

Class I, Div 2 certified low profile industrial accelerometer 787AM8-D2



Key features

- Hazardous area certified for Class I, Div 2/Zone 2 locations - non-incendive
- Corrosion resistant
- Hermetically sealed
- Ground isolated
- ESD protection
- Reverse wiring protection
- Ideal for moderate industrial environments, conveyors and drives

Certifications

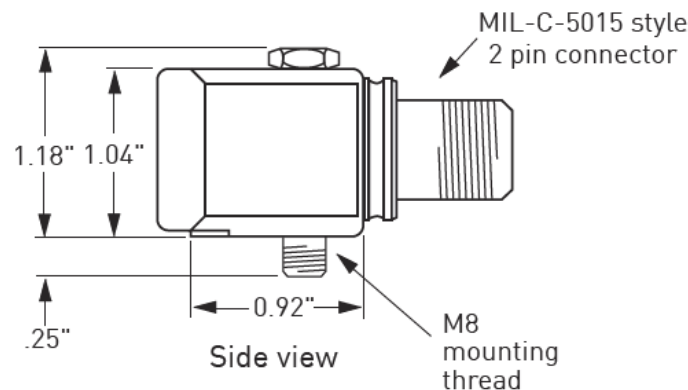
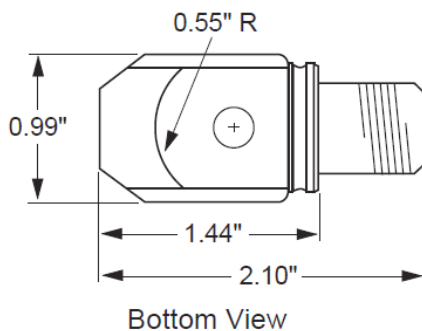


Class I, Div 2 Groups A, B, C, D



Class I, Zone 2
Ex nA II T4 Ta=120°C

For hazardous area locations, sensor must be installed in accordance with installation instructions or local code requirements.



Connections	
Function	Connector pin
power / signal	A
common	B
ground	shell

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

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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 ± 3 dB 0.7 - 10,000 Hz
Resonance frequency, mounted, min	22 kHz
Transverse sensitivity, max	5% of axial
Temperature response:	-25° C -10% +120° C +10%
Voltage source	18 - 28 VDC
Current regulating diode	2 - 10 mA
Electrical noise, equiv. g, nominal:	
Broadband 2.5 Hz to 25 kHz	700 μ g
Spectral 10 Hz	10 μ g/ $\sqrt{\text{Hz}}$
100 Hz	5 μ g/ $\sqrt{\text{Hz}}$
1000 Hz	5 μ g/ $\sqrt{\text{Hz}}$
Output impedance, max	100 Ω
Bias output voltage, nominal	12 VDC
Grounding	case isolated, internally shielded
Temperature range	-50 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	R6D2
Recommended cabling	J10 / J9T2A, no more than 100 ft.

Contact

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Accessories supplied:

- SCM8125 captive hex head screw
- Calibration data

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