## Class I Div 2 certified low-frequency accelerometer



787-500-M12-D2



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## **SPECIFICATIONS**

Sensitivity, ±5%, 25°C	500 mV/g
Acceleration range, VDC > 22 V	10 g peak
Amplitude nonlinearity	1%
Frequency response <sup>1</sup> : ±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. g:	
Broadband 2.5 Hz to 25 kHz	250 μg <sub>,</sub>
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	5,000 g peak
Electromagnetic sensitivity, equiv. g, max	κ 70 μg/gauss
Sealing	hermetic
Base strain sensitivity, max	0.0002 g/µstrain
Sensing element design	PZT, shear
Weight	4.4=
Weight	145 grams
Case material	316L stainless steel
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**Notes:** <sup>1</sup> Frequency response limits, spectral and noise values are typical. **Accessories supplied:** M6 captive 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

 $\langle \varepsilon_x \rangle$ 

II 3 G Ex nA IIC T4 Gc

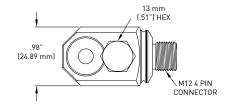


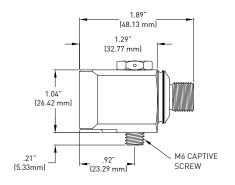
Must be installed per 13029. • Ambient temperature range depends on the type cable used during installation. • Cable with FEP jacket,  $Ta=-50^{\circ}C$  to +120°C. • Cable with Santoprene jacket,  $Ta=-45^{\circ}C$  to +115°C.



## **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.