

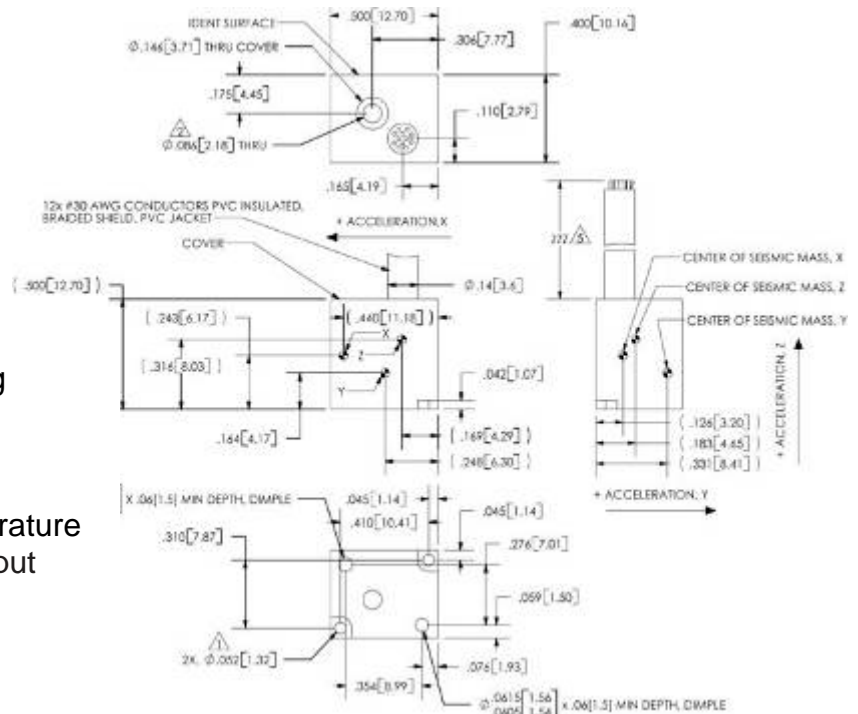
Model 63 Accelerometer

DC Response
Durable Cable
Small Package
Reliable Performance



The **Model 63** accelerometer is a small, compact triaxial device designed for vehicle impact and road testing. Its mechanical overload stops provide high shock protection in rugged applications. Featuring ranges from 500 g to 2000 g and frequency response to 3000 Hz, this sensor is easily mounted in hard to reach places.

dimensions

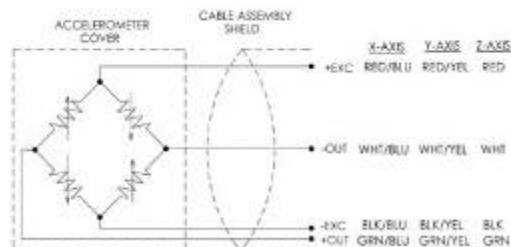


FEATURES

- 2nd Generation MEMS Sensing Element
- 2000 g Full Scale Range
- 2-10 VDC Excitation
- -20 to +85°C Operating Temperature
- <±50 mV Zero Measurand Output
- Mechanical Overload Stops
- Replaceable Sensors

APPLICATIONS

- Safety Crash Testing
 - Auto
 - Truck
 - Recreational Vehicles
- Shock Testing



SIZE	TOLERANCE
± .12 [3.05]	+ .1 [2.54] - .0 [0]
± .12 (20%) & ± .01 (102%)	+ .2 [5.08] - .1 [2.54]
± .01 (10%) & ± .001 (10%)	+ .2 [5.08] - .0 [0]
± .12 (30%) & ± .001 (10%)	+ .1 [2.54] - .0 [0]
± .001 (10%)	+ .12 (20%) - .0 [0]

Model 63 Accelerometer

performance specifications

All values are typical at 24 °C, 100 Hz and 10VDC excitation unless otherwise stated. Measurement Specialties, Inc. reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1004 for Plug & Play DC Accelerometers.

PARAMETERS

DYNAMIC

				Units	Notes
Range	500	1000	2000		
Sensitivity	0.9	0.15	0.15	mV/g	
Frequency Response (Z - Axis)	0-3000	0-3000	0-3000	Hz	±5%
Frequency Response (X & Y - Axis)	0-1500	0-1500	0-1500	Hz	±5%
Resonance	17,000	22,000	26,000	Hz	Gas Damped
Non-Linearity		±1		% FSO	
Transverse Sensitivity		<3		%	
Zero Acceleration Output		<±50		mV	
Thermal Zero Shift, 0 - 50°C(32 - 122°F)		±0.05 (±0.03)		%FSO/°C (%FSO/°F)	
Thermal Sensitivity Shift, 0 - 50°C(32 - 122°F)		±0.1 (±0.06)		%/°C(%/°F)	

ELECTRICAL

Voltage Excitation	2 to 10			Vdc	
Input Impedance	3500 to 4800			S	
Output Impedance (Varies with current)	2700 to 4800			S	
Insulation Resistance	>100			MS	
Ground Isolation	Isolated				
Cable Output	12 x 30 AWG Conductors				72" Standard Length

PHYSICAL

Case Material	Stainless Steel				
Weight	7			grams	Without Cable
Mounting	Screw				M2 X 0.4, 16 mm length
Mounting Torque	3(0.3)				Lb-in(Nm)

ENVIRONMENTAL

Shock Limit	5000	7000	10000	g's	
Operating Temperature	-20 to +85 / -4 to +185				°C/°F
Humidity					Epoxy sealed

PART NUMBERING Model Number+Range+Cable Length

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ordering info



Custom connector options are available. Contact Measurement Specialties, Inc. for applicable model number.