Class I, Div 2 certified accelerometer 786A-M12-D2

SPECIFICATIONS

Sensitivity, ±5%, 25°C	100 mV/g
Acceleration range, VDC > 25 V	80 g peak
Amplitude nonlinearity	1%
Frequency response: ±5% ±10% ±3 dE	1 - 9,000 Hz
Resonance frequency	30 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -55°C +120°C	
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	z 10 μg/√Hz z 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, m	ax 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	M6 captive screw
Mating connector	M12 style, 4 or 5 pin
Recommended cabling	J10 / J9T2A

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

Certifications



Class I, Div 2 Groups A, B, C, D Class I, Zone 2 JS AEx/Ex nA II T4 Ta = -50°C to 120°C



CE

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.

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

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Key features

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





Connections	
Function	Connector pin
power/signal	1
common	2
N/C	3
N/C	4
ground	shell

