

## Models 780B and 780C Compact general purpose accelerometers

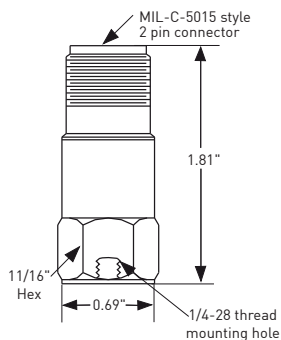


### Features

- Rugged design
- Corrosion resistant
- Hermetic seal
- Case isolated
- ESD protection
- Reverse wiring protection
- EMI / RFI shielded
- 780B option: 10% sensitivity tolerance
- 780C option: 15% sensitivity tolerance

### 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 hosed down or submersed with proper connector
- Magnet or permanent mount applications



### Dynamic

Sensitivity, 25°C.....	100 mV/g
Sensitivity tolerance:	
780B.....	±10%
780C.....	±15%
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 - 14,000Hz
Resonance frequency.....	30 kHz
Transverse sensitivity, max.....	5% of axial
Temperature effect on sensitivity:	
-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

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 custom requirements); calibration data (level 2)



We reserve the right to vary the foregoing details without prior notice

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