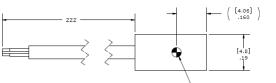




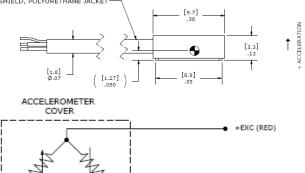
DIMENSIONS



CENTER OF SEISMIC MASS

+OUT (GREEN)

-EXC (BLACK)
-OUT (WHITE)



MODEL 52M30 ACCELEROMETER

SPECIFICATIONS

- Small Size, Light Weight
- Jacketed & Shielded Cable
- Silicon MEMS Technology
- ±50g to ±6000g Ranges

The Model 52M30 accelerometer has an advanced piezoresistive MEMS sensing element which offers excellent dynamic range and stability. This unit features a full bridge output with an operating temperature range from -40 to +90°C and measurement ranges of \pm 50g to \pm 6,000g. A slight amount of gas damping provides outstanding shock survivability and a flat amplitude response to 7kHz.

FEATURES

- 2-10 Vdc Excitation
- ±50g to ±6,000g Ranges
- DC Response
- ±10,000g Shock Protection
- Transverse Sensitivity <3%
- 26kHz Resonant Frequency
- Linearity ±1%
- Output Ratiometric to Excitation

APPLICATIONS

- Automotive crash testing
- High impact research
- Biomechanical studies
- Shock testing

PERFORMANCE SPECIFICATIONS

All values are typical at $\pm 24^{\circ}$ C, 80Hz and 10Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Range(g) Sensitivity (mV/g) ¹ Frequency Response (Hz) Resonant Frequency (Hz) Non-Linearity (% FSO) Transverse Sensitivity (%) Shock Limit (g)		±50 2.0 0-400 0-1000 0-1400 4000 ±1 <3 5000	±200 0.9 0-600 0-1400 0-1900 8000 ±1 <3 5000	±500 0.4 0-800 0-2000 0-2800 15000 ±1 <3 5000	±2000 0.15 0-2000 0-5000 0-7000 26000 ±1 <3 5000	±6000 0.10 0-3000 0-5000 0-7000 26000 ±1 <3 10000	Notes ±2% ±5% ±1dB
ELECTRICAL Zero Acceleration Output (mV) Excitation (Vdc) Input Resistance Output Resistance (Ω) Insulation Resistance (M Ω) Ground Isolation		<±50 2 to 10 2400-6000 2400-6000 >100 Isolated from mounting surface					@100Vdc
ENVIRONMENTAL Thermal Zero Shift (%FSO/°C(%FSO/°F))* Thermal Sensitivity Shift (%/°C(%/°F))* Operating Temperature (°C) Storage Temperature (°C) Humidity		±0.05 (±0.03) -0.20 ±0.05 (-0.11 ±0.03) -40 to +90 -40 to +90 Epoxy Sealed, IP61					0°C to +50°C 0°C to +50°C
PHYSICAL Case Material Cable (Integral 30 Foot Cable) Weight (grams) Mounting ¹ Output is ratiometric to excitation voltage		Anodized Aluminum 4x #32 AWG PFA Insulated, Braided Shield, PU Jacket 0.5 Adhesive					Cable not included
Calibration supplied:	CS-SENS-0100	NIST Traceable Amplitude Calibration at 80Hz					
Optional accessories:	AC-D02346 121 140A	Triaxial Mounting Block 3-Channel Precision Low Noise DC Amplifier Auto-zero Inline Amplifier					

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ORDERING INFORMATION

PART NUMBERING Model Number+Range+Cable Length+Options

52M30-GGGG-CCC-ZZ 1

1

I	IOptions
I	Cable (360 is 360 inches)
	Range (0500 is 500 g)

Optional Dash Numbers 5Vdc Calibration -01 -02 2Vdc Calibration

Example: 52M30-2000-360 Model 52M30, 2000g Full Scale Range, 360 inches cable, No Options



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