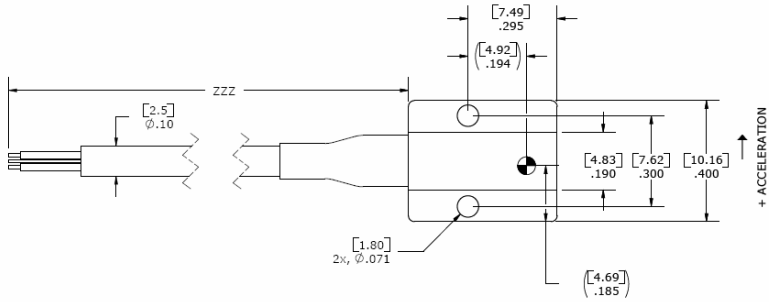
Model 64L Accelerometer

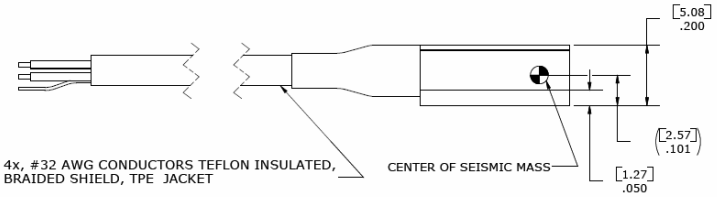
DC Response
Durable Cable
Small Package
Reliable Performance

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

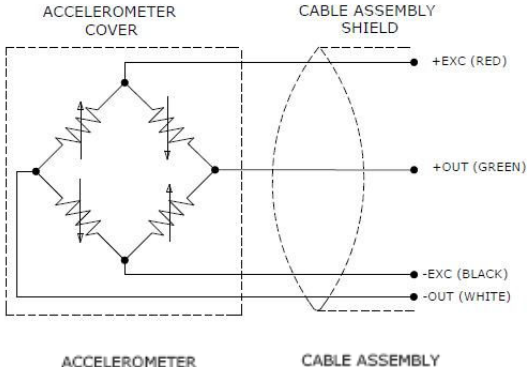
dimensions





FEATURES

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



APPLICATIONS

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

32 Journey Ste. 150 Aliso Viejo, CA 92656 949-716-5377 t&m@meas-spec.com

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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	±1000	±2000	±6000	
Sensitivity (mV/g)	2.0	0.9	0.9	0.4	0.4	0.15	0.1	
Frequency Response (Hz)	0-400	0-500	0-800	0-1200	0-2000	0-2000	0-2000	± 2%
	0-1000	0-1200	0-2000	0-3000	0-3500	0-3500	0-3500	± 5%
	0-1400	0-1500	0-2800	0-4200	0-4500	0-4500	0-4500	± 1 dB
Natural Frequency (Hz)	4000	6000	8000	15000	15000	26000	26000	
Non-Linearity (% of reading)				±1				
Transverse Sensitivity (%)				<3				1% Available
Thermal Zero Shift (%FSO/°C)				±0.04				From 0 to +50°C
Thermal Sensitivity Shift (%/°C)				±0.1				From 0 to +50°C
ELECTRICAL								
Zero Acceleration Output (mV)				<±25				
Excitation (Vdc)				2 to 10				
Input Resistance (Ω)				2400-5000				
Output Resistance (Ω)				2400-4800				
Insulation Resistance (MΩ)				>100				@50Vdc
Ground Isolation								Isolated from mounting surface.
ENVIRONMENTAL								
Shock Limit (g)				10,000				
Operating Temperature (°C)								-40 to +121
PHYSICAL								
Case Material / Cover Material				Anodized Aluminum				
Cable (Integral 30 Foot Cable)								4 x 32 AWG Conductors
Weight (grams)				1				Cable Not Included
Mounting				2x 0=80 x 3/16 socket head cap screws				Torque 3 lb-in

ordering info

PART NUMBERING Model Number+Range+Excitation+Cable Length+Options

64L-GGGG-CCCT-ZZZ

I I I I_____Options
I I I_____1% Transverse Sensitivity when "T" is present.
I I_____Cable (360 is 360 inches)
I_____Range (0100 is 100 g)

Example: 64L-2000-360

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

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