imall

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



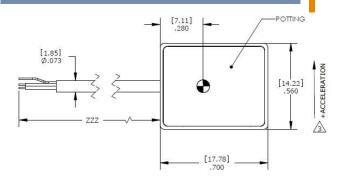


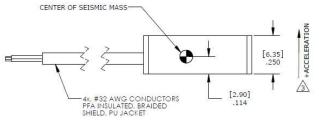




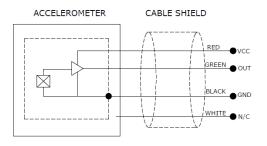
<u>/3</u>

DIMENSIONS





Direction of measurement must be specified at time of order. See Ordering Info on page 3.



MODEL 8101 ACCELEROMETER

SPECIFICATIONS

- Piezoelectric Linear Accelerometer
- ±40g & ±160g Dynamic Ranges
- Wide Bandwidth to 6000Hz
- Great Value, Low Cost

The Model 8101 is a low cost, plug & play accelerometer designed for general purpose vibration measurements. The accelerometer is available in \pm 40g or \pm 160g range and provides a flat frequency response up to >6kHz. Featuring stable piezo-ceramic crystals in shear mode, the accelerometer incorporates full power and signal conditioning and is offered in two measurement direction options (X or Z axis).

FEATURES

- Two Measurement Directions
- 7 to 36Vdc Excitation Voltage
- Potted Construction
- Piezo-Ceramic Shear Design
- -40° to +85°C Operating Range
- Integral Cable for Plug & Play

APPLICATIONS

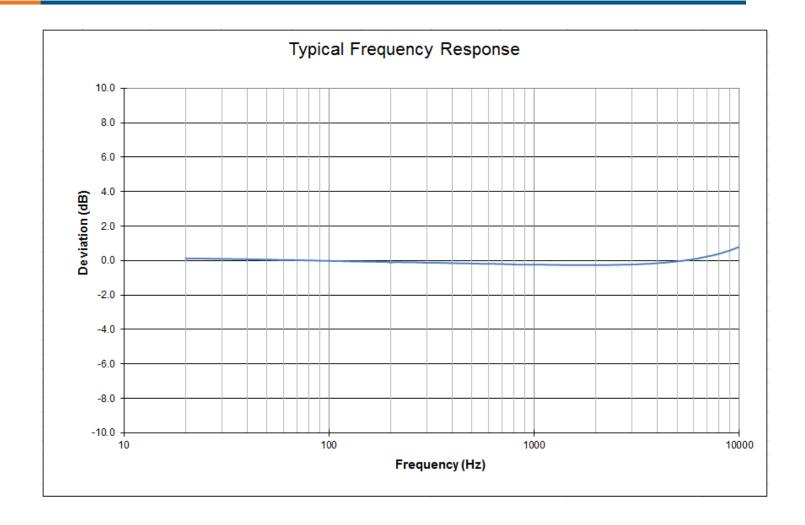
- Asset Monitoring
- Data Loggers
- Impact Monitoring
- Machine Health Monitoring
- System Wake-Up Switch
- Product R&D

PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz and 7Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Resonant Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g) Residual Noise (g RMS) Spectral Noise, 10Hz (µg√Hz) Spectral Noise, 10Hz (µg√Hz) Spectral Noise, 1kHz (µg√Hz)	±40 50.0 2-6000 >30000 ±2 <8 2000 0.008 160 40 16	±160 12.5 2-6000 >30000 ±2 <8 2000 0.008 160 40 16	Notes ±30% ±1dB 2Hz to 10kHz
ELECTRICAL Bias Voltage (Vdc) Full Scale Output Voltage (V) Total Supply Current (μ A) Excitation Voltage (Vdc) Output Impedance (Ω) Insulation Resistance (M Ω) Shielding Ground Isolation Warm-up Time (msec)	2.5 ±2 800 7 to 36 <100 >100 100% Isolated from 30	Mounting Surface	@100Vdc
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity (Active Element & Electronics) Humidity (Case)	-20/+20 from -40 to +85 -40 to +85 Hermetically \$ Epoxy Sealed		
PHYSICAL Case Material Cable Weight (grams) Mounting	Anodized Aluminum 4x #32 AWG Conductors PFA Insulated, Braided Shield, PU Jacket 3.6 Epoxy or Double-sided tape		Cable not included
Calibration supplied: CS-SENS-0 Optional accessories: CS-FREQ-0	· · · · · · · · · · · · · · · · · · ·		

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ORDERING INFORMATION

PART NUMBERING Model Number+Measurement Direction+Range+Cable Length

8101-GGGGX-ZZZ

 I
 Cable (120 is 120inches)

 I
 Measurement Direction (X is X-axis, Z is Z-axis)

 Range (0040 is 40g)

Example: 8101-0040X-120

Model 8101, X-axis Measurement, 40g, 120inches (10ft) Cable

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