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 ±2g & ±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.

FEATURES

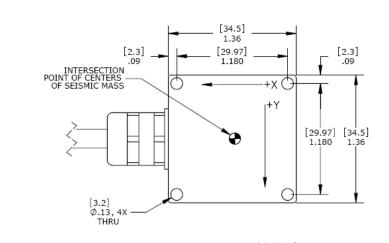
- Low Noise, High Signal-to-Noise
- Three Independent Circuits
- Low Current Consumption
- ±2g & ±5g Dynamic Range
- DC Response
- Temperature Compensation

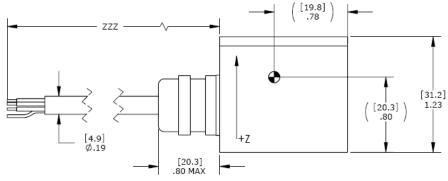
APPLICATIONS

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



dimensions





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Model 4332 Accelerometer

performance specifications

All values are typical at +24°C, 100Hz 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			Notes
Range (g)	±2	±5	
Sensitivity (mV/g)	1000	400	±10%
-3dB Cutoff Frequency (Hz)	50 +20/-0	50 +20/-0	
Rolloff Above Cutoff Frequency (dB/dec)	-40	-40	
Natural Frequency (Hz)	700	700	
Non-Linearity & Hysteresis (%FSO)	±0.5	±0.5	
Transverse Sensitivity (%)	<3	<3	<2 Typical
Damping Ratio	0.7	0.7	
Shock Limit (g)	5000	5000	
ELECTRICAL			
Zero Acceleration Output (V)	2.5 ±0.1	2.5 ±0.1	
Excitation Voltage (Vdc)	5 to 30	5 to 30	
Excitation Current (mA)	<15	<15	
Full Scale Output Voltage Swing (Vdc)	0.5 to 4.5	0.5 to 4.5	
Output Impedance (Ω)	<100	<100	
Insulation Resistance (MΩ)	>50	>50	@50Vdc
Turn On Time (msec)	<100	<100	_
Residual Noise (µg)	80	50	0.1 to 100Hz
Ground Isolation	Isolated from Mounting Surface		
ENVIRONMENTAL			
Thermal Zero Shift (%FSO/°C)	±0.04		0 to +65°C
Thermal Sensitivity Shift (%/°C)	±0.04		0 to +65°C
Operating Temperature (°C)	-40 to 85		

PHYSICAL

Compensated Temperature (°C)

Storage Temperature (°C)

Case Material Anodized Aluminum

Cable PVC Insulated Leads, Braided Shield, PVC Jacket

0 to 65

-40 to 85

Weight (grams) <10

Mounting 4x #4 or M3 Screws
Mounting Torque 6 lb-in (0.7 N-m)
AWG (model 4332) 6x 0.14 mm²

Calibration supplied: CS-FREQ-0100 NIST Traceable 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

BROWN = OUTPUT X AXIS GREEN = OUTPUT Y AXIS PINK = OUTPUT Z AXIS

YELLOW = COMMON (CIRCUIT GROUND)

GRAY = NO CONNECTION

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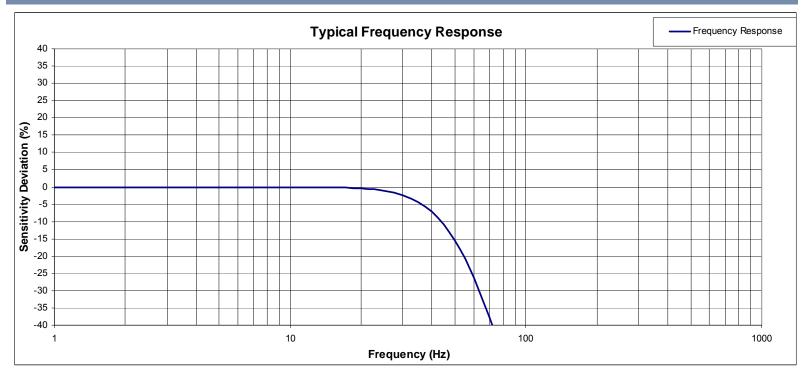
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ordering info

PART NUMBERING Model Number+Range+ Cable Length (as applicable)

Example: 4332-002-120

Model 4332, 2g, 120" Cable

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