

Model 63 Accelerometer

Triaxial Accelerometer DC Response Small Package, Compact Durable Shielded Cable

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 ±50g to ±2000g and frequency response to 3000Hz, this sensor is easily mounted in hard to reach places.



dimensions

.306 [7.77]

.110[2.79] .400[10.16]

.500[12.70]

IDENT SURFACE

.175[4.45]

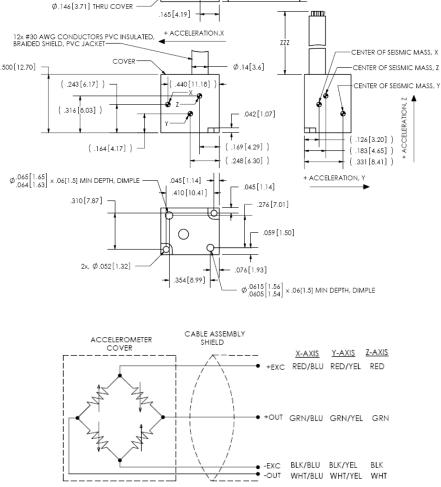
Ø.086[2.18] THRU



- Piezo-resistive MEMS Sensor
- 50g to 2000 g Full Scale Range
- 2-10 Vdc Excitation
- -20 to +85°C Operating Range
- <±50 mV Zero Measurand Output
- Mechanical Overload Stops
- Replaceable Sensors

APPLICATIONS

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



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performance specifications

All values are typical at $\pm 24^{\circ}$ C, 100 Hz and 10 Vdc excitation unless otherwise stated. Measurement Specialties 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 Range(g) Sensitivity (mV/g) ¹ Frequency Response (Hz), Z-Axi Frequency Response (Hz), X&Y Resonant Frequency (Hz) Damping Ratio Shock Limit (g) Non-Linearity (% of reading) Transverse Sensitivity (%)			±200 0.9 0-1200 0-900 7000 0.5 5000 ±1 <3	±500 0.45 0-2000 0-1500 12000 0.3 5000 ±1 <3	±1000 0.15 0-2000 0-1500 22000 0.05 75000 ±1 <3	±2000 0.15 0-3000 0-1500 26000 0.05 10000 ±1 <3	Notes ± 5% ± 5% Typical
ELECTRICAL Zero Acceleration Output (mV) Excitation (Vdc) Input Resistance (Ω) Output Resistance (Ω) Insulation Resistance (M Ω) Residual Noise (μ V RMS) Ground Isolation	<±50 2 to 10 2400- 2400- >100 <10 Isolate	6000	surface				@50Vdc
ENVIRONMENTALThermal Zero Shift (%FSO/°C)±0.05Thermal Sensitivity Shift (%/°C)±0.10Operating Temperature (°C)-20 to +85Storage Temperature (°C)-20 to +85HumidityEpoxy Sealed, IP61							From 0 to +50°C From 0 to +50°C
PHYSICALCase & Cover MaterialStainless SteelCable (Integral 30 Foot Cable)12x #30 AWG Conductors Teflon Insulated, Braided Shield, PU JacketWeight (grams)7.0Mounting1x M2x0.4, 16mm Length Screw ¹ Output is ratiometric to excitation voltage							Cable Not Included Torque 3 lb-in
Calibration supplied: CS-	REQ-0100	NIST Traceable Amplitude Calibration from 20Hz to $\pm 5\%$ Frequency Limit					
Supplied accessories: AC-	02591	1x M2 x 0.4 (16mm length) Phillips Pan Head Screw & Washer					
Optional accessories: 101 140		Three Channel DC Signal Conditioner Amplifier Auto-Zero Inline Amplifier					

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ordering info

PART NUMBERING

Model Number+Range+Cable Length

63-GGGG-CCC

I ____Cable (360 is 360 inches) I _____Range (0500 is 500 g)

Example: 63-2000-072

Model 63, Standard Configuration: 2000g, 072" (6ft) cable

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