

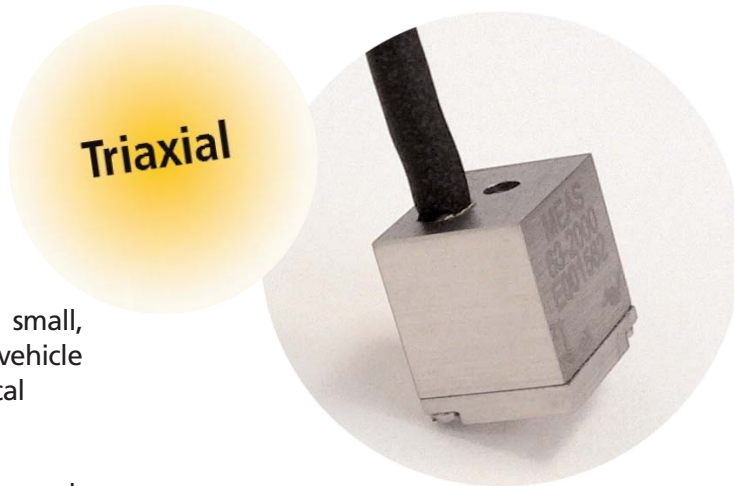
# Model 63 Accelerometer

**DC Response**

**Durable Cable**

**Reliable Performance**

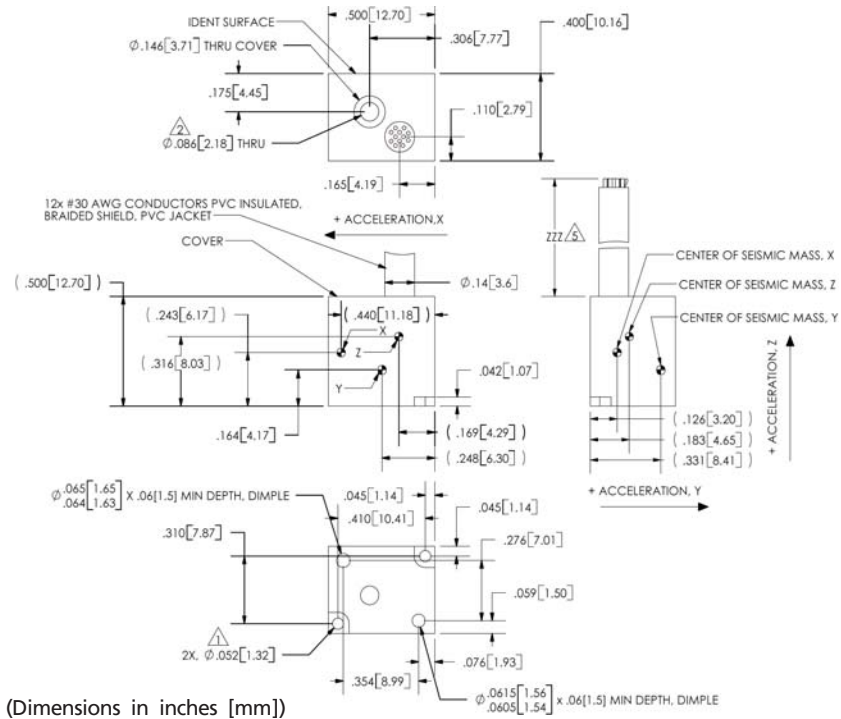
**Low Cost**



## DESCRIPTION

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

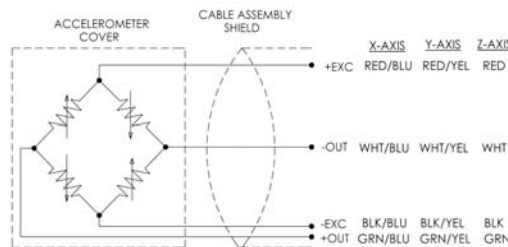


## FEATURES

- ◆ 2<sup>nd</sup> Generation MEMS Sensing Elements
- ◆ 2000 g Full Scale Range
- ◆ 2-10 VDC Excitation
- ◆ -20 to +85°C Operating Temperature
- ◆ <math>\pm 50</math> mV Zero Measurand Output
- ◆ Mechanical Overload Stops
- ◆ Replaceable Sensors

## APPLICATIONS

- ◆ Crash Testing
- ◆ Impact Testing
- ◆ Off-Road Testing
- ◆ Road Testing



TABULATION $\Delta$	
ZZZ	TOLERANCE
$\leq 12$ [305]	+ 1 [25] - 0 [0]
$> 12$ [305] & $\leq 60$ [1524]	+ 2 [51] - 0 [0]
$> 60$ [1524] & $\leq 120$ [3048]	+ 4 [102] - 0 [0]
$> 120$ [3048] & $\leq 360$ [9144]	+ 6 [152] - 0 [0]
$> 360$ [9144]	+ 12 [305] - 0 [0]

www.meas-spec.com  
 Tel: 949-716-5377  
 Fax: 949-916-5677  
 Email: vibration@meas-spec.com



# Model 63 Accelerometer

## performance specifications

All values are typical at 24 °C, 100 Hz and 10 Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

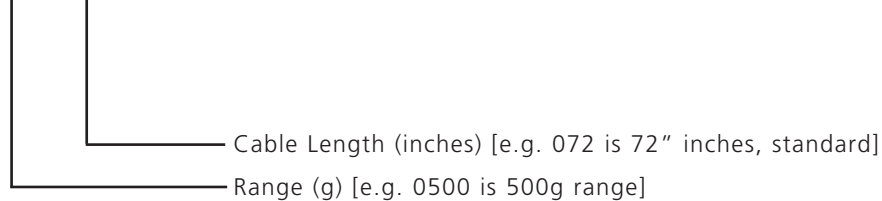
### PARAMETERS

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			Ω	
Output Impedance (Varies with current)	2700 to 4800			Ω	
Insulation Resistance	>100			MΩ	
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

## ordering information

63 - ZZZZ - ZZZ



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

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# Distribuidor

Brasil e América do Sul

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Metrolog Controles de Medição