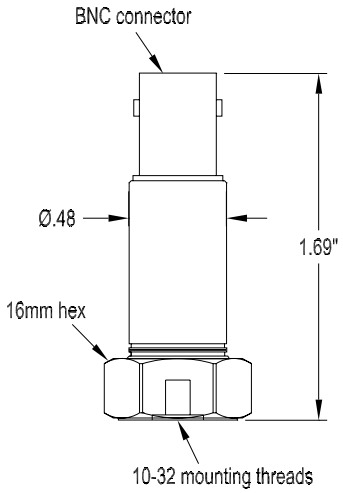
Wilcoxon Research model 732-1D
High frequency accelerometer

Features

- Wide dynamic range
- BNC connector
- Wide frequency range
- Base isolation

Benefits

- Compatible with coaxial cable systems
- Elimination of ground loops
- Suitable for 1/3 octave data collection
- Detects low and high speed equipment vibration



Dynamic

Sensitivity, ± 5%, 25° C		10 mV/g
Acceleration range		500 g peak
Amplitude nonlinearity		1%
Frequency response		
± 5%		1.0 - 15,000 Hz
±3 dB		0.4 - 22,000 Hz
Resonance frequency, mounted, nominal		28 kHz
Transverse sensitivity, max		5% of axial
Temperature response:		
–50° C		–10%
+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	250 µg
Spectral	10 Hz	20 µg/√Hz
	100 Hz	4 µg/√Hz
	1,000 Hz	2 µg/√Hz
	10,000 Hz	2 µg/√Hz
Output impedance, max		100 Ω
Bias output voltage		10 VDC
Grounding		base isolated

Environmental

Temperature range	–50 to 120° C
Vibration limit	500 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv. g	100 µg/gauss
Base strain sensitivity	0.005 g/µstrain

Physical

Sensing element design	PZT, compression
Weight	28 g
Material	316L stainless steel
Mounting	10-32 tapped hole
Output connector	BNC coaxial
Mating connector	R2
Recommended cabling	J93

Connections

Function	Connector pin
common	shell
power / signal	pin

Accessories supplied: SF1 mounting stud, metric stud available; calibration data (level 3)

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