Class I Div 2 certified accelerometer



787A-M12-D2

SPECIFICATIONS

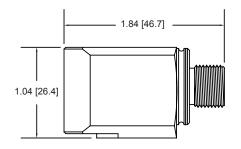
Sensitivity, ±5%, 25°C	100 mV/g	
Acceleration range, VDC > 25 V	80 g peak	
Amplitude nonlinearity	1%	
Frequency response: ±10% ±3 dB	1.0 - 5,000 Hz 0.5 - 10,000 Hz	
Resonance frequency	22 kHz	
Transverse sensitivity, max	5% of axial	
Temperature response: -55°C +120°C	–20% +10%	
Power requirement: Voltage source Current regulating diode	18 - 30 VDC 2 - 10 mA	
Electrical noise, equiv. g: 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	12 VDC	
Grounding	case isolated, internally shielded	
Temperature range	–55° 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	145 grams	
Case material	316L stainless steel	
Mounting	M6 captive screw	
Mating connector	4 pin, M12 style	
Recommended cabling	J10 / J9T2A	
Acceptance cumplied: M6 contine corous colibration	data (laval 2)	

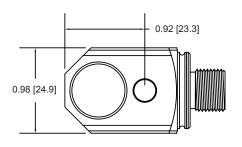
Accessories supplied: M6 captive screw; calibration data (level 2)

Services Ser

Key features

- Class I, Div 2/Zone 2 certified non-incendive
- API 670 compliant
- Manufactured in ISO 9001 facility







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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 ϵ

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.

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.

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