

Class I Div 2 certified accelerometer

787A-M8-D2

SPECIFICATIONS

Sensitivity, $\pm 5\%$, 25°C		100 mV/g
Acceleration range		80 g peak
Amplitude nonlinearity		1%
Frequency response:	$\pm 10\%$	1.0 - 5,000 Hz
	± 3 dB	0.5 - 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 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/ $\sqrt{\text{Hz}}$
	1,000 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		-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		R6D2
Recommended cabling		J10 / J9T2A, no more than 100 ft.

Accessories supplied: SCM8125 captive hex head screw; calibration data

Certifications

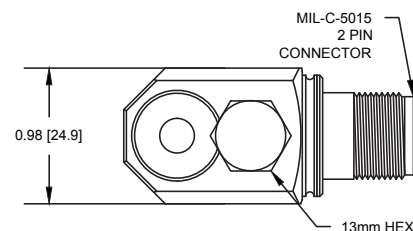
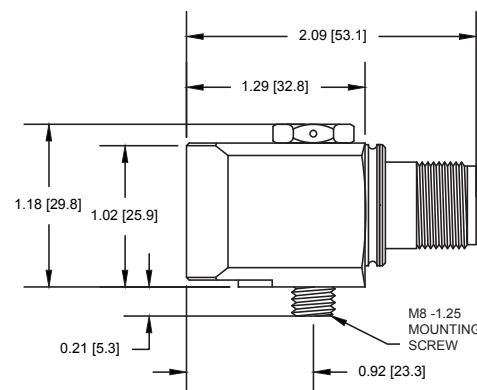
 Class I, Div 2 Groups A, B, C, D Class I, Zone 2 AEx/Ex nA II T4 Tamb: -50°C to 120°C	 II 3 G Ex nA IIC T4 Gc	

Must be installed per 13029. • Ambient temperature range depends on the type cable used during installation. • Cable with FEP jacket, Ta=-50°C to +120°C. • Cable with Santoprene jacket, Ta=-45°C to +115°C.



Key features

- Certified for use in Class I, Div 2 / Zone 2 hazardous areas
- API 670 compliant
- Manufactured in ISO 9001 facility



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.