SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MA-LL Model 64 Accelerometer



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 temperature range from 0 to +50° C. A slight amount of internal gas damping provides outstanding shock survivability and a flat amplitude/phase response up to 7kHz. The Model 64 is compliant with SAE J211 standards for anthropomorphic dummy instrumentation.

FEATURES

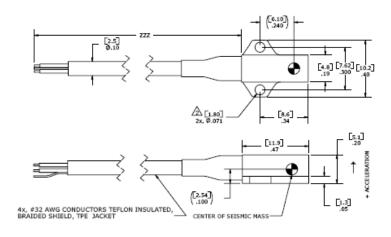
- 2nd GEN MEMS Sensing Element
- ± 50 to ±6,000 g Ranges
- 2-10 Vdc Excitation for Maximum Flexibility
- 0-50 °C Temperature Range
- High Impact Jacketed Cable
- 1% Transverse Sensitivity Available
- <± 25 mV Zero Offset

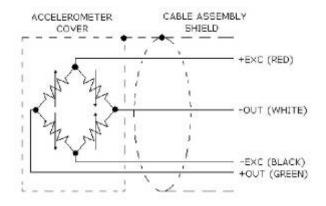
APPLICATIONS

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



dimensions





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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) Sensitivity (mV/g)	±50 0.2	±100 0.9	±200 0.5	±500 0.4	±2000 0.15	±6000 0.05	
Frequency Response (Hz)	0.2 0-400 0-1000 0-1400	0-500 0-1200 0-1500	0-600 0-1500 0-2100	0-800 0-2000 0-2800	0-2000 0-5000 0-7000	0-2000 0-5000 0-7000	± 2% ± 5% ± 1 dB
Natural Frequency (Hz) Non-Linearity (% of reading) Transverse Sensitivity (%)	4000 ±1 <3	6000 ±1 <3	8000 ±1 <3	15000 ±1 <3	26000 ±1 <3	26000 ±1 <3	
Thermal Zero Shift (%FSO/°C) Thermal Sensitivity Shift (%/°C)	±0.04 ±0.1	±0.04 ±0.1	±0.04 ±0.1	±0.04 ±0.1	±0.04 ±0.1	±0.04 ±0.1	From 0 to +50°C From 0 to +50°C
ELECTRICAL							
Zero Acceleration Output (mV) Excitation (Vdc) Input Resistance	<±25 2 to 10 3500-4800	<±25 2 to 10 3500- 4800	<±25 2 to 10 3500- 4800	<±25 2 to 10 3500- 4800	<±25 2 to 10 3500- 4800	<±25 2 to 10 3500- 4800	
Output Resistance (Ω)	1700-4800	1700- 4800	1700- 4800	1700- 4800	1700- 4800	1700- 4800	
Insulation Resistance (M Ω) Ground Isolation	>100	>100	>100	>100	>100	>100	@50Vdc Cable shield to case.
ENVIRONMENTAL Shock Limit (g) Operating Temperature (°C)	10000	10000	10000	10000	10000	10000	-40 to +121
PHYSICAL Case Material / Cover Material Cable (Integral 30 Foot Cable)	Anodized Aluminum / Brass						4 x 32 AWG
Weight (grams) Mounting	1	1 1 1 1 1 1 1 1 1 2x 0=80 x 3/16 socket head cap screws					Conductors Cable Not Included Torque 3 lb-in

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ordering info

PART NUMBERING Model Number+Range+Excitation+Cable Length+Options **Options** 1% Transverse Sensitivity when "T" is present. Cable (360 is 360 inches) Range (0100 is 100 g)

Example: 64-2000-360

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

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