

# Industrial accelerometer

## 787AM8

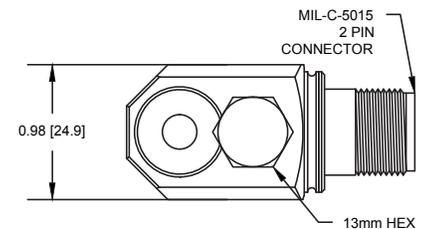
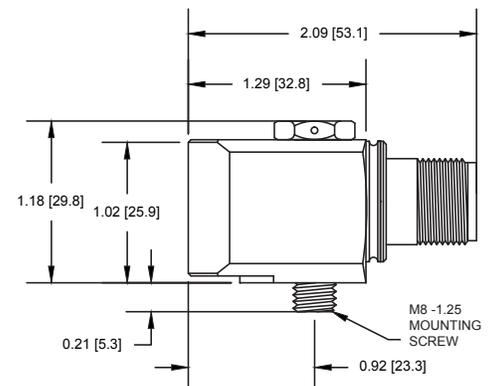
### SPECIFICATIONS

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



### Key features

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



**Notes:** <sup>1</sup> 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.

<sup>2</sup> 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.