

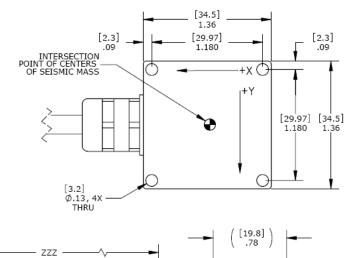
Model 4332 Accelerometer

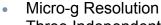
MEMS Triaxial Accelerometer Temperature Calibrated IP68 Protection Low Noise, High Resolution

The Model 4332 is a low noise triaxial accelerometer offering both static and dynamic response. The accelerometer is packaged in an anodized aluminum housing and is offered in $\pm 2g \& \pm 5g$ range. The model 4332 features an integral cable and is certified to IP68 protection. The accelerometer incorporates a 50Hz LP filter and an operating temperature range of -40°C to +85°C.



dimensions



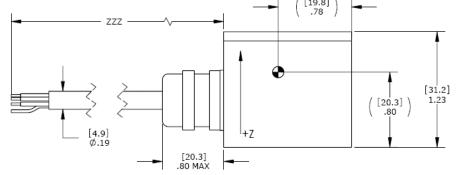


FEATURES

- Three Independent Circuits
- Low Current Consumption
- ±2g & ±5g Dynamic Range
- DC Response
- Temperature Compensation

APPLICATIONS

- Transportation Measurements
- Structural Monitoring
- Bridge Monitoring
- Low Frequency Applications
- Motion Analysis





Model 4332 Accelerometer

performance specifications

All values are typical at +24°C, 10Hz and 12Vdc 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 Range (g) Sensitivity (mV/g) -3dB Cutoff Frequency (Hz) Rolloff Above Cutoff Frequer Natural Frequency (Hz) Non-Linearity & Hysteresis (' Transverse Sensitivity (%) Damping Ratio Shock Limit (g)	ncy (dB/dec) - %FSO) -	±2 1000 50 +20/-0 -40 700 ±0.5 <3 0.7 5000	±5 400 50 +20/-0 -40 700 ±0.5 <3 0.7 5000	Notes ±10% <2 Typical
ELECTRICAL Zero Acceleration Output (V) Excitation Voltage (Vdc) Excitation Current (mA) Full Scale Output Voltage Sw Output Impedance (Ω) Insulation Resistance (MΩ) Turn On Time (msec) Residual Noise (μg) Ground Isolation	wing (Vdc)	2.5 ±0.1 5 to 30 <15 0.5 to 4.5 <100 >50 <100 80 Isolated from Mount	2.5 ±0.1 5 to 30 <15 0.5 to 4.5 <100 >50 <100 50 ting Surface	@50Vdc 0.1 to 100Hz
ENVIRONMENTAL Thermal Zero Shift (%FSO/° Thermal Sensitivity Shift (%/ Operating Temperature (°C) Compensated Temperature Storage Temperature (°C)	°Ć) <u>-</u> - (°C) (±0.04 ±0.04 -40 to 85 0 to 65 -40 to 85		0 to +65°C 0 to +65°C
PHYSICAL Case Material Cable Weight (grams) Mounting Mounting Torque AWG (model 4332)	 	Anodized Aluminum PVC Insulated Leac <100 4x #4 or M3 Screws 6 Ib-in (0.7 N-m) 6x 0.14 mm ²	ds, Braided Shield, PVC Jacket	
Calibration supplied:	CS-FREQ-0100	NIST Traceable	e Amplitude Calibration from 1Hz to 100Hz	
Supplied accessories:	4x #4-40 (1 ½" length) Socket Head Cap Screw and Washer			
Optional accessories:	101	Three Channel	DC Signal Conditioner Amplifier	

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schematic

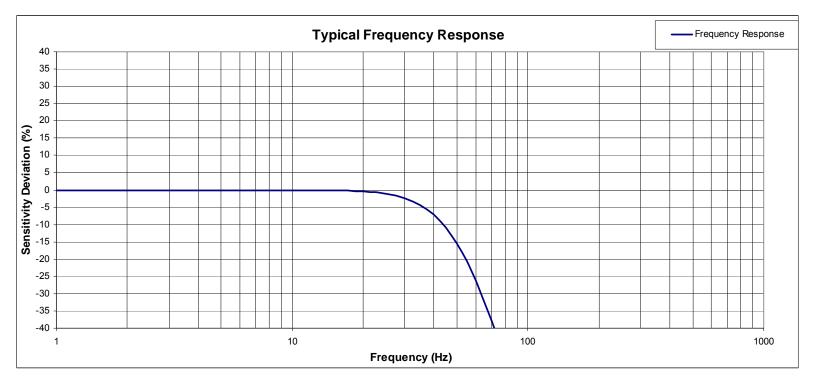
4332 Schematic

WIRE DESIGNATIONS: WHITE = INPUT (EXCITATION) BROWN = OUTPUT X AXIS GREEN = OUTPUT Y AXIS PINK = OUTPUT Z AXIS YELLOW = COMMON (CIRCUIT GROUND) GRAY = NO CONNECTION



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ordering info

