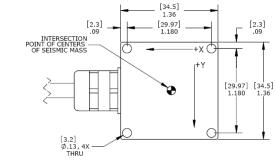
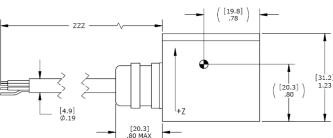


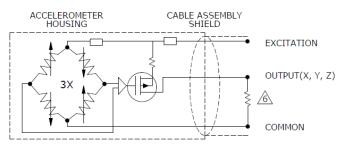




DIMENSIONS







LOAD RESISTOR(USER INSTALLED) < 250 ohms.

MODEL 4332M3 ACCELEROMETER

SPECIFICATIONS

- 4-20mA Signal Output
- **MEMS DC 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 ±2g to ±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 & Tunnel Monitoring
- Low Frequency Applications
- Submersible Measurements

WIRE DESIGNATIONS: WHITE = INPUT (EXCITATION)

WHITE = INFOT (EXCITATION)
BROWN = OUTPUT X AXIS
GREEN = OUTPUT Y AXIS
PINK = OUTPUT Z AXIS
PINK = OUTPUT Z AXIS
GREEN = COMMON (CIRCUIT GROUND)
GRAY = NO CONNECTION

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.

Parameters DYNAMIC					Notes
Model Number Range (g)	4332M3-002 ±2	4332M3-005 ±5	4332M3-010 ±10	4332M3-020 ±20	110100
Sensitivity (mA/g) Frequency Response (Hz) -3dB Cutoff Frequency (Hz) Rolloff Above Cutoff Frequency (dB/dec) Natural Frequency (Hz) Non-Linearity & Hysteresis (%FSO)	4.0 0-200 1000 -40 700 ±0.5	1.6 0-300 1000 -40 800 ±0.5	0.8 0-300 1000 -40 1000 ±0.5	0.4 0-300 1000 -40 1500 ±0.5	±10% ±5%
Transverse Sensitivity (%) Damping Ratio Shock Limit (g) Residual Noise (µg RMS)	<3 0.7 5000 25	<3 0.7 5000 50	<3 0.7 5000 100	<3 0.7 5000 200	<2 Typical Passband
ELECTRICAL Zero Acceleration Output (mA) Excitation Voltage (Vdc) Quiescent Current (mA) Full Scale Span (mA) Insulation Resistance (MΩ) Load Resistor (Ω) Turn On Time (msec) Grounding	12.0 ±0.25 7 to 24 <15 4 to 20 >100 <250 <100 Case Grounde	ed, Internally Isola	ated Circuit		@100Vdc User Installed
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 mm²), Braided Shield, PVC Jacket 185 grams 4x #4 or M3 Screws 6 lb-in (0.7 N-m)				

CS-LFREQ-0010 NIST Traceable Amplitude Calibration from 1Hz to 100Hz Calibration supplied:

Supplied accessories: 4x #4-40 (1 1/2" length) Socket Head Cap Screw and Washer

Optional accessories: 3-Channel Precision Low Noise DC Amplifier

AC-A05172 Adhesive Mounting Adaptor

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MODEL 4332M3 ACCELEROMETER

ORDERING INFORMATION

PART NUMBERING Model Number+Range+ Cable Length

4332M3-GGG-CCC

I ____Cable Length (-120 is 120 inches) I_____ Range (002 is 2g)

Example: 4332M3-002-120

Model 4332M3, 2g, 120" Cable

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