



Models 786F General purpose, integral cable accelerometer

Dynamic

Sensitivity, ±5%, 25 °C	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity	1%
Frequency response, nominal:	
±10 %	1 - 8,000 Hz
±3 dB	0.5 - 13,000 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	700 µg
Spectral 10 Hz	10 µg/√Hz
100 Hz	5 µg/√Hz
1000 Hz	5 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
Shock limit, min.....	5,000 g
Electromagnetic sensitivity, equiv. g, max	70 µg/gauss
Sealing	hermetic
Base strain sensitivity, max.....	0.0002 g/µstrain
Hydrostatic pressure	100 psi

Physical

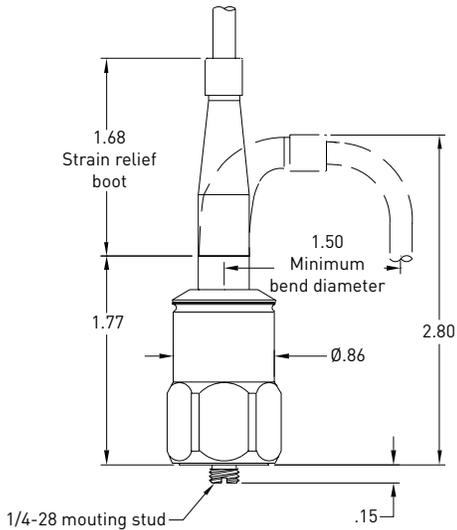
Sensing element design	PZT ceramic / shear
Weight	90 grams
Case material	316L stainless steel
Mounting.....	1/4 - 28 UNF tapped hole
Integral cabling.....	J9T2A, 16 ft., blunt cut

Features

- Rugged design
- Corrosion resistant
- Hermetic seal
- Case isolated
- ESD protection
- Reverse wiring protection

Function	786F cable conductor
Power/signal	white
Common	black
Case	shield

Accessories supplied: SF6 mounting stud (international customers specify mounting requirements); calibration data (level 2).



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