DC Response Accelerometer Durable Low Noise Cable Small Package SAE J2570 Compliant

#### The Model 64 Accelerometer

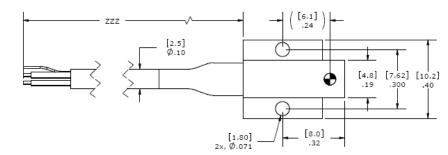
is based on an advanced piezoresistive MEMS sensing element which offers exceptional dynamic range and stability. This unit features a full bridge output configuration with a compensated temperature range from 0 to +50° C. A slight amount of internal gas damping provides outstanding shock survivability and a flat amplitude and phase response up to 7kHz.

The Model 64 is compliant with SAE J211 standards for anthropomorphic dummy instrumentation.

# 12000 12000

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#### dimensions

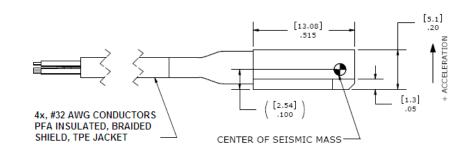


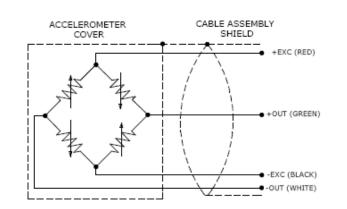
#### **FEATURES**

- Piezoresistive MEMS Sensor
- ±50g to ±6,000g Ranges
- 2-10 Vdc Excitation
- -40 to +121°C Temp Range
- Low Noise Jacketed Cable
- 1% Transverse Sensitivity Option
- <±25 mV Zero Offset</li>

#### **APPLICATIONS**

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





## Model 64 Accelerometer



#### performance specifications

All values are typical at  $\pm 24^{\circ}$ C, 100 Hz and 10Vdc 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.

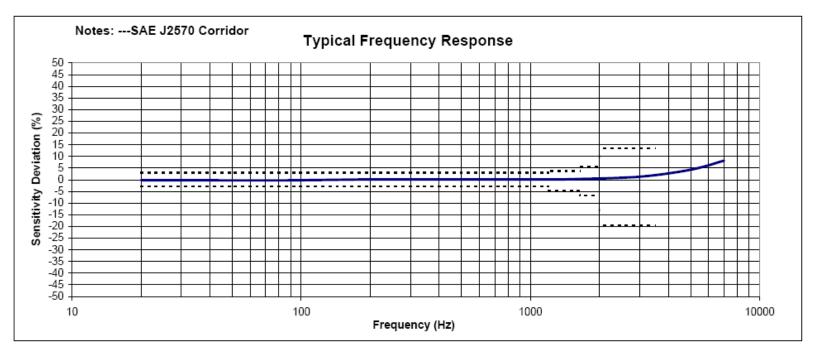
Parameters <b>DYNAMIC</b> Range(g) Sensitivity (mV/g) <sup>1</sup> Frequency Response (Hz) Resonant Frequency (Hz) Damping Ratio Shock Limit (g) Non-Linearity (% of reading) Repeatability (Equiv. g) Transverse Sensitivity (%)	±50 2 0-400 0-1000 0-1400 4000 0.5 5000 ±1 <0.2 <3	±100 0.9 0-500 0-1200 0-1500 6000 0.5 5000 ±1 <0.2 <3	±200 0.8 0-600 0-1400 0-1900 8000 0.5 5000 ±1 <0.2 <3	±500 0.4 0-800 0-2000 0-2800 15000 0.3 10000 ±1 <0.2 <3	±2000 0.15 0-3000 0-5000 0-7000 26000 0.05 10000 ±1 <0.2 <3	±6000 0.10 0-3000 0-5000 0-7000 26000 0.05 10000 ±1 <0.2 <3	Notes ±2% (±3% for 2000g/6000g) ±½dB (±7% for 2000g/6000g) ±1dB (±13% for 2000g/6000g) Typical After full scale shock <1% Option
<b>ELECTRICAL</b> Zero Acceleration Output (m Excitation (Vdc) Input Resistance ( $\Omega$ ) Output Resistance ( $\Omega$ ) Insulation Resistance (M $\Omega$ ) Residual Noise ( $\mu$ V RMS) Ground Isolation	2 to 10 2400-600 2400-600 >100 <10	-	surface				<±10mV Option @100Vdc
<b>ENVIRONMENTAL</b> Thermal Zero Shift (%FSO/° Thermal Sensitivity Shift (%/ Operating Temperature (°C) Storage Temperature (°C) Humidity	/°Ć) -0.20 ±0.0 -40 to +12 -40 to +12	21					From 0 to +50°C From 0 to +50°C
Cable (Integral 30 Foot Cable)4xWeight (grams)1.0		ized Aluminum Case, Brass Cover 2 AWG Conductors PFA Insulated, Braided Shield, TPE Jacket I-80 x 3/16" Socket Head Cap Screws					Cable Not Included Torque 3 Ib-in
Calibration supplied:	CS-FREQ-0100	-0100 NIST Traceable Amplitude Calibration from 20Hz to ±1dB Frequency Limit					
Supplied accessories:	AC-A02053	2x #0-80 (3/16 length) Socket Head Cap Screw, 2x #0 Washer, 1x Allen Key					
Optional accessories:	MTG-E4 121 140	Triaxial Mounting Block 3-Channel Precision Low Noise DC Amplifier Auto-Zero Inline Amplifier					

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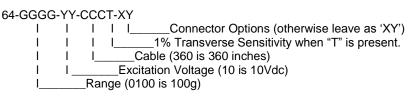
### **Model 64 Accelerometer**

performance specifications



#### ordering info

PART NUMBERING Model Number+Range+Excitation+Cable Length+Options



Example: 64-2000-10-360-XY

Model 64, Standard Configuration: 2000g, 10V Excitation, 360" (30ft) Cable), No Options.