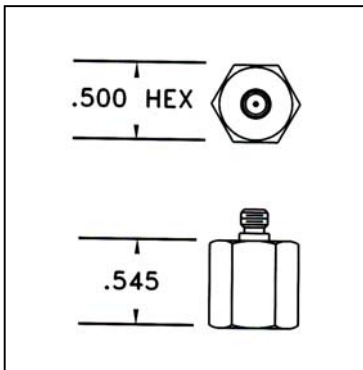


- *Vibration & Shock
- *Low Impedance Output
- *Sensitivity 10 mV/g
- *Low Base Strain Sensitivity
- *Electrical Isolation
- *Hermetically Sealed

Models 962 and 962A Piezoelectric Accelerometers are designed for the measurement of high frequency, moderate to high-level shock and vibration. They incorporate a hybrid electronic assembly within a rugged, welded, double-wall stainless steel body to enhance operation in humid and dirty environments.

The sensors' double-wall, electrically-isolated construction provides additional isolation from metallic structures, which aids in acquiring accurate, wideband shock and vibration data uncorrupted by electrical ground loop currents. The sensor module is bonded into the outer stainless steel body with a high temperature, glass-filled polymer insulator. Low impedance output of 100 ohms or less allows operation directly into standard readout equipment without auxiliary signal conditioning, and is capable of driving up to 500 feet of shielded cable. *Consult the factory for customized versions of this sensor.*

Specifications



Transfer / Electrical	962	962A
Voltage Sensitivity ¹	10 mv/g +/-5%	
Range	+/-500 g Peak	
Frequency Linearity ²	+/-5% Max, 2 Hz To 20,000 Hz	
Mounted Resonant Frequency	40KHz, Min.	
Transverse Sensitivity	3% Max, Typical	
Amplitude Linearity	+/-1.0% (BFSL) / 250 g	
Electrical Noise	0.04 g Equiv., Nom.	
Avg Temp Coeff of Sensitivity	0.03% / Deg F	
Output Bias Voltage	10.25 +/-1 VDC	
Output Impedance	100 Ohms Max.	
Isolation Resistance	100 M Ohm Min., 50 VDC	
Power Requirements	2 To 10 mA DC Constant Current with 18 To 30 VDC Min Compliance	

Environmental

Vibration Limit	1,000 g Max (Sine)	
Shock Limit	2,000 g Max., 50 uSec	10,000 g Max., 50 uSec
Temperature Range	-50 To +250 Deg F (-46 To +121 Deg C)	
Humidity ³	0 To 100% R.H.	
Base Strain Sensitivity	0.02 g/uE Equiv, Typical	
Electromagnetic Sensitivity	0.01 g (Equiv / 100 Gauss)	
Acoustic Sensitivity	0.05 g RMS (Equiv @ 124 dB SPL)	

Physical

Configuration	Shear Crystal Mass Assembly	
Size	0.500 In. Hex. x 0.545 In. H (12.7 mm Hex x 14 mm H)	
Weight	0.46 Oz (13 Gm)	
Case Material	18-8 Stainless Steel	
Electrical Interface	Coaxial 10-32 Thread	
Mounting	10-32 Tapped Base	

NOTES:

¹ At +75 Deg F, 10g Peak, 100Hz; Power Supply 2 To 10 mA DC Constant Current with 18 To 30 VDC Min Compliance

² Referenced to Sensitivity @ 100 Hz.

³ Unit is Hermetic Sealed.

Accessories Supplied:

- (1) Miniature Cable Assembly, LNHT-3 Ft.
- (1) 10-32 x 0.380"L Mounting Stud, St. Stl.
- (1) Hardwood Storage Case
- (1) Standard Calibration Data
- (1) Certificate of Calibration Traceable to N.I.S.T.