



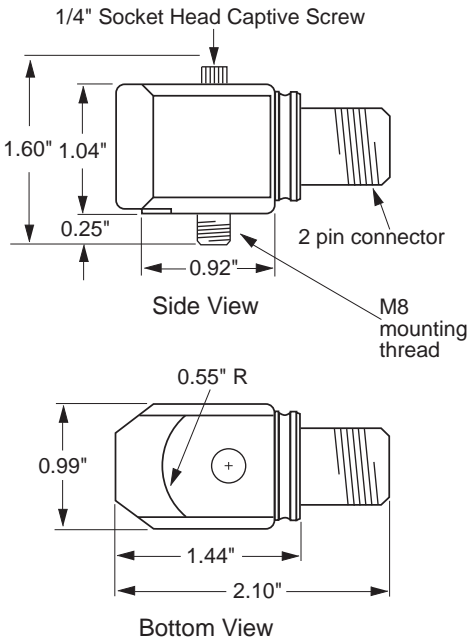
Model 787A-M8-IS Low profile industrial accelerometer

Features

- Corrosion resistant
- Hermetic design
- Ground isolated
- ESD protection
- Reverse wiring protection
- Hazardous area certified - intrinsically safe

Common applications

- Low clearance mounting locations
- Rugged industrial environments
- Conveyors and drives



Dynamic

Sensitivity, ±5%, 25°C	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity	1%
Frequency response:	
±10%	1.0 - 5,000 Hz
±3 dB	0.7 - 10,000 Hz
Resonance frequency, mounted, minimum	22 kHz
Transverse sensitivity, max	5% of axial
Temperature response:	
-50°C	-10%
+120°C	+10%

Electrical

Power requirement: voltage source	18 - 28 VDC
current regulating diode	2 - 10 mA
Electrical noise, equiv. g, nominal:	
Broadband 2.5 Hz to 25 kHz	700 µg
Spectral 10 Hz	10 µg/√Hz
100 Hz	5 µg/√Hz
1000 Hz	5 µg/√Hz
Output impedance, max	100 Ω
Bias output voltage, nominal	12 VDC
Grounding	case isolated, internally shielded

Environmental


Temperature range	-50 to 120°C
Vibration limit	500 g
Shock limit, min	5,000 g
Electromagnetic sensitivity, equiv. g, max	70 µg/gauss
Sealing	hermetic
Base strain sensitivity, max	0.002 g/µstrain

Physical


Weight	145 grams
Case material	316L stainless steel
Mounting	M8 captive hex head screw with 0.046" diameter safety wire hole
Connector	2 pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cabling	J10/J9T2A

Connections


Connector pin	Function	Cable conductor color
Shell	ground	Shield
A	power/ signal	White
B	common	Black



Class I, Div 1 Groups A, B, C, D
Class II, Div 1 Groups E, F, G
Class III, Div 1
Class I, Zone 0, Ex ia IIC T4
Class I, Zone 0, Aex ia IIC T4



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For hazardous area locations, sensor must be installed in accordance with installation instructions
Electrical safety barrier required for hazardous area installations

Accessories supplied: Calibration data; SCM8125 captive screw
Optional accessories available:
ISBS-STD-08: MTL 7728 + safety barrier

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