## General purpose accelerometer



## 786A-M12

## **SPECIFICATIONS**

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Sensitivity, ±5%, 25°C	100 mV/g
Acceleration range, VDC > 25 V	80 g peak
Amplitude nonlinearity	1%
	<b>5%</b> 3 - 5,000 Hz <b>0%</b> 1 - 9,000 Hz <b>dB</b> 0.5 - 14,000 Hz
Resonance frequency	30 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -55 +120	5°C –20% 0°C +10%
Power requirement: Voltage source Current regulating diode	18 - 30 VDC 2 - 10 mA
Electrical noise, equiv. g: Broadband 2.5 Hz to 25 k Spectral 10 100 1,000	<b>Hz</b> 10 μg/√Hz <b>Hz</b> 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	90 grams
Case material	316L stainless steel
Mounting	1/4-28 UNF tapped hole
Mating connector	M12 style, 4 or 5 pin
Recommended cabling	J10 / J9T2A

Accessories supplied: SF6M-1 mounting stud; calibration data (level 2)



## **Key features**

- Certified versions available for use in hazardous areas
- · 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

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