Model 68C Accelerometer



Triaxial Accel, DC Response Durable 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.



dimensions

.080 [2.03]

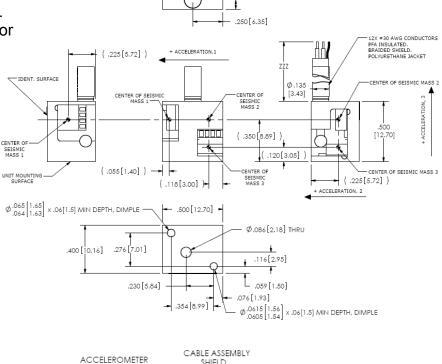
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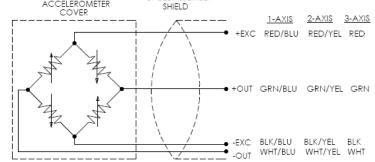


- ±500g & ±2000 g Ranges
- 2-10 Vdc Excitation
- Temperature Compensation
- Mechanical Overload Stops
- Replaceable Sensors
- Optional Cover

APPLICATIONS

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





Model 68C 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.

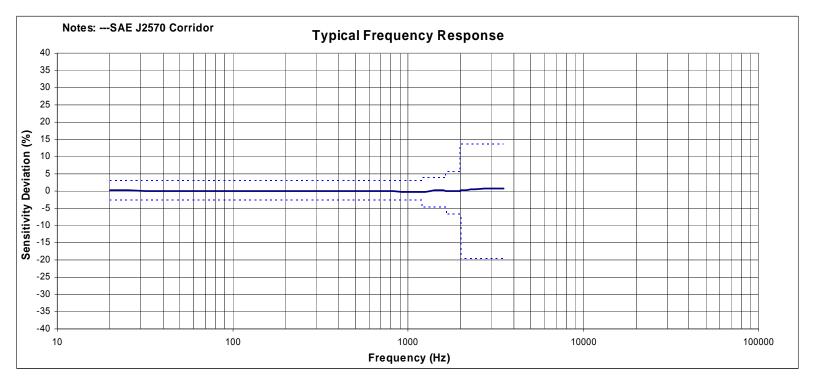
Parameters DYNAMIC Range(g) Sensitivity (mV/g) Frequency Response, 3 Axis (Hz) Frequency Response, 1 & 2 Axis (Hz) Resonant Frequency (Hz) Damping Ratio Shock Limit (g) Non-Linearity (% FSO) Transverse Sensitivity (%)	±500 0.45 0-2000 0-1400 11,000 0.3 5000 ±1 <3	±2000 0.15 0-4000 0-3000 26,000 0.05 5000 ±1 <3	Notes Ratiometric to Excitation Voltage ±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 Mountin	<±50 2 to 10 2400-6000 2400-6000 >100 <10 ng Surface	@50Vdc	
ENVIRONMENTAL Thermal Zero Shift (%FSO/°C) Thermal Sensitivity Shift (%/°C) Operating Temperature (°C) Storage Temperature (°C) Humidity	±0.05 ±0.1 -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)	Stainless Steel #30 AWG Conductor 9.0 M2 x 0.4, 16mm Len	rs, Braided Shield, PU Jacket gth, Supplied	Cable not included Torque 3 lb-in	
Calibration supplied: CS-FREQ-0	100 NIST Traceable An	NIST Traceable Amplitude Calibration from 20Hz to 3500Hz		
Supplied accessories: AC-A02591	1x M2 x 0.4 (16mm	1x M2 x 0.4 (16mm length) Phillips Pan Head Screw & Washer		
Optional accessories: 101	Three Channel DC	Three Channel DC Signal Conditioner Amplifier		

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performance specifications



ordering info

PART NUMBERING

Model Number+Range+Cable Length

68C-GGGG-CCC Т

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Cable (360 is 360 inches) _Range (0500 is 500 g)

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

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