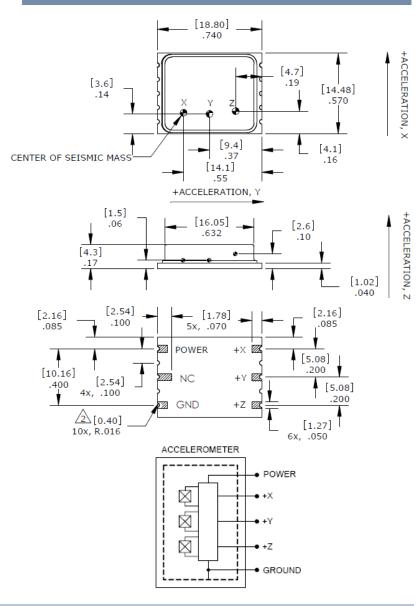
Triaxial Piezoelectric Accelerometer <22µA Current Consumption Wide Bandwidth to 6kHz Circuit Board Mountable

The Model 832M1 is a low cost, board mountable triaxial accelerometer. Featuring stable piezo-ceramic crystals, the accelerometer incorporates full power and signal conditioning with a maximum current consumption of 22 micro-amps. The model 832M1 is available in ± 25 g to ± 500 g ranges and provides a flat frequency response up to greater than 6kHz. The standard model 832 offers the same envelope with a lower maximum current consumption of 4 micro-amps.

ROHS (E



dimensions



FEATURES

- ±25g to ±500g Dynamic Range
- Low Cost Triaxial
- Hermetically Sealed
- Piezo-ceramic Crystals
- -40° to +125°C Operating Range
- Single Axis Configurations Available

APPLICATIONS

- Asset Monitoring
- Data Loggers
- Impact Monitoring
- Machine Health Monitoring
- System Wake-Up Switch
- Embedded Applications

performance specifications

All values are typical at +24°C, 100Hz and 3.3Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1001 for Embedded AC Accelerometers.

Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	±25 50.0 2-6000 >10000 ±2 <10 5000	±50 25.0 2-6000 >10000 ±2 <10 5000	±100 12.5 2-6000 >10000 ±2 <10 5000	±200 6.25 2-6000 >10000 ±2 <10 5000	±500 2.5 2-6000 >10000 ±2 <10 5000	Notes ±30% ±2dB
ELECTRICAL Bias Voltage (Vdc) Total Supply Current $(\mu A)^{1}$ Excitation Voltage (Vdc) ³ Output Impedance (Ω) Insulation Resistance (M Ω) Broadband Noise (μV) Spectral Noise ($\mu g/\sqrt{Hz}$) Spectral Noise ($\mu g/\sqrt{Hz}$) Spectral Noise ($\mu g/\sqrt{Hz}$) Warm-Up Time (msec) Shielding Ground Isolation	Exc Voltage / 2 <22 3.3 to 5.5 <100 >100 110 120 40 20 30 100% Isolated from Mo	Exc Voltage / 2 <22 3.3 to 5.5 <100 >100 90 160 40 16	Exc Voltage / 2 <22 3.3 to 5.5 <100 >100 50 160 40 16	Exc Voltage / 2 <22 3.3 to 5.5 <100 >100 40 160 40 16	Exc Voltage / 2 <22 3.3 to 5.5 <100 >100 50 600 160 80	@100Vdc 2Hz-10kHz @ 10Hz @ 100Hz @ 1000Hz
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C)	-20/+30 from -40°C to +125°C -40 to +125 -40 to +125					
PHYSICAL Sensing Element Case Material Weight (grams)	Ceramic (shear mode) Ceramic Base, Nickel Silver Cover 3.0					
 ¹ A lower current consumption of 4 micro-amps is available on model 832. ² The model 832M1 is not to be reflow soldered at high temperature, manual soldering is recommended. See application note. ³ The model 832M1 can be operated with 2.8V excitation but the full-scale range will be limited. 						

Calibration supplied: CS-SENS-0100 NIST Traceable Amplitude Calibration at 100Hz

ordering info

PART NUMBERING Model Number+Range

832M1-GGGG

____ Range (0200 is 200g)

Example: 832M1-0200 Model 832M1, 200g

联系方式



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