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

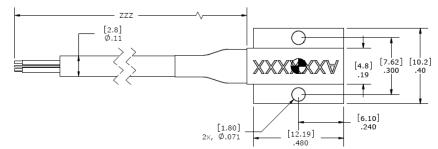
The Model 64B Accelerometer

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



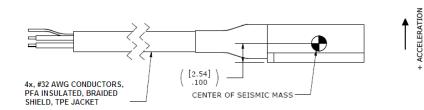
dimensions

measureme



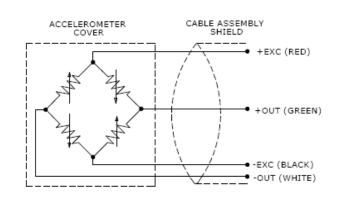
FEATURES

- Piezoresistive MEMS Sensor
- ±50g to ±6,000g Ranges
- 2-10 Vdc Excitation
- 0-50 °C Temperature Range
- Low Noise Jacketed Cable
- 1% Transverse Sensitivity Option
- <±25 mV Zero Offset



APPLICATIONS

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



32 Journey Ste. 150 Aliso Viejo, CA 92656

06/12/2013



Model 64B 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. Standard product parameters are described in PSC-1004 for Plug & Play DC Accelerometers.

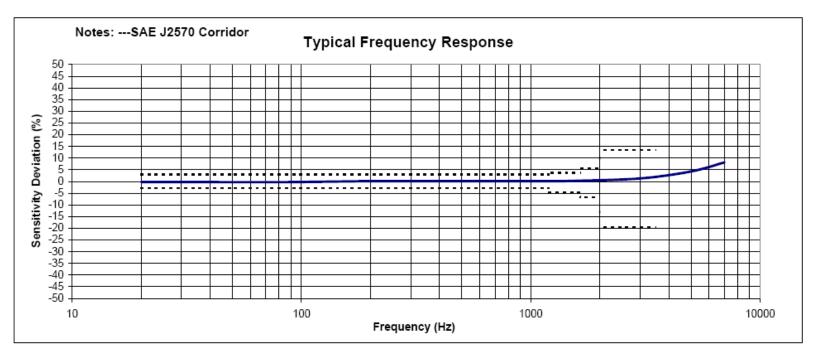
Parameters DYNAMIC Range(g) Sensitivity (mV/g) ¹ Frequency Response (Hz) Resonant Frequency (Hz) Damping Ratio Shock Limit (g) Non-Linearity (% of reading) Transverse Sensitivity (%)	±50 2 0-400 0-1000 0-1400 4000 0.5 5000 ±1 <3	±100 0.9 0-500 0-1200 0-1500 6000 0.5 5000 ±1 <3	±200 0.8 0-600 0-1400 0-1900 8000 0.5 5000 ±1 <3	±500 0.4 0-800 0-2000 0-2800 15000 0.3 10000 ±1 <3	±2000 0.15 0-3000 0-5000 0-7000 26000 0.05 10000 ±1 <3	±6000 0.10 0-3000 0-5000 0-7000 26000 0.05 10000 ±1 <3	Notes ± 2% ± ½dB ± 1dB Typical <1% Option
ELECTRICAL Zero Acceleration Output (m Excitation (Vdc) Input Resistance (Ω) Output Resistance (Ω) Insulation Resistance (M Ω) Residual Noise (μ V RMS) Ground Isolation	2 to 10 2400-600 2400-600 >100 <10	-	rface				<±10mV Option @100Vdc
ENVIRONMENTALThermal Zero Shift (%FSO/°C)±0.04Thermal Sensitivity Shift (%/°C)-0.20 ±Operating Temperature (°C)-40 to -Storage Temperature (°C)-40 to -HumidityEpoxy		21					From 0 to +50℃ From 0 to +50℃
Cable (Integral 30 Foot Cable) 4x #32 AV Weight (grams) 1.0		Aluminum NG Conductors PFA Insulated, Braided Shield, TPE Jacket x 3/16" Socket Head Cap Screws					Cable Not Included Torque 3 lb-in
Calibration supplied: CS-FREQ-0100		NIST Traceable Amplitude Calibration from 20Hz to ± 1 dB 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 Mounti 3-Channel Pred Auto-Zero Inlir	cision Low Noise	e DC Amplifier			

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Model 64B Accelerometer

performance specifications



ordering info

PART NUMBERING Model Number+Range+Cable Length+Options

64B-GGGG-CCCT-ZZZ

Ι

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- I I I___Options
 - I I____1% Transverse Sensitivity when "T" is present
- L____Cable (360 is 360 inches) Range (0100 is 100 g)

Example: 64B-2000-360 Model 64B, 2000g, 360" (30ft) Cable), No Options.

Optional	Dash Numbers
-001	5Vdc Calibration
-004	ZMO <10mV
-005	2Vdc Calibration