



Model 785A Low profile industrial accelerometer

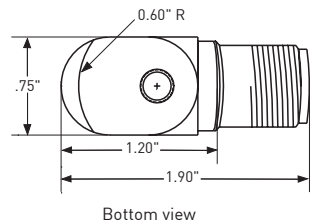
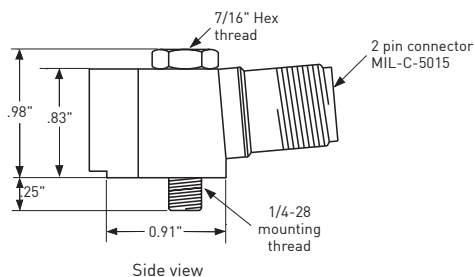


Common applications

- General purpose
- Moderate industrial environments
- Conveyors and drives

Features

- Corrosion resistant
- Hermetic design
- Ground isolated
- ESD protection
- Reverse wiring protection
- RFI protection



Dynamic

Sensitivity, ±10%, 25°C	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity	1%
Frequency response:	
±10%	2.0 - 8,000 Hz
±3 dB	1.0 - 12,000 Hz
Resonance frequency, mounted, min.....	30 kHz
Transverse sensitivity, max	5% of axial
Temperature response	-50°C -10%
	+120°C +7%

Electrical

Power requirement:	voltage source	18 - 30 VDC
	current regulating diode	2 - 10 mA
Electrical noise, equiv. g, nominal:		
Broadband 2.5 Hz to 25 kHz		1,260 µg
Spectral 10 Hz		11 µg/√Hz
100 Hz		6 µg/√Hz
1000 Hz		6 µg/√Hz
Output impedance		100 Ω
Bias output voltage, nominal.....		12 VDC
Grounding		case isolated, internally shielded

Environmental

Temperature range.....	-50 to 120°C
Vibration limit	500 g
Shock limit, min.....	5,000 g
Sealing.....	hermetic
Base strain sensitivity, max	0.002 g/µstrain

Physical

Weight	85 grams
Case material	316L stainless steel
Mounting.....	1/4 - 28 captive hex head screw with 0.046" diameter safety wire hole
Output connector	2 pin MIL-C-5015 style
Mating connector.....	R6 type
Recommended cabling.....	J10 / J9T2A

Connector pin	Function
Shell	case
A	power / signal
B	common

Notes: ¹ At 90 inch/lb. torque.

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