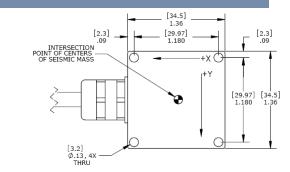
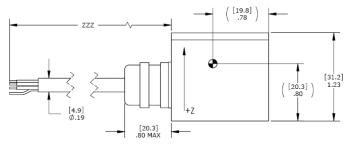




DIMENSIONS





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

MODEL 4332M3 ACCELEROMETER

SPECIFICATIONS

- 4-20mA Signal Output
- MEMS Triaxial Accelerometer
- IP68 Protection
- Low Noise, High Resolution

The Model 4332M3 is 4-20mA output MEMS triaxial accelerometer offering both static and dynamic response. The accelerometer is packaged in a corrosion resistant stainless steel housing and is offered in $\pm 2g$ to $\pm 20g$ range. **The model 4332M3** features an integral cable and is certified to IP68 protection up to 40m depth with an operating temperature range of -40°C to +85°C.

FEATURES

- Stainless Steel Housing
- Corrosion Resistant
- Three Independent Circuits
- ±2g to ±20g Dynamic Range
- DC Response
- Temperature Compensation

APPLICATIONS

- Transportation Measurements
- Structural Monitoring
- Bridge Monitoring
- Low Frequency Applications
- Submersible Measurements

PERFORMANCE SPECIFICATIONS

All values are typical at $\pm 24^{\circ}$ C, 10Hz and 12Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Model Number Range (g) Sensitivity (mA/g) Frequency Response (Hz) -3dB Cutoff Frequency (Hz Rolloff Above Cutoff Freque Natural Frequency (Hz) Non-Linearity & Hysteresis Transverse Sensitivity (%) Damping Ratio	ency (dB/dec)	4332M3-002 ±2 4.0 0-200 1000 -40 700 ±0.5 <3 0.7	4332M3-005 ±5 1.6 0-300 1000 -40 800 ±0.5 <3 0.7	4332M3-010 ±10 0.8 0-300 1000 -40 1000 ±0.5 <3 0.7	4332M3-020 ±20 0.4 0-300 1000 -40 1500 ±0.5 <3 0.7	Notes ±10% ±5% <2 Typical
Shock Limit (g) Residual Noise (µg RMS)		5000 25	5000 50	5000 100	5000 200	Passband
ELECTRICAL Zero Acceleration Output (π Excitation Voltage (Vdc) Quiescent Current (mA) Full Scale Span (mA) Output Impedance (Ω) Insulation Resistance (MΩ) Turn On Time (msec) Grounding		12.0 ±0.25 7 to 24 <15 4 to 20 <100 >100 <100 Case Grounde	ed, Internally Isola	ated Circuit		@100Vdc
ENVIRONMENTAL Thermal Zero Shift (%FSO/°C) Thermal Sensitivity Shift (%/°C) Operating Temperature (°C) Compensated Temperature (°C) Storage Temperature (°C) Humidity		±0.04 ±0.04 -40 to 85 0 to 65 -40 to 85 IP68, 40m Depth				0 to +65°C 0 to +65°C
PHYSICAL Case Material Cable Weight (without cable) Mounting Mounting Torque		316 Stainless Steel PVC Insulated Leads (6x 0.14 mm ²), Braided Shield, PVC Jacket 185 grams 4x #4 or M3 Screws 6 Ib-in (0.7 N-m)				
Calibration supplied:	CS-LFREQ-0	010 NIST Tra	ceable Amplitude	Calibration from	1Hz to 100Hz	
Supplied accessories:	4x #4-40 (1 1/2" length) Socket Head Cap Screw and Washer					
Optional accessories:	121	3-Channe	el Precision Low I	Noise DC Amplifi	er	

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ORDERING INFORMATION

PART NUMBERING Model Number+Range+ Cable Length

4332M3-GGG-CCC Т

Cable Length (-120 is 120 inches) Range (002 is 2g)

Example: 4332M3-002-120

Model 4332M3, 2g, 120" Cable

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