## Class I Div 2 certified low-frequency accelerometer

786-500-M12-D2



Sensitivity, ±5%, 25°C		500 mV/g
Acceleration range, VDC > 22 V		10 g peak
Amplitude nonlinearity		1%
_	±5% ±10% :3 dB	0.7 - 5,000 Hz 0.5 - 5,000 Hz 0.2 - 10,000 Hz
Resonance frequency		30 kHz
Transverse sensitivity, max		5% of axial
	-25°C  20°C	–10% +10%
Power requirement: Voltage source Current regulating diode		18 - 30 VDC 2 - 10 mA
1	5 kHz 10 Hz 00 Hz 00 Hz	250 μg 2.5 μg/√Hz 1.5 μg/√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		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		90 grams
Case material		316L stainless steel
Mounting		1/4-28 UNF tapped hole
		M12 style, 4 pin

**Notes:** <sup>1</sup> Frequency response limits and spectral noise values are typical. **Accessories supplied:** SF6M mounting stud; 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



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.

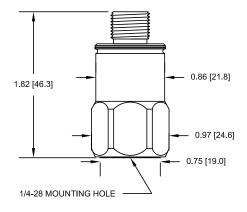


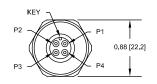




## **Key features**

- 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	1
common	2
N/C	3
N/C	4
ground	shell

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