



## Model 780A General purpose accelerometer

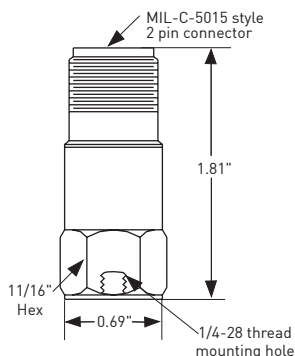


### Features

- Rugged design
- Corrosion resistant
- Hermetic seal
- Case isolated
- ESD protection
- Reverse wiring protection
- EMI / RFI shielded

### Benefits

- Able to fit in small spaces
- Light weight for walk around programs
- Cross wiring will not harm sensor
- Prevents ground loops in permanent mount applications
- Can be hoses down or submersed with proper connector
- Magnet or permanent mount applications



### Dynamic

Sensitivity, ±5%, 25°C .....	100 mV/g
Acceleration range .....	80 g peak
Amplitude nonlinearity .....	1%
Frequency response:	
± 5% .....	1 - 7,000 Hz
± 10% .....	0.7 - 9,000 Hz
± 3 dB .....	0.4 - 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 .....	500 µg
Spectral	10 Hz .....	7 µg/√Hz
	100 Hz .....	4 µg/√Hz
	1000 Hz .....	2 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 .....	62 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

### Connections

Connector pin	Function
Shell	ground
A	power/ signal
B	common

Note: Frequency response and spectral noise values are typical  
 Accessories supplied: SF6 mounting stud (International customers specify mounting requirements); calibration data (level 2)

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