



## Model 785A Low profile industrial accelerometer

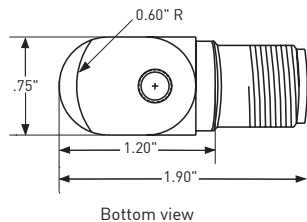
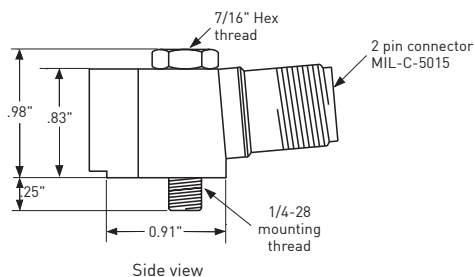


### Common applications

- General purpose
- Moderate industrial environments
- Conveyors and drives

### Features

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



### Dynamic

Sensitivity, $\pm 10\%$ , 25°C.....	100 mV/g
Acceleration range .....	80 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
$\pm 10\%$ .....	2.0 - 8,000 Hz
$\pm 3$ 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 $\mu$ g
Spectral 10 Hz.....	11 $\mu$ g/ $\sqrt$ Hz
100 Hz.....	6 $\mu$ g/ $\sqrt$ Hz
1000 Hz.....	6 $\mu$ g/ $\sqrt$ Hz
Output impedance .....	100 $\Omega$
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/ $\mu$ strain

### 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: <sup>1</sup> At 90 inch/lb. torque.

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