Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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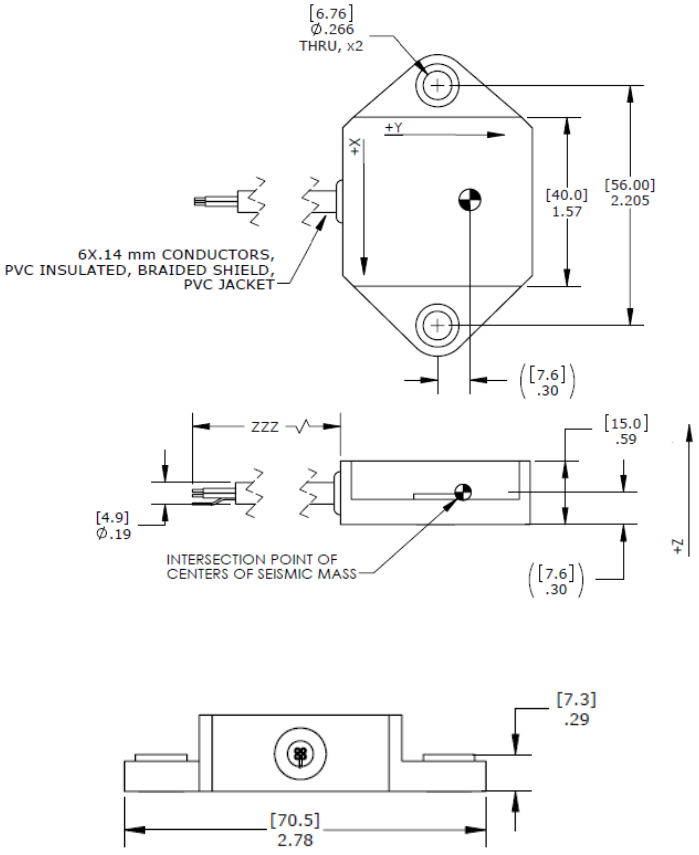
MODEL 4020 & 4030 ACCELEROMETER

SPECIFICATIONS

- **DC Response, Silicon MEMS**
- **Dual & Triaxial Output Options**
- **Low Cost, Great Value**
- **±2g & ±6g Measurement Range**
- **Rugged Construction**

The Model 4020 & 4030 are low noise, signal conditioned DC accelerometers packaged in a durable molded housing. The accelerometers are offered in ±2g & ±6g ranges with a nominal 0-200Hz bandwidth. The model 4020 is a dual axis configuration (X&Y axes) while model 4030 is a triaxial configuration. The capacitive silicon MEMS sensing element offers high resolution and long term stability for critical measurement applications.

dimensions

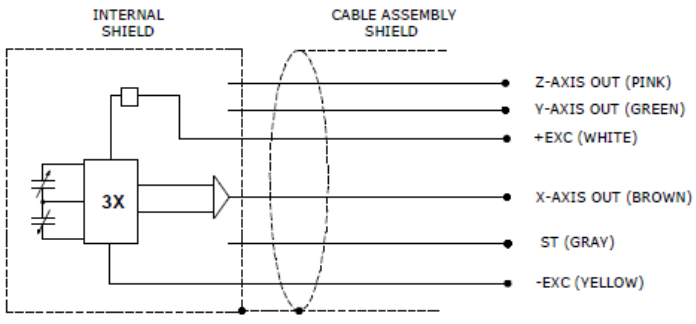


FEATURES

- **5-30Vdc Excitation Voltage**
- **Environmentally Sealed**
- **Low Pass Filtered Output**
- **Capacitive Silicon MEMS Element**
- **Integral #24 AWG Cable**
- **Self-Test Enabled**

APPLICATIONS

- **Low Frequency Vibration Monitoring**
- **Tilt & Inclination Measurement**
- **Motion Measurements**
- **Structural Monitoring**



PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 10Hz and 5Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters			
DYNAMIC			**Notes**
Range (g)	±2	±6	
Sensitivity (mV/g)	1000	333	±10%
Frequency Response (Hz)	0-200	0-200	±5%
Non-Linearity (%FSO)	±1	±1	
Transverse Sensitivity (%)	<3	<3	
Shock Limit (g)	2000	2000	
Residual Noise (µV RMS)	600	240	Passband
Residual Noise (µg/√Hz RMS)	50	42	
Self Test Output Change (mV)	X = +210 ±90 Y = -210 ±90 Z = -340 ±190	X = +70 ±30 Y = -70 ±30 Z = -110 ±65	Ground ST Lead
ELECTRICAL			
Zero Acceleration Output (V)	2.5 ±0.1		
Excitation Voltage (Vdc)	5 to 30		
Excitation Current (mA)	4		
Full Scale Output Voltage (Vdc)	±2		
Ground Isolation	Isolated from Mounting Surface		
ENVIRONMENTAL			
Thermal Zero Shift (%FSO)	±4		-40° to +85°C
Thermal Sensitivity Shift (%)	±5		-40° to +85°C
Operating Temperature (°C)	-40 to 85		
Humidity	Epoxy Sealed, IP65		
PHYSICAL			
Housing Material	Nylon 6-6, 30% GF, Brass Inserts at Mounting Holes		
Weight (grams)	50		
Mounting	2x ¼ or M6 Screws		
Mounting Torque	18 lb-in (2.0 N-m)		

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

ORDERING INFO

PART NUMBERING Model Number+Range+Cable Length

40XX-GGG-CCC
- I I I____Cable Length (120 is 120 inches)
- I I_____Range (002 is ±2g)
- I_____Dual or Triaxial Configuration (4020; Dual Axis, 4030; Triaxial)

Example: 4030-002-120
Model 4030 (triaxial), ±2g range, 120 inch cable length

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