



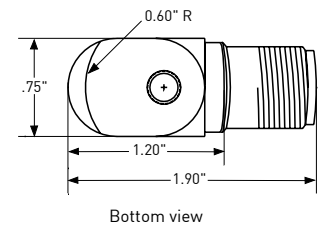
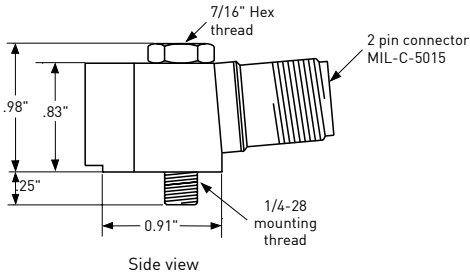
Model 785A Low profile industrial accelerometer

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
± 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 μ g
Spectral 10 Hz.....	11 μ g/ \sqrt Hz
100 Hz.....	6 μ g/ \sqrt Hz
1000 Hz.....	6 μ g/ \sqrt 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/ μ 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: ¹ At 90 inch/lb. torque.

ALTHEN reserves the right to vary the foregoing details without prior notice



ALTHEN GmbH Mess- und Sensortechnik

Frankfurter Strasse 150 - 152
65779 Kelkheim / Germany

phone: +49 (0)6195 70060
fax: +49 (0)6195 700666

sales@althensensors.com
www.althensensors.com