



MODEL 832M1 ACCELEROMETER

SPECIFICATIONS

- Triaxial Piezoelectric Accelerometer
- <22µA Current Consumption</p>
- 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 ±25g to ±500g 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.

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

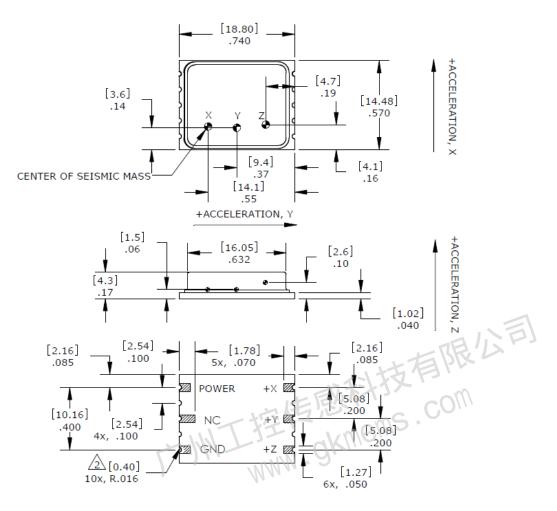
All values are typical at +24°C, 80Hz and 3.3Vdc excitation unless otherwise stated. TE Connectivity reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g) Broadband Noise (µV) Spectral Noise (µg/√Hz) Spectral Noise (µg/√Hz)	±25 50.0 2-6000 >10000 ±2 <10 5000 110 120 40 20	±50 25.0 2-6000 >10000 ±2 <10 5000 90 160 40 16	±100 12.5 2-6000 >10000 ±2 <10 5000 50 160 40 16	+200 6.25 2-6000 >10000 +2 <10 5000 40 160 40 16	±500 2.5 2-6000 >10000 ±2 <10 5000 50 600 160 80	Notes ±30% ±2dB 2Hz-10kHz @ 10Hz @ 100Hz @ 100Hz	
ELECTRICAL Bias Voltage (Vdc) Total Supply Current (μA) ¹ Excitation Voltage (Vdc) ³ Output Impedance (Ω) Insulation Resistance (MΩ) Warm-Up Time (msec) Shielding Ground Isolation	Exc Voltage / 2 <22 3.3 to 5.5 <100 >50 30 100% Isolated from Mod	unting Surface			1	@100Vdc	
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C)	100% Isolated from Mounting Surface -20/+30 from -40°C to +125°C -40 to +125 -40 to +125 Ceramic (shear mode) Ceramic Base, Nickel Silver Cover 3.0						
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 operating manual. ³ The model 832M1 can be operated with 2.8V excitation but the full-scale range will be limited. See operating manual for details. 							

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

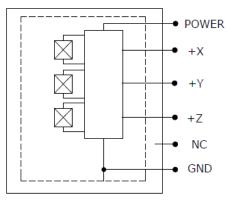
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DIMENSIONS



SCHEMATIC

ACCELEROMETER



广州工控传感科技有限公司

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ORDERING INFORMATION

832M1	GGGG	
Range 0025=25g 0050=50g 0100=100g 0200=200g 0500=500g		

Example; 832M1-0500 Model 832M1, 500g range



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