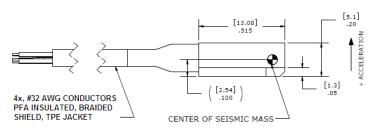
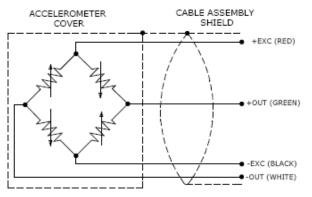




[4.8] [7.62] [10.2] .19 .300 .40 [1.80] 2x, Ø.071





MODEL 64 ACCELEROMETER

SPECIFICATIONS

- **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.

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

APPLICATIONS

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

PERFORMANCE SPECIFICATIONS

All values are typical at ±24°C, 80Hz and 10Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Range(g) Sensitivity (mV/g) ¹ Frequency Response (Hz)	±50 2 0-400 0-1000 0-1400	±100 0.9 0-500 0-1200 0-1500	±200 0.8 0-600 0-1400 0-1900	±500 0.4 0-800 0-2000 0-2800	±2000 0.15 0-3000 0-5000 0-7000	±6000 0.10 0-3000 0-5000 0-7000	hotes ±2% (±3% for 2000g/6000g) ±½dB (±7% for 2000g/6000g) ±1dB (±13% for 2000g/6000g)
Resonant Frequency (Hz) Damping Ratio Shock Limit (g) Non-Linearity (% of reading)	4000 0.5 5000 ±1	6000 0.5 5000 ±1	8000 0.5 5000 ±1	15000 0.3 10000 ±1	26000 0.05 10000 ±1	26000 0.05 10000 ±1	Typical
Repeatability (Equiv. g) Transverse Sensitivity (%)	<0.2 <3	<0.2 <3	<0.2 <3	<0.2 <3	<0.2 <3	<0.2 <3	After full scale shock <1% Option
ELECTRICAL Zero Acceleration Output (mV) Excitation (Vdc) Input Resistance (Ω) Output Resistance (Ω) Insulation Resistance (M Ω) Residual Noise (μ V RMS) Ground Isolation	<±25 2 to 10 2400-6000 2400-6000 >100 <10 Isolated from mounting surface						<±10mV Option @100Vdc
ENVIRONMENTAL Thermal Zero Shift (%FSO/°C) Thermal Sensitivity Shift (%/°C) Operating Temperature (°C) Storage Temperature (°C) Humidity	±0.04 -0.20 ±0.05 -40 to +121 -40 to +121 Epoxy Sealed, IP61						From 0 to +50°C From 0 to +50°C
PHYSICAL Case & Cover Material Cable (Integral 30 Foot Cable) Weight (grams) Mounting	4x #32 A Jacket 1.0	WG Condu	n Case, Brauctors PFA	Cable Not Included Torque 3 lb-in			
Mounting	2x #0-80 x 3/16" Socket Head Cap Screws						Torque o ID-III

¹ Output is ratiometric to excitation voltage

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

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

MTG-E4 Optional accessories: Triaxial Mounting Block

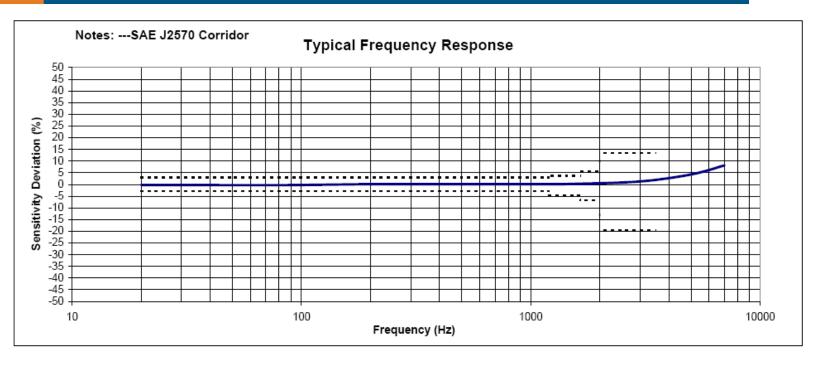
> 121 3-Channel Precision Low Noise DC Amplifier

140A Auto-Zero Inline Amplifier

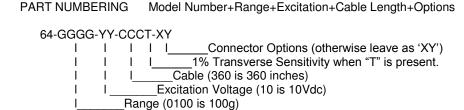
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SENSOR SOLUTIONS /// Model 64 Rev C



ORDERING INFORMATION



Example: 64-2000-10-360-XY

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

TE.com/sensorsolutions

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