

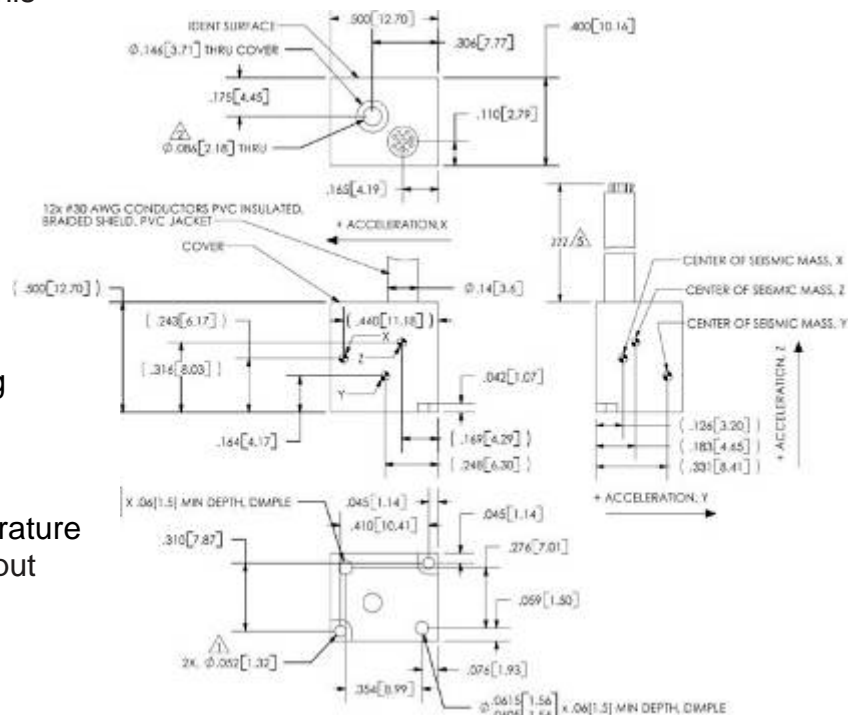
# Model 63 Accelerometer

- 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

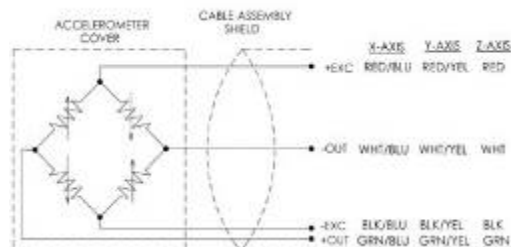


## FEATURES

- 2<sup>nd</sup> 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
6-12 [152]	+1 [25] -8 [20]
+12 [305] & +30 [762]	+2 [51] -1 [25]
+50 [127] & +100 [254]	+2 [51] -8 [20]
+120 [304] & +300 [762]	+5 [127] -8 [20]
+300 [762]	+12 [305] -8 [20]

# 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.

### CONTATO

#### Endereço

Rua Sete de Setembro, 2671 - Centro  
13560-181 - São Carlos - SP - Brasil

#### Telefone

+ 55 (16) 3371-0112

#### Fax

+ 55 (16) 3372-7800

#### Internet

[www.metrolog.net](http://www.metrolog.net)  
[metrolog@metrolog.net](mailto:metrolog@metrolog.net)



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