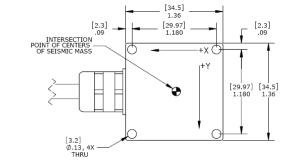
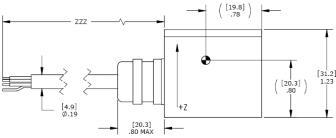
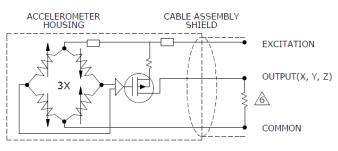




DIMENSIONS







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)

WALLE = INFOL (EXCHAINON)
BROWN = OUTPUT X AXIS
GREEN = OUTPUT Y AXIS
PINK = OUTPUT Z AXIS
YELLOW = COMMON (CIRCUIT GROUND)
GRAY = NO CONNECTION

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						Notes
Model Number		4332M3-002	4332M3-005	4332M3-010	4332M3-020	
Range (g) Sensitivity (mA/g)		±2 4.0	±5 1.6	±10 0.8	±20 0.4	±10%
Frequency Response (Hz) -3dB Cutoff Frequency (Hz)		0-200 1000	0-300 1000	0-300 1000	0-300 1000	±5%
Rolloff Above Cutoff Frequency (dB/dec)		-40	-40	-40	-40	
Natural Frequency (Hz) Non-Linearity & Hysteresis (%FSO)		700 ±0.5	800 ±0.5	1000 ±0.5	1500 ±0.5	
Transverse Sensitivity (%)	,701 OO)	<3	<3	<3	<3	<2 Typical
Damping Ratio Shock Limit (g)		0.7 5000	0.7 5000	0.7 5000	0.7 5000	
Residual Noise (µg RMS)		25	50	100	200	Passband
ELECTRICAL						
Zero Acceleration Output (mA) Excitation Voltage (Vdc)		12.0 ±0.25 7 to 24				
Quiescent Current (mA)		<15				
Full Scale Span (mA) Insulation Resistance (MΩ)		4 to 20 >100				@100Vdc
Load Resistor (Ω)		<250				User Installed
Turn On Time (msec) Grounding	<100 Case Grounded, Internally Isolated Circuit					
ENVIRONMENTAL						
Thermal Zero Shift (%FSO/		±0.04				0 to +65°C
Thermal Sensitivity Shift (%/°C) Operating Temperature (°C)		±0.04 -40 to 85				0 to +65°C
Compensated Temperature (°C)		0 to 65				
Storage Temperature (°C) Humidity		-40 to 85 IP68, 40m Depth				
PHYSICAL		,				
Case Material		316 Stainless S	Steel			
Cable Weight (without cable)	PVC Insulated Leads (6x 185 grams			mm²), Braided S	hield, PVC Jacket	
Mounting		4x #4 or M3 Screws				
Mounting Torque		6 lb-in (0.7 N-n	n)			
Calibration supplied:	CS-LFREQ-00	010 NIST Trac	NIST Traceable Amplitude Calibration from 1Hz to 100Hz			
Supplied accessories:	4x #4-40 (1 ½" length) Socket Head Cap Screw and Washer					

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.

3-Channel Precision Low Noise DC Amplifier

Adhesive Mounting Adaptor

Optional accessories:

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AC-A05172

MODEL 4332M3 ACCELEROMETER

ORDERING INFORMATION

PART NUMBERING Model Number+Range+ Cable Length

4332M3-GGG-CCC

Example: 4332M3-002-120

Model 4332M3, 2g, 120" Cable