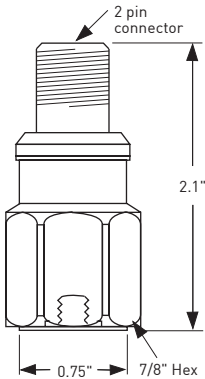


Model 786A
General purpose accelerometer



- Features**
- Rugged design
 - Corrosion resistant
 - Hermetic seal
 - Case isolated
 - ESD protection
 - Reverse wiring protection



Dynamic

Sensitivity, ±5%, 25°C.....	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
± 5%.....	3 - 5,000 Hz
± 10%.....	1 - 9,000 Hz
± 3 dB	0.5 - 14,000 Hz
Resonance frequency.....	30 kHz
Transverse sensitivity, max.....	5% of axial
Temperature response:	
-50°C.....	-5%
+120°C.....	+5%

Electrical

Power requirement:	voltage source	18 - 30 VDC
	current regulating diode	2 - 10 mA
Electrical noise, equiv g:		
Broadband 2.5 Hz to 25 kHz.....		700 µg
Spectral 10 Hz.....		10 µg/√Hz
100 Hz.....		5 µg/√Hz
1000 Hz.....		5 µg/√Hz
Output impedance, max		100 Ω
Bias output voltage.....		12 VDC
Grounding.....		case isolated, internally shielded

Environmental

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

Physical

Sensing element design	PZT ceramic / shear
Weight	90 grams
Case material	316L stainless steel
Mounting	1/4 - 28 UNF tapped hole
Output connector.....	2 pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cabling.....	J10 / J9T2A

Connector pin	Function
Shell	ground
A	power/ signal
B	common

Accessories supplied: SF6 mounting stud (International customers specify mounting requirements); calibration data (level 2)

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