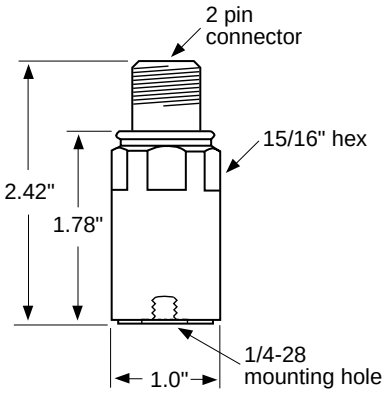
w i l c o x o n

Model 793L
Low Frequency Accelerometer

FEATURES:
- High sensitivity
- Ultra low-noise electronics for clear signals at very low vibration levels
- Low pass filtered to attenuate high frequencies
- Hermetic seal
- ESD protection
- Miswiring protection



DYNAMIC		
Sensitivity, ±5%, 25°C		500 mV/g
Acceleration Range		10 g peak
Amplitude Nonlinearity		1%
Frequency Response:		
–5%		0.6 - 700 Hz
–10%		0.4 - 1,000 Hz
–3 dB		0.2 - 2,300 Hz
Resonance Frequency		15 kHz
Transverse Sensitivity, max.		5% of axial
Temperature Response		–50°C –10% +120°C +10%
ELECTRICAL		
Power Requirements: voltage source		18 - 30 VDC
current regulating diode		2 - 10 mA
Electrical Noise, equiv. g:		
Broadband 2.5 Hz to 25 kHz		8.0 μg
Spectral 2 Hz		2.0 μg/√Hz
10 Hz		0.4 μg/√Hz
100 Hz		0.2 μg/√Hz
Output Impedance, max.		100Ω
Bias Output Voltage		10 VDC
Grounding		case isolated, internally shielded
ENVIRONMENTAL		
Temperature Range		–50 to 120°C
Vibration Limit		250 g peak
Shock Limit		5,000 g peak
Electromagnetic Sensitivity, equiv. g.		20 μg/gauss
Sealing		Hermetic
Base Strain Sensitivity		0.0001 g/μstrain
PHYSICAL		
Sensing Element Design		PZT ceramic / compression
Weight		142 grams
Case Material		316L stainless steel
Mounting		¼-28 tapped hole
Output Connector		2 pin, MIL-C-5015 style
Mating Connector		R6 type
Recommended Cabling		J9T2A

CONNECTOR PIN	FUNCTION	CABLE CONDUCTOR COLOR
SHELL	ground	Shield
A	power/ signal	White
B	common	Black

ACCESSORIES SUPPLIED: SF6 mounting stud (International customers specify mounting requirements); Calibration data (level 3).

OPTIONS: Temperature sensor
Intrinsic safety certification

FM APPROVED

ISO 9001

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

WILCOXON RESEARCH
21 Firstfield Road, Gaithersburg, MD 20878 • Tel 301-330-8811 • Fax 301-330-8873 • 1-800-WILCOXON • Email sensors@wilcoxon.com • Web www.wilcoxon.com