

Model 4610 Accelerometer

High Performance DC Response

Low Noise

Temperature Calibrated

10,000g Over-Range Protection

DESCRIPTION

The Model 4610 is a low noise signal conditioned accelerometer with exceptional long-term stability. The accelerometer offers integral temperature compensation and a hermetically sealed sensor assembly. The model 4610 is offered in ranges from 2 to 500g and incorporates mechanical overload stops that provide shock protection to 10,000g.

The 2nd generation MEMS element incorporates gas damping that offers a wide dynamic range and stable frequency response.



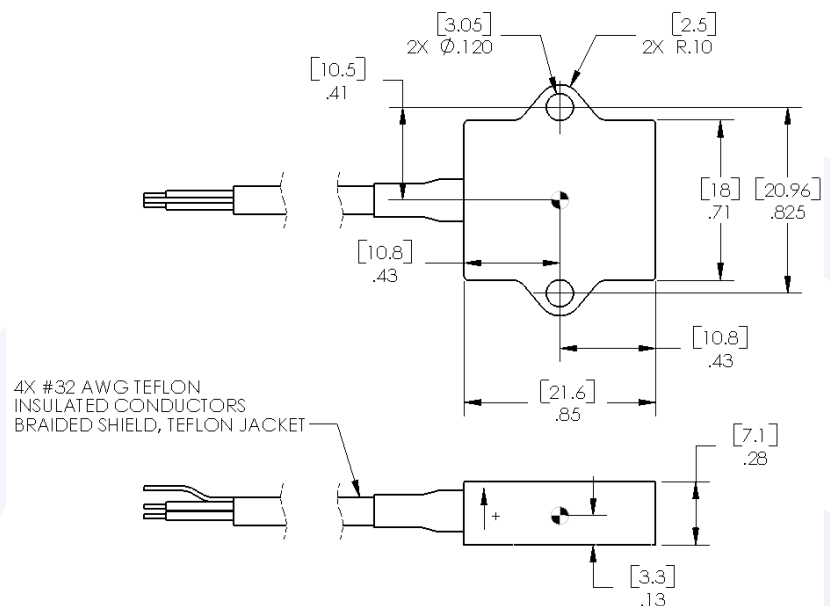
FEATURES

- ◆ ±2g to ±500g Dynamic Range
- ◆ 10,000g Shock Protection
- ◆ Signal Conditioned Output
- ◆ Low Power Consumption
- ◆ Hermetically Sealed Sensor
- ◆ Gas Damping
- ◆ Integral Cable – Connector Option
- ◆ Temperature Compensated

APPLICATIONS

- ◆ Low Frequency Monitoring
- ◆ Transportation
- ◆ Flight Testing
- ◆ Test & Instrumentation

dimensions



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RevA 10/6/05

Model 4610 Accelerometer

performance specifications

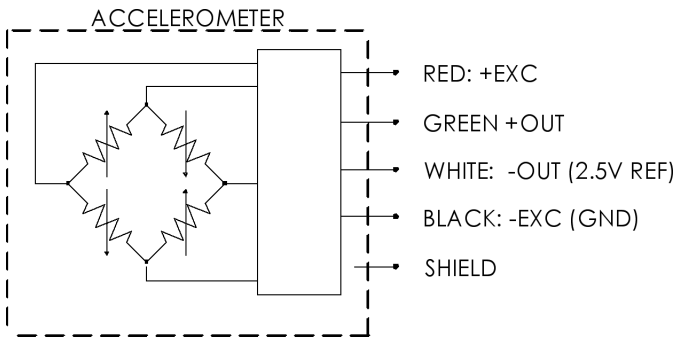
All values are typical at 25°C, 100Hz and 12Vdc excitation unless otherwise stated. MSI Sensors reserves the right to update and change these specifications without notice.

Parameters

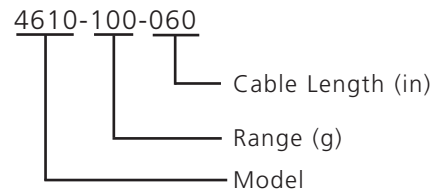
DYNAMIC						
Range	±2	±5	±10	±20	Units	Notes
Sensitivity	1000	400	200	100	mV/g	
Frequency Response	0-250	0-400	0-500	0-800	Hz	±5%
ELECTRICAL						
Excitation Voltage	10 to 24				Vdc	
Excitation Current	5.0				mA	Typical
Reference Voltage	2.5				Vdc	
Output Impedance	100				Ω	Maximum
Insulation Resistance (@ 50Vdc)	100				MΩ	Minimum
Ground Isolation	Isolated					
PHYSICAL						
Housing	Aluminum					Hard Anodized
Weight (cable not included)	8				grams	Maximum
Mounting	2x #4 or 2x M3 Screws					
ENVIRONMENTAL						
Shock Limit	10,000				g's	
Operating Temperature	-40 to +115				°C	
Humidity	Sensor assembly hermetically sealed					

Contact factory for custom temperature compensation options.

electrical schematic



ordering information



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