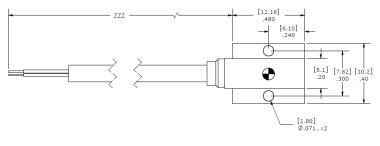
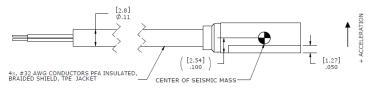


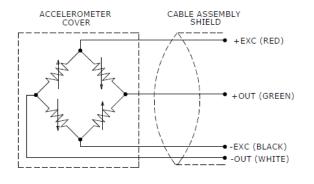




# **DIMENSIONS**







# **MODEL 64B ACCELEROMETER**

## **SPECIFICATIONS**

- DC Response Accelerometer
- Durable Low Noise Cable
- Environmentally Sealed
- 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.

### **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</li>

# **APPLICATIONS**

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

## PERFORMANCE SPECIFICATIONS

All values are typical at  $\pm 24^{\circ}$ C, 80Hz and 10Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters							Maria
DYNAMIC Range(g)	±50	±100	±200	±500	±2000	±6000	Notes
Sensitivity (mV/g) <sup>1</sup>	2	0.9	0.8	0.4	0.15	0.10	
Frequency Response (Hz)	0-400	0-500	0-600	0-800	0-3000	0-3000	± 2%
	0-1000	0-1200	0-1400	0-2000	0-5000	0-5000	± ½dB
Resonant Frequency (Hz)	0-1400 4000	0-1500 6000	0-1900 8000	0-2800 15000	0-7000 26000	0-7000 26000	± 1dB
Damping Ratio	0.5	0.5	0.5	0.3	0.05	0.05	Typical
Shock Limit (g)	5000	5000	5000	10000	10000	10000	, y prodi
Non-Linearity (% of reading)	±1	±1	±1	±1	±1	±1	
Transverse Sensitivity (%)	<3	<3	<3	<3	<3	<3	<1% Option
ELECTRICAL							
Zero Acceleration Output (mV)	<±25						<±10mV Option
Excitation (Vdc)	2 to 10						
Input Resistance (Ω)	2400-6000						
Output Resistance (Ω)	2400-6000						Q400V41
Insulation Resistance (MΩ) Residual Noise (μV RMS)	>100 <10						@100Vdc
Ground Isolation	Isolated from mounting surface						
5.55.45 .55.455 .55.455 .55.455 .55.455 .55.455 .55.455 .55.455 .55.455 .55.455 .55.455 .55.455 .55.455 .55.455							
ENVIRONMENTAL	±0.04 -0.20 ±0.05 -40 to +121 -40 to +121						
Thermal Zero Shift (%FSO/°C)							From 0 to +50°C
Thermal Sensitivity Shift (%/°C) Operating Temperature (°C)							From 0 to +50°C
Storage Temperature (°C)							
Humidity	Epoxy Sealed, IP65						
PLIVOIO AL							
PHYSICAL Case & Cover Material	Anodized Aluminum						
Cable (Integral 30 Foot Cable)	4x #32 AWG Conductors PFA Insulated, Braided Shield, TPE Jacket						
Weight (grams)							Cable Not Included
Mounting	2x #0-80 x 3/16" Socket Head Cap Screws						Torque 3 lb-in

<sup>&</sup>lt;sup>1</sup> Output is ratiometric to excitation voltage

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±1dB Frequency Limit

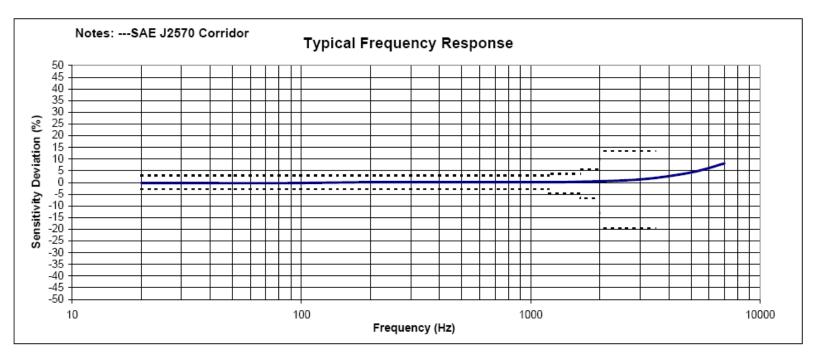
Supplied accessories: AC-A02053 2x #0-80 (3/16 length) Socket Head Cap Screw, 2x #0 Washer, 1x Allen Key

Optional accessories: MTG-E4 Triaxial Mounting Block

121 3-Channel Precision Low Noise DC Amplifier

140A Auto-Zero Inline Amplifier

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## ORDERING INFORMATION

64B-GGGG-CCCT-ZZZ
Optional Dash Numbers
-001 5Vdc Calibration

Example: 64B-2000-360

PART NUMBERING

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

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Model Number+Range+Cable Length+Options

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