



SPECIFICATIONS

- Triaxial Accel, DC Response
- Durable Low Noise Cable
- Reliable Performance
- SAE J2570 Compliant

The Model 68C Accelerometer is a small, compact triaxial device designed for vehicle impact and road testing. The unit incorporates three replaceable sensing modules with mechanical overload stops that provide high shock protection in rugged applications. The model 68C accelerometer is compliant with SAE-J211 specifications for anthropomorphic dummy instrumentation. The model 68CM1 has a cover installed for additional protection.

FEATURES

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- ±100g to ±2000 g Ranges
- 2-10 Vdc Excitation
- Temperature Compensation
- Mechanical Overload Stops
- Replaceable Sensors
- Optional Cover
- WorldSID Approved

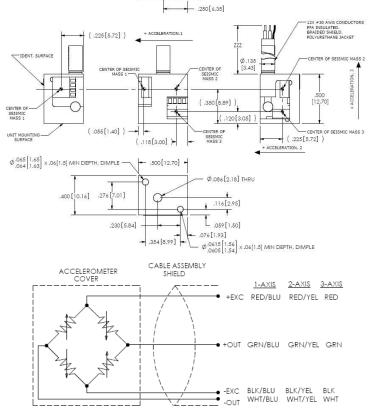
APPLICATIONS

- Crash Testing
- Impact Testing
- Off-Road Testing
- Road Testing
- Dummy Instrumentation



DIMENSIONS

CE

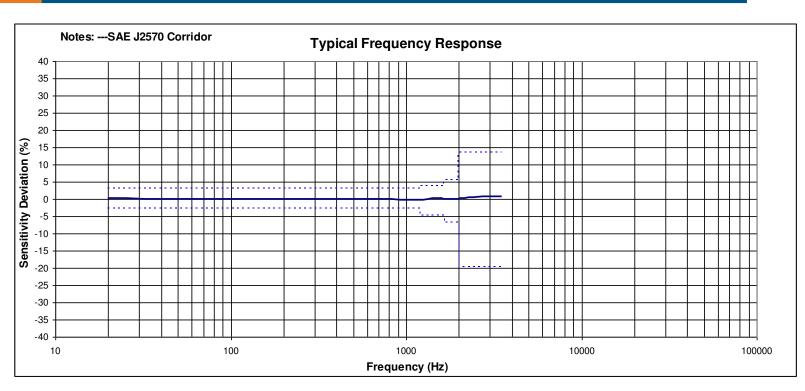


PERFORMANCE SPECIFICATIONS

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 DYNAMIC Range(g) Sensitivity (mV/g) ¹ Frequency Response, 3 <i>A</i> Frequency Response, 1 & Resonant Frequency (Hz) Damping Ratio Shock Limit (g) Non-Linearity (% FSO) Transverse Sensitivity (%	& 2 Axis (Hz)	2 0 4 0 5 ±	100 .0 -1000 -700 000 .5 000 1 3	±500 0.45 0-2000 0-1400 11,000 0.3 5000 ±1 <3	±2000 0.15 0-4000 0-3000 26,000 0.05 5000 ±1 <3	Notes ±5% ±5% Typical Of Reading	
ELECTRICAL Zero Acceleration Output (mV) Excitation Voltage (Vdc) Input Resistance Output Resistance (Ω) Insulation Resistance (M Ω) Residual Noise (μ V RMS) Ground Isolation		<±50 2 to 10 2400-6000 2400-6000 >100 <10 Isolated from Mounting Surface			@100Vdc		
ENVIRONMENTAL Thermal Zero Shift (%FSO/°C) Thermal Sensitivity Shift (%/°C) Operating Temperature (°C) Storage Temperature (°C) Humidity		±0.05 -0.20 ±0.05 -20 to +85 -40 to +90 Epoxy Sealed, IP61 (M1 option)				From 0 to +50°C From 0 to +50°C	
PHYSICAL Case Material Cable Weight (grams) Mounting (Screw) ¹ Output is ratiometric to excitation voltage		Stainless Steel12x #30 AWG Conductors PFA Insulated, Braided Shield, PU Jacket9.0Cable not includedM2 x 0.4, 16mm Length, SuppliedTorque 3 lb-in					
Calibration supplied:	CS-FREQ-0100	NIST Traceable Amplitude Calibration from 20Hz to 3500Hz					
Supplied accessories:	AC-A02591		1x M2 x 0.4 (16mm length) Phi	llips Pan Head Screw	& Washer	
Optional accessories: 121 140A			3-Channel Precision Low Noise DC Amplifier Auto-Zero Inline Amplifier				

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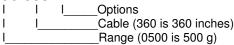


ORDERING INFORMATION



MBERING Model Number+Range+Cable Length+Options

68C-GGGG-CCC-ZZ



Optional Dash Numbers -01 5Vdc Calibration

-03 3.3Vdc Calibration

Example: 68C-2000-360 (68CM1 includes cover at no extra cost) Model 68C, Standard Configuration: 2000g, 360" (30ft) cable

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