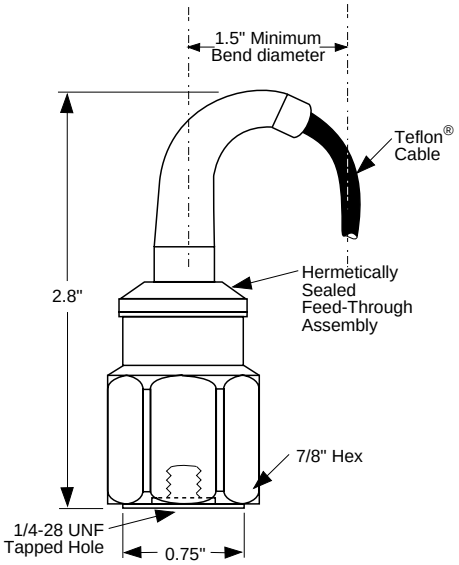
Models 786F

General Purpose, Integral Cable Accelerometer

FEATURES:

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



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
Mating Connector		Not applicable
Integral Cabling		J9T2A, 16 ft., blunt cut

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).

Due to continued research and development, Wilcoxon Research reserves the right to amend this specification without notice.

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