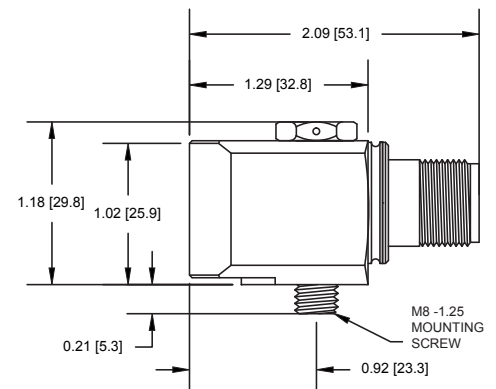
SPECIFICATIONS

Sensitivity, $\pm 5\%$, 25°C	100 mV/g
Acceleration range¹	80 g peak
Amplitude nonlinearity	1%
Frequency response:	$\pm 10\%$ 1.0 - 5,000 Hz ± 3 dB 0.5 - 10,000 Hz
Resonance frequency, mounted, min	22 kHz
Transverse sensitivity, max	5% of axial
Temperature response:	-55°C -20% +120°C +10%
Power requirement:	
Voltage source¹	18 - 30 VDC
Current regulating diode^{1,2}	2 - 10 mA
Electrical noise, equiv. g, nominal:	
Broadband 2.5 Hz to 25 kHz	700 μ g
Spectral 10 Hz	10 μ g/ \sqrt Hz
100 Hz	5 μ g/ \sqrt Hz
1,000 Hz	5 μ g/ \sqrt Hz
Output impedance, max	100 Ω
Bias output voltage, nominal	12 VDC
Grounding	case isolated, internally shielded
Temperature range	-55° to +120°C
Vibration limit	500 g
Shock limit, min	5,000 g
Electromagnetic sensitivity, equiv. g, max	70 μ g/gauss
Sealing	hermetic
Base strain sensitivity, max	0.002 g/ μ strain
Weight	145 grams
Case material	316L stainless steel
Mounting	M8 captive hex head screw with 0.046" diameter safety wire hole
Output connector	2 pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cabling	J9T2A, 2-conductor shielded, Teflon [®] jacketed



Key features

- Certified versions available for use in hazardous areas
- API 670 compliant
- Manufactured in ISO 9001 facility



Notes: ¹ To minimize the possibility of signal distortion when driving long cables or high vibration signals, 24 to 30 VDC powering is recommended. The higher level constant current source should be used when driving long cables.

² A maximum current of 6 mA is recommended for operating temperatures in excess of 100°C.

Accessories supplied: SCM8125 captive hex head screw; calibration data

Connections	
Function	Connector pin / cable conductor color
power/signal	A / white
common	B / black
ground	shell / shield



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