Model 64C Accelerometer





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

The Model 64C 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 64C is compliant with SAE J211 standards for anthropomorphic dummy instrumentation.

FEATURES

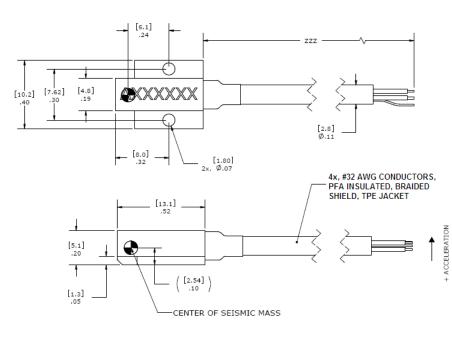
- Piezoresistive MEMS Sensor
- ±50g to ±6,000g Ranges
- 2-10 Vdc Excitation
- -40 to +121°C Temp Range
- Low Noise Jacketed Cable
- 1% Transverse Sensitivity Option
- <±25 mV Zero Offset

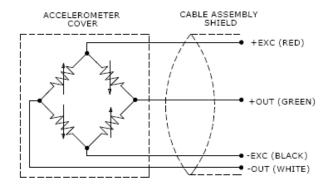
APPLICATIONS

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



dimensions





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performance specifications

All values are typical at ±24°C, 100 Hz and 10Vdc 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.

i arameters							
DYNAMIC							Notes
Range(g)	±50	±100	±200	±500	±2000	±6000	
Sensitivity (mV/g) 1	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
	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)	5000	5000	5000	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						<±10mV Option

Parameters

Zero Acceleration Output (mV) $<\pm25$ Excitation (Vdc) 2 to 10 Input Resistance (Ω) 2400-6000 Output Resistance (Ω) 2400-6000 Insulation Resistance (MΩ) >100

Residual Noise (µV RMS)

Ground Isolation Isolated from mounting surface

ENVIRONMENTAL

Thermal Zero Shift (%FSO/°C) ±0.04 Thermal Sensitivity Shift (%/°C) -0.20 ±0.05 Operating Temperature (°C) -40 to +121 -40 to +121 Storage Temperature (°C)

Humidity Epoxy Sealed, IP61

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

@100Vdc

From 0 to +50°C

From 0 to +50°C

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

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

Optional accessories: MTG-E2 Triaxial Mounting Block

3-Channel Precision Low Noise DC Amplifier 121

140 Auto-Zero Inline Amplifier

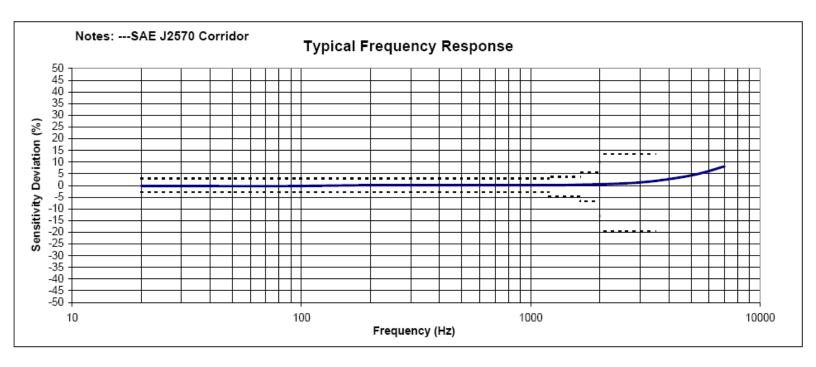
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Output is ratiometric to excitation voltage

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performance specifications



ordering info

PART NUMBERING Model Number+Range+Cable Length+Options

64C-GGGG-CCCT-ZZZ Optional Dash Numbers

I I I ____Options -001 5Vdc Calibration

I I ____1% Transverse Sensitivity when "T" is present. -004 ZMO <10mV

I ____Cable (360 is 360 inches) -005 2Vdc Calibration

Example: 64C-2000-360

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

Range (0100 is 100g)

联系方式



电子邮箱:sales@bill-well.com