

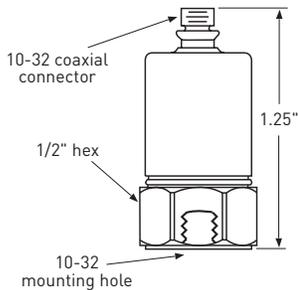


Wilcoxon Research models 736/736T Compact, high sensitivity, high frequency accelerometer

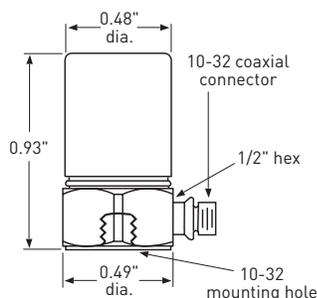


Features

- Wide dynamic range
- Compact construction to fit in tight spaces
- Wide frequency range



Model 736T



Model 736

Dynamic

Sensitivity, $\pm 5\%$, 25° C.....	100 mV/g
Acceleration range	50 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
$\pm 5\%$	5 - 15,000 Hz
± 3 dB	2 - 25,000 Hz
Resonance frequency.....	60 kHz
Transverse sensitivity, max.....	7% 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	150 μ g
Spectral	
10 Hz.....	10 μ g/VHz
100 Hz.....	2 μ g/VHz
1,000 Hz.....	1 μ g/VHz
10,000 Hz.....	0.8 μ g/VHz
Output impedance, max	150 Ω
Bias output voltage	10 VDC
Grounding.....	case grounded

Environmental

Temperature range	-50 to 120° C
Vibration limit.....	500 g peak
Shock limit	5,000 g peak
Electromagneticsensitivity, equiv. g	100 μ g/gauss
Base strain sensitivity.....	0.005 g/ μ strain

Physical

Sensing element design.....	PZT / compression
Weight.....	13 g
Material	316L stainless steel
Mounting	10-32 tapped hole
Output connector	10-32 coaxial
Mating connector	R1
Recommended cabling	J93

Connections

Function	Connector pin	Cable conductor
power / signal	pin	center
common	shell	shield

Accessories supplied: SF1 mounting stud (international customers specify mounting requirements); calibration data (level 3).

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