High sensitivity, high-frequency accelerometers

Wilcoxon SENSING TECHNOLOGIES

736 and 736T

SPECIFICATIONS

Sensitivity, ±5%, 25°C	100 mV/g
Acceleration range	50 g peak
Amplitude nonlinearity	1%
Frequency response: ±5% ±3 dB	5 - 15,000 Hz 2 - 25,000 Hz
Resonance frequency	60 kHz
Transverse sensitivity, max	7% of axial
Temperature response: -50°C +120°C	–10% +5%
Power requirement: Voltage source Current regulating diode	18 - 30 VDC 2 - 10 mA
Electrical noise, equiv. g: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1,000 Hz 10,000 Hz	150 μg 10 μg/√Hz 2 μg/√Hz 1 μg/√Hz 0.8 μg/√Hz
Output impedance, max	150 Ω
Bias output voltage	10 VDC
Grounding	case grounded
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, max	0.005 g/µstrain
Sensing element design	PZT, compression
Weight	13 grams
Case material	316L stainless steel
Mounting	10-32 tapped hole
Output connector	10-32 coaxial
Mating connector	R1
Recommended cabling	J93

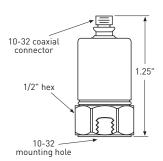
Accessories supplied: SF1 mounting stud (metric mounting available); calibration data (level 3)



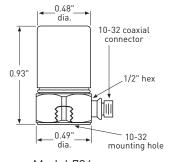


Key features

- · Compact size
- · Wide dynamic range
- Manufactured in ISO 9001 facility



Model 736T



Model 736

Connections	
Function	Connector pin / cable conductor
power/signal	pin / center
common	shell / shield

Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

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