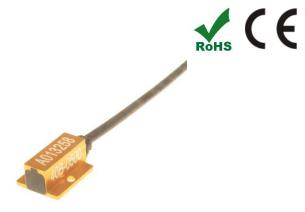
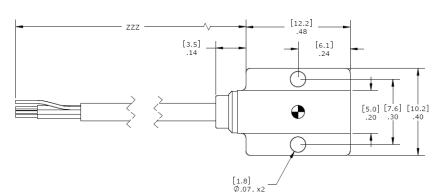
±100g to ±2000g Dynamic Range Fluid Damped, DC Response Compliant to SAE J2570 Temperature Compensated

The Model 40B Accelerometer

is a small piezoresistive accelerometer designed to be compliant with the latest SAE J211/J2570 (AUG2009) specifications. This unit features built-in mechanical stops, anodized aluminum alloy housing and flexible cable output. The sensing element is fluid damped to extend useful frequency range and reduce the adverse effect of high frequencies ringing caused by sensor resonance.

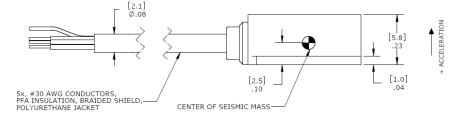


dimensions



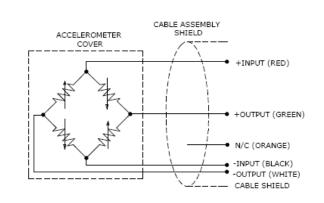
FEATURES

- Silicon Piezoresistive Elements
- ±100 to ±2,000 g Ranges
- 2-10 Vdc Excitation
- -20 to +80 °C Temperature Range
- Critically Damped Sensor
- Low Transverse Sensitivity
- <±10 mV Zero Offset



APPLICATIONS

- Safety Crash Testing
- Pedestrian Impact Testing
- Dummy Instrumentation
- Recreational Vehicles
- Shock Testing



Model 40B Accelerometer

performance specifications

All values are typical at ±24°C, 100 Hz and 10 Vdc 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.

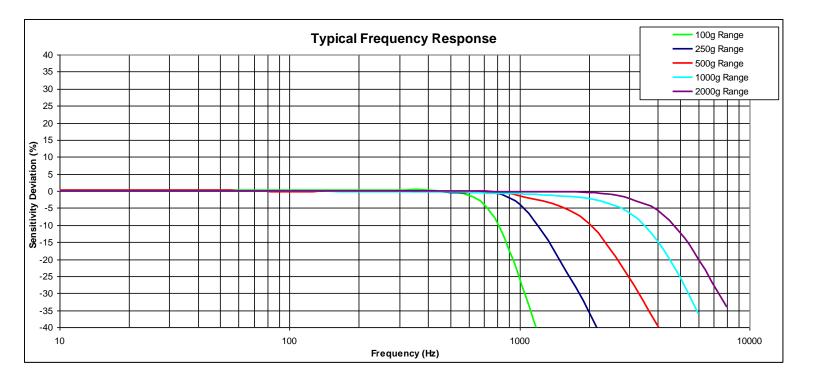
Parameters DYNAMIC Range(g) Sensitivity (mV/g) ¹ Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (% FS) Damping Ratio Transverse Sensitivity (%) Shock Limit (g)	-0100 ±100 1.5 0-400 0-675 >1500 ±1 0.7 <3 10000	-0250 ±250 0.60 0-600 0-1100 >2500 ±1 0.7 <3 10000	-0500 ±500 0.30 0-1100 0-2000 >4500 ±1 0.7 <3 10000	-1000 ±1000 0.15 0-1500 0-2700 >6000 ±1 0.7 <3 10000	-2000 ±2000 0.075 0-2500 0-4500 >10000 ±1 0.7 <3 10000	Notes @10Vdc excitation +2.5%/-8% +2.5%/-20% Typical	
ELECTRICALZero Acceleration Output (mV) $<\pm 10$ Excitation (Vdc)2 to 10Input Resistance (Ω)2000Output Resistance (Ω)1000Insulation Resistance (M Ω)>100Ground IsolationIsolated from mounting surface.						Typical Typical @100Vdc	
ENVIRONMENTAL Thermal Zero Shift (%FSO Thermal Sensitivity Shift (% Operating Temperature (°C Storage Temperature (°C) Humidity	6/°C) ±0.1 C) -20 to -20 to -20 to -		From -10 to +50°C From -10 to +50°C				
PHYSICAL Case Material / Cover Mate Cable (Integral 30 Foot Ca Weight (grams) Mounting Mounting Torque	ble) 5x #30 <5 2x 0-80	Anodized Aluminum 5x #30 AWG Conductors, PFA Insulated, Braided Shield, PU Jacket <5 2x 0-80 x 3/16 socket head cap screws 3 lb-in (0.7 N-m)				Cable Not Included	
OPTION Model 40BL-GGGG-ZZZ With transverse sensing direction (parallel to mounting surface) ¹ Output is ratiometric to excitation voltage. Tolerance is +50%/-30%.							
Calibration supplied:	CS-FREQ-010	S-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to Upper Frequency L				ency Limit	
Supplied accessories:	AC-A03923	2x #0-80 (3/1	2x #0-80 (3/16" length) Socket Head Cap Screw, 2x #0 Washer, 1x Allen Key				
Optional accessories:	otional accessories: MTG-E4 121		Triaxial Mounting Block 3-Channel Precision Low Noise DC Amplifier				

140 Auto-zero Inline Amplifier

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.

Model 40B Accelerometer

performance specifications



ordering info

PART NUMBERING Model Number+Range +Cable Length+Options

40B-GGGG-ZZZT-XXX

I

- I I I I____Options (otherwise leave blank)
 - I I____1% Transverse Sensitivity when "T" is present
 - I____Cable (360 is 360 inches)
 - _____Range (0100 is 100 g)

Example: 40B-2000-360 Model 40B, 2000g, 360" (30ft) Cable, No Options

Model 40B, 2000g, 360" (30ft) Cable, No Options

Option: Model 40BL-GGGG-ZZZ with transverse sensing direction (parallel to mounting surface)

联系方式



广东省深圳市南山区创业路恰海广场东座2407 邮编:518000 电话:+86 755 2641 9890 传真:+86 755 2641 9680 电子邮箱:sales@bill-well.com

Model 40B Rev B

www.bill-well.com

Optional Dash Numbers

5Vdc Calibration

2Vdc Calibration

-001

-002