



## 787A-M8-IS

# Intrinsically safe accelerometer

### SPECIFICATIONS

Sensitivity, ±5%, 25°C	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity	1%
Frequency response: ±10% ±3 dB	1.0 - 5,000 Hz 0.7 - 10,000 Hz
Resonance frequency, mounted, min	22 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -55°C +120°C	–20% +10%
Power requirement: Voltage source Current regulating diode	18 - 28 VDC 2 - 10 mA
Electrical noise, equiv. g, nominal: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1,000 Hz	700 μg 10 μg/√Hz 5 μg/√Hz 5 μg/√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 peak
Shock limit, min	5,000 g peak
Electromagnetic sensitivity, equiv. g, max	70 μg/gauss
Sealing	hermetic
Base strain sensitivity, max	0.002 g/µstrain
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	J10 / J9T2A

Accessories supplied: SCM8125 captive hex head screw; calibration data

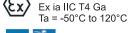
#### Certifications



Class I, Div 1 Groups A, B, C, D Class II, Div 1 Groups E, F, G Class III

Class I Zone 0 AEx/Ex ia IIC T4

Ta = -50°C to 120°C



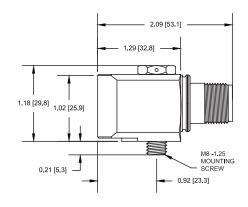


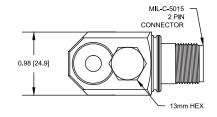
Must be installed per document 12879. For application in explosive atmospheres caused by gases, vapours or mists and where the use of apparatus of category 1G is required, electrostatic charges on the cable and non-metallic parts of the enclosure shall be avoided. The ambient temperature range for these applications is ~40°C to +80°C.



#### **Key features**

- Hazardous area certified intrinsically safe
- API 670 compliant
- · Manufactured in ISO 9001 facility





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.

The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.

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