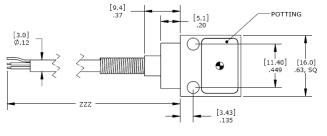
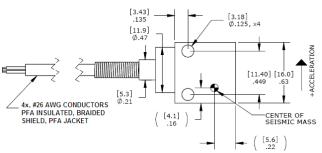
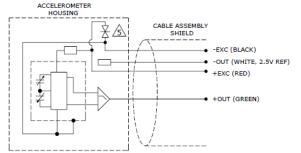




DIMENSIONS







MODEL 4623 ACCELEROMETER

SPECIFICATIONS

- MEMS Accelerometer
- DC Response, Ultra-Stable
- Advanced Temp Compensation
- Signal Conditioned Output
- Integral Strain Relief

The Model 4623 is a low frequency DC response accelerometer offering outstanding performance over a wide operating temperature range. The accelerometer is available in ranges from ± 2 to ± 100 g and incorporates an EMI/EMC protection circuitry for harsh installations. The output is signal conditioned to provide a low noise amplified signal. The model 4623 incorporates a PFA insulated cable with a rugged strain relief designed for demanding applications.

FEATURES

- ±2g to ±100g Dynamic Range
- Signal Conditioned Output
- EMI/EMC Protection Circuit
- Gas Damping
- Integral Strain Relief
- DC, Low Frequency Response
- 7 to 30Vdc Excitation Voltage

APPLICATIONS

- Harsh Applications
- Structural Testing
- Test & Instrumentation
- Performance Testing
- Transportation
- Flight Testing

PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz and 12Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters							
DYNAMIC							Notes
Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz)	±2 1000 0-150 0-400 700	±5 400 0-150 0-400 800	±10 200 0-200 0-550 1000	±25 80 0-400 0-800 1500	±50 40 0-600 0-100 4000	±100 20 0-1000 0-1400 6000	±10% ±5%¹ ±1dB
Non-Linearity (%FSO) Transverse Sensitivity (%) Damping Ratio Shock Limit (g)	±0.5 <3 0.7 5000	±0.5 <3 0.7 5000	±0.5 <3 0.7 5000	±0.5 <3 0.7 5000	±0.5 <3 0.7 5000	±0.5 <3 0.7 5000	<1 Typical
Residual Noise (µV RMS) Spectral Noise (µg/√Hz)	500 35	500 38	450 75	550 219	450 316	450 516	Passband Passband
ELECTRICAL Zero Acceleration Output (mV) Excitation Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Output Resistance (Ω) Insulation Resistance (MΩ) Turn On Time (msec)	±50 7 to 30 <5 2.5 <100 >100 <100						Differential @100Vdc
Ground Isolation	Isolated from Mounting Surface						
ENVIRONMENTAL Thermal Zero Shift (%FSO/°C) Thermal Sensitivity Shift (%/°C) Operating Temperature (°C) Storage Temperature (°C) Humidity	±0.004 ±0.010 -55 to 125 -55 to 125 Epoxy Encapsulated, IP65						Typical Typical
PHYSICAL Case Material Cable Weight (grams) Mounting	Anodized Aluminum 4x #26 AWG Conductors, PFA Insulated, Braided Shield, PFA Jacket 14 2x #4 or M3 Screws						

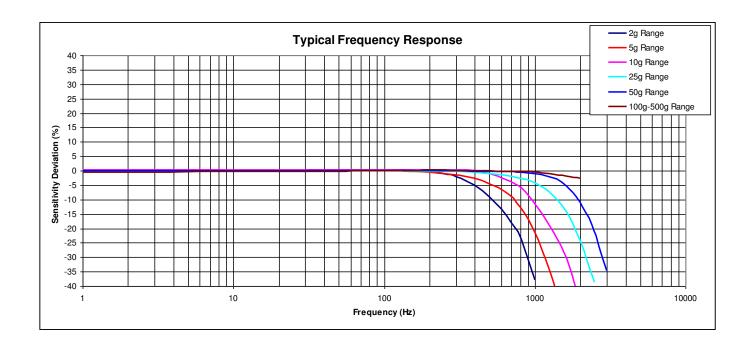
Mounting 2x #4 or M3 Screws Mounting Torque 6 lb-in (0.7 N-m)

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±5% Frequency Response Limit¹

Supplied accessories: AC-A02944 2x #4-40 (3/4 length) Socket Head Cap Screw and Washer

Optional accessories: 121 3-Channel Precision Low Noise DC Amplifier

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ORDERING INFORMATION

PART NUMBERING Model Number+Range+Cable Length

4623-GGG-ZZZ-C

I I Cable (060 is 60 inches)

I Range (025 is 25g)

Example: 4623-025-060-C

Model 4623, 25g, 060" (5ft) Cable

NORTH AMERICA

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