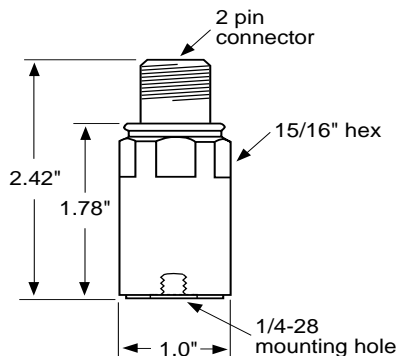


Model 793 Industrial Piezoelectric Accelerometer



FEATURES:

- Intrinsic safety certified options
- Rugged, general purpose
- Hermetic seal
- ESD protection
- Miswiring protection



SPECIFICATIONS

DYNAMIC

Sensitivity, $\pm 5\%$, 25°C	100 mV/g
Acceleration Range	80 g peak
Amplitude Nonlinearity	1%
Frequency Response:	
$\pm 5\%$	1.5 - 5,000 Hz
$\pm 10\%$	1.0 - 7,000 Hz
± 3 dB	0.5 - 15,000 Hz
Resonance Frequency, mounted, nominal	25 kHz
Transverse Sensitivity, max.	5% of axial

ELECTRICAL

Power Requirement:	
voltage source	18 - 30 VDC
current regulating diode ¹	2 - 10 mA
Electrical Noise, equiv. g, nominal:	
Broadband 2.5 Hz to 25 kHz	600 μ g
Spectral 10 Hz	8 μ g/ \sqrt Hz
100 Hz	5 μ g/ \sqrt Hz
1000 Hz	5 μ g/ \sqrt Hz
Output Impedance, max	100 Ω
Bias Output Voltage, nominal	12 VDC
Grounding	case isolated, internally shielded

ENVIRONMENTAL

Temperature Range	-50 to 120°C
Vibration Limit	500 g peak
Base Strain Sensitivity	0.0005 g/ μ strain

PHYSICAL

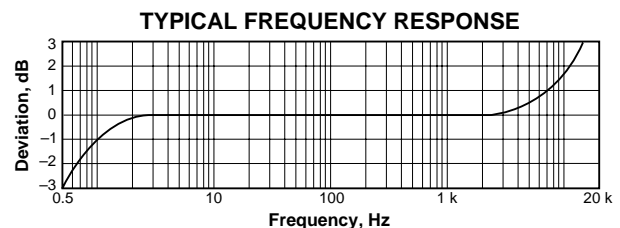
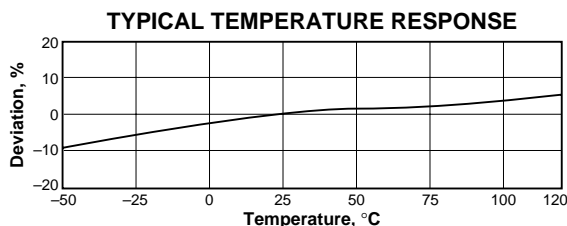
Weight	112 grams
Case Material	316L stainless steel
Mounting	1/4 - 28 tapped hole
Output Connector	MIL-C-5015, 2-pin
Connections Pin A	signal, power
Pin B	common
Cabling: Mating connector	Wilcoxon R6 (Amphenol 97-3106A-10SL-4S)
Recommended Cable	J9T2, two conductor shielded, Tefzel jacket, 30 pF/ft

NOTES: ¹ A maximum current of 6 mA is recommended for operating temperatures in excess of 100 °C.

OPTIONS: Intrinsic safety certifications; 10 ft. sealed integral cable "S"; stainless steel flexible hose; temperature sensor "T"; customer specified filtering, sensitivity, and cable length.

ACCESSORIES SUPPLIED: SF6 mounting stud, Calibration Data.

ACCESSORIES AVAILABLE: Magnetic mounting bases; SF8 cementing studs; R6SL-J9T2-XX splash-proof cable assembly; power supplies; amplifiers; signal conditioners.



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

