

Class I Div 2 certified low-frequency accelerometer

787-500-D2

SPECIFICATIONS

Sensitivity, ±5%, 25°C		500 mV/g
Acceleration range, VDC > 22 V		10 g peak
Amplitude nonlinearity		1%
Frequency response¹:	±10%	0.5 - 5,000 Hz
	±3 dB	0.2 - 10,000 Hz
Resonance frequency		22 kHz
Transverse sensitivity, max		5% of axial
Temperature response:	-20°C	-10%
	+120°C	+10%
Power requirement:	Voltage source	18 - 28 VDC
	Current regulating diode	2 - 10 mA
Electrical noise, equiv. g¹:		
Broadband	2.5 Hz to 25 kHz	250 µg
Spectral	10 Hz	2.5 µg/√Hz
	100 Hz	1.5 µg/√Hz
	1,000 Hz	1.5 µg/√Hz
Output impedance, max		100 Ω
Bias output voltage		12 VDC
Grounding		case isolated, internally shielded
Temperature range		-50° 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		0.0002 g/µstrain
Sensing element design		PZT, shear
Weight		145 grams
Case material		316L stainless steel
Mounting		1/4-28 captive hex head screw, 0.046" diameter safety wire hole
Output connector		2 pin, MIL-C-5015 style
Mating connector		R6D2
Recommended cabling		J10 / J9T2A, <100 ft.

Notes: ¹ Frequency response limits and spectral noise values are typical.
Accessories supplied: 1/4-28 captive hex head screw; calibration data (level 2)

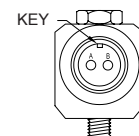
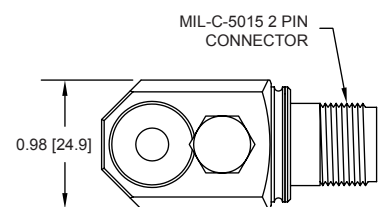
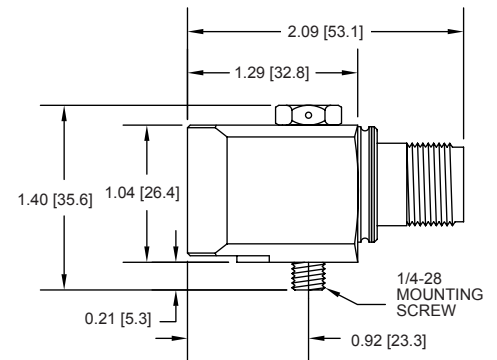
Certifications

	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	
<p>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.</p>				



Key features

- Class I, Div 2/Zone 2 certified - non-incendive
- High sensitivity
- Extended low frequency response
- 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.