



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.

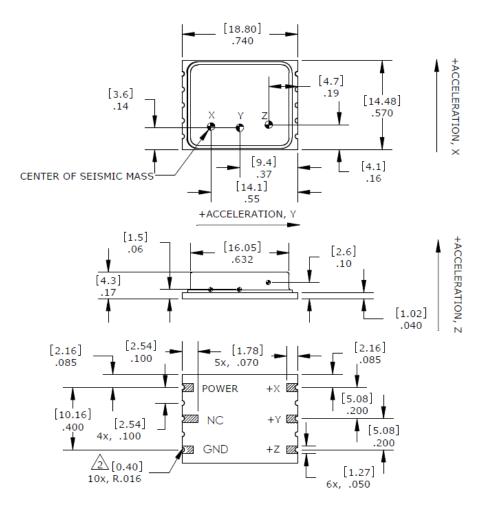
Parameters DYNAMIC						Notes
Range (g) Sensitivity (mV/g) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	±25 50.0 2-6000 >10000 ±2 <10 5000	±50 25.0 >10000 ±2 <10 5000	±100 12.5 2-6000 >10000 ±2 <10 5000	±200 6.25 2-6000 >10000 ±2 <10 5000	±500 2.5 2-6000 >10000 ±2 <10 5000	±30% ±2dB
Broadband Noise (µV) Spectral Noise (µg/√Hz) Spectral Noise (µg/√Hz) Spectral Noise (µg/√Hz)	110 120 40 20	90 160 40 16	50 160 40 16	40 160 40 16	50 600 160 80	2Hz-10kHz @ 10Hz @ 100Hz @ 1000Hz
ELECTRICAL Bias Voltage (Vdc) Total Supply Current (μ A) ¹ Excitation Voltage (Vdc) ³ Output Impedance (Ω) Insulation Resistance (M Ω) Warm-Up Time (msec) Shielding Ground Isolation	Exc Voltage / 2 <22 3.3 to 5.5 <100 >50 30 100% Isolated from Mounting Surface					@100Vdc
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 Ceramic Base, 3.0	mode) Nickel Silver Cove	r			
¹ A lower current consumption of ² The model 832M1 is not to be	reflow soldered a	t high temperature	e, manual soldering			

³ The model 832M1 can be operated with 2.8V excitation but the full-scale range will be limited. See operating manual for details.

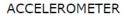
Calibration supplied: **CS-SENS-0100** NIST Traceable Amplitude Calibration at 100Hz

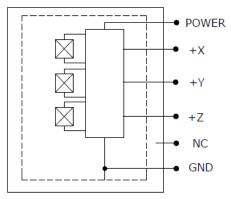
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DIMENSIONS



SCHEMATIC





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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