



ROHS CE

MODEL 832 ACCELEROMETER

SPECIFICATIONS

- Triaxial Piezoelectric Accelerometer
- <4µA Current Consumption
- Full Signal and Power Conditioning
- Circuit Board Mountable

The Model 832 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 4 micro-amps. **The model 832** is available in \pm 25g to \pm 500g ranges and provides a flat frequency response up to 2kHz. **The model 832M1** provides an extended frequency range to 6kHz.

FEATURES

- ±25g to ±500g Dynamic Range
- Low Cost Triaxial
- Hermetically Sealed
- Piezo-ceramic Crystals
- -20° to +80°C Operating Range
- -40° to +125°C Available on 832M1
- 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.

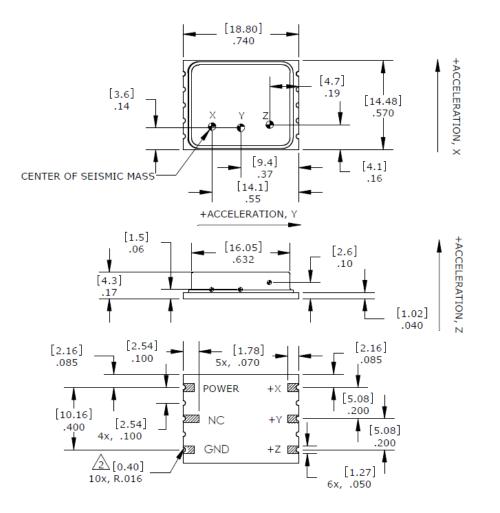
Parameters						
DYNAMIC Range (g)	±25	±50	±100	±200	±500	Notes
Sensitivity (mV/g) Frequency Response (Hz) ¹	50.0 2-2000	25.0 2-2000	12.5 2-2000	6.25 2-2000	2.5 2-2000	±30% ±2dB
Natural Frequency (Hz)	>10000	>10000	>10000	>10000	>10000	±20B
Non-Linearity (%FSO) Transverse Sensitivity (%)	±2 <10	±2 <10	±2 <10	±2 <10	±2 <10	
Shock Limit (g)	5000	5000	5000	5000	5000	
Broadband Noise (µV) Spectral Noise (µg/√Hz)	300 120	210 120	160 120	150 120	160 400	2Hz-10kHz @ 10Hz
Spectral Noise (µg/√Hz)	80	80	80	80	320	@ 100Hz
Spectral Noise (µg/√Hz)	40	40	40	40	160	@ 1000Hz
ELECTRICAL						
Bias Voltage (Vdc) Total Supply Current (µA)	Exc Voltage / 2	2				
Excitation Voltage (Vdc) 3 Output Impedance (Ω)	3.3 to 5.5 <100					
Insulation Resistance (M Ω)	>50					@100Vdc
Warm-Up Time (msec) Shielding	30 100%					
Ground Isolation		Nounting Surface				
ENVIRONMENTAL						
Temperature Response (%) Operating Temperature (°C)	-10/+20 from -20°C to +80°C -20 to +80					
Storage Temperature (°C)	-20 to +80					
PHYSICAL						
Sensing Element	Ceramic (shea					
Case Material Weight (grams)	Ceramic Base, 3.6	Nickel Silver Cov	er			
0 (0)						
¹ A wider frequency response of ² The model 832 is not to be ref				s recommended. Se	e operating manua	ı
		ign temperature, i	ina iau soluoing i		so operating manua	

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

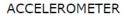
Calibration supplied: CS-SENS-0100 NIST Traceable Amplitude Calibration at 80Hz

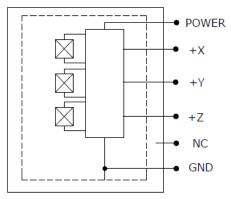
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DIMENSIONS



SCHEMATIC





ORDERING INFORMATION

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

Example; 832-0500 Model 832, 500g range

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