SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MA Model 4623 Accelerometer



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 ±500g 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 teflon insulated cable with a rugged strain relief designed for demanding applications.

FEATURES

- ±2g to ±500g Dynamic Range
- Signal Conditioned Output
- **EMI/EMC Protection Circuit**
- Gas Damping
- Integral Strain Relief
- DC, Low Frequency Response
- 7 to 30Vdc Excitation Voltage

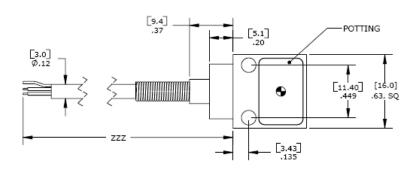
APPLICATIONS

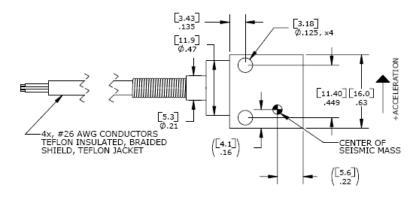
- Harsh Applications
- Structural Testing
- **Test & Instrumentation**
- Performance Testing
- **Transportation**
- Flight Testing

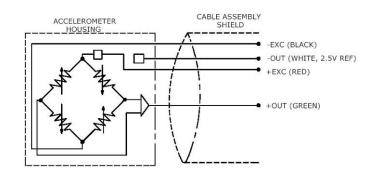




dimensions







Model 4623 Rev 2

www.meas-spec.com



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 Range (g) Sensitivity (mV/g) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Damping Ratio Shock Limit (g)	±2 1000 0-150 700 ±0.5 <3 0.7 10000	±5 400 0-150 800 ±0.5 <3 0.7 10000	±10 200 0-200 1000 ±0.5 <3 0.7 10000	±25 80 0-400 1500 ±0.5 <3 0.7 10000	±50 40 0-600 4000 ±0.5 <3 0.7 10000	±100 20 0-1000 6000 ±0.5 <3 0.7 10000	±250 10 0-1000 8000 ±0.5 <3 0.6 10000	±500 4 0-1000 10000 ±0.5 <3 0.5 10000	Notes ±5% <1 Typical
ELECTRICAL Zero Acceleration Output (mV) Excitation Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Output Resistance (Ω) Insulation Resistance (MΩ) Turn On Time (msec) Residual Noise (μV RMS) Ground Isolation	±50 7 to 30 <5 2.5 <100 >100 <100 500 Isolated	±50 7 to 30 <5 2.5 <100 >100 <100 300 from Moun	±50 7 to 30 <5 2.5 <100 >100 <100 300 nting Surfa	±50 7 to 30 <5 2.5 <100 >100 <100 350	±50 7 to 30 <5 2.5 <100 >100 <100 400	±50 7 to 30 <5 2.5 <100 >100 <100 400	±50 7 to 30 <5 2.5 <100 >100 <100 400	±50 7 to 30 <5 2.5 <100 >100 <100 400	Differential @100Vdc Passband
ENVIRONMENTAL Thermal Zero Shift (%FSO/°C) Thermal Sensitivity Shift (%/°C) Operating Temperature (°C) Compensated Temperature (°C) Storage Temperature (°C)	±0.008 ±0.010 -55 to 12 -40 to 10 -55 to 12	00	±0.008 ±0.010	±0.008 ±0.010	±0.008 ±0.010	±0.008 ±0.010	±0.008 ±0.010	±0.008 ±0.010	Typical Typical

PHYSICAL

Case Material Anodized Aluminum

Cable Teflon Insulated Leads, Braided Shield, Teflon Jacket

Weight (grams) 14

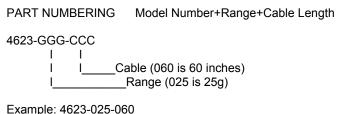
Mounting 2x #4 or M3 Screws Mounting Torque 6 lb-in (0.7 N-m)

AWG #26

Wiring color code: +Excitation = Red; -Excitation = Black; +Output = Green; -Output = White;

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.

ordering info



Model 4623, 25g, 060

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

Model 4623 Rev 2 www.meas-spec.com 05/11/2009

949-716-5377