

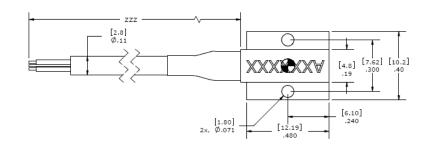
DC Response Accelerometer Durable Low Noise Cable Small Package SAE J2570 Compliant

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.

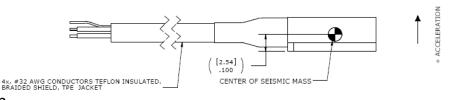
64B 2000

dimensions



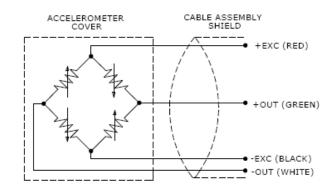
FEATURES

- 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
 - Auto
 - Truck
 - Recreational Vehicles
- Shock Testing



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							Notes
Range(g)	±50	±100	±200	±500	±2000	±6000	
Sensitivity (mV/g) ¹	2	0.9	8.0	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	± 5%
	0-1400	0-1500	0-1900	0-2800	0-7000	0-7000	± 1dB
Resonant Frequency (Hz)	4000	6000	8000	15000	26000	26000	
Damping Ratio	0.5	0.5	0.5	0.3	0.05	0.05	Typical
Shock Limit (g)	10000	10000	10000	10000	10000	10000	
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	<±25	<±25	<±25	<±25	<±25	<±10mV Option
Excitation (Vdc)	2 to 10	2 to 10	2 to 10	2 to 10	2 to 10	2 to 10	<=TOTTV OPLION
Input Resistance (Ω)	2400-6000	2400-6000	2400-6000	2400-6000	2400-6000	2400-6000	
Output Resistance (Ω)	2400-6000	2400-6000	2400-6000	2400-6000	2400-6000	2400-6000	
Insulation Resistance (M Ω)	>100	>100	>100	>100	>100	>100	@50Vdc
Residual Noise (µV RMS)	<10	<10	<10	<10	<10	<10	@30 vac
Ground Isolation		mounting surf		~10	~10	~10	
Ground isolation	isolated iron	i inounting sum	ace				
ENVIRONMENTAL							
Thermal Zero Shift (%FSO/°C)	±0.04						From 0 to +50°C
Thermal Sensitivity Shift (%/°C)	±0.1						From 0 to +50°C
Operating Temperature (°C)	-40 to +121						
a: ± ' ((a) '							

Humidity **PHYSICAL**

Parameters

Case & Cover Material

Storage Temperature (°C)

Anodized Aluminum Cable (Integral 30 Foot Cable)

Weight (grams)

4x #32 AWG Conductors Teflon Insulated, Braided Shield, TPE Jacket

Mounting 2x #0-80 x 3/16" Socket Head Cap Screws

-40 to +121 Epoxy Sealed, IP61

Cable Not Included

Torque 3 lb-in

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

Three Channel DC Signal Conditioner Amplifier Optional accessories: 101

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ordering info

PART NUMBERING	Model Number+Range+Cable Length+Options	北京汇润科贸有限公司		
64B-GGGG-CCCT-ZZZ		电话: +86 010 5601 8989		
	IOptions 1% Transverse Sensitivity when "T" is present.	+86 010 5601 7979		
I	Cable (360 is 360 inches) _Range (0100 is 100 g)	传真: + 86 010 5885 7266 邮箱: <u>sales@aq315.com</u>		

Example: 64B-2000-360

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

Output is ratiometric to excitation voltage