





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 ±25g to ±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 $\pm 24^{\circ}$ 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)	±25	±50	±100	±200	±500	110100
Sensitivity (mV/g)	50.0	25.0	12.5	6.25	2.5	±30%
Frequency Response (Hz) 1	2-2000	2-2000	2-2000	2-2000	2-2000	±2dB
Natural Frequency (Hz)	>10000	>10000	>10000	>10000	>10000	
Non-Linearity (%FSO)	±2	±2	±2	±2	±2	
Transverse Sensitivity (%)	<10	<10	<10	<10	<10	
Shock Limit (g)	5000	5000	5000	5000	5000	
Broadband Noise (μV)	300	210	160	150	160	2Hz-10kHz
Spectral Noise (µg/√Hz)	120	120	120	120	400	@ 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) Exc Voltage / 2

Ground Isolation Isolated from Mounting Surface

ENVIRONMENTAL

Temperature Response (%) -10/+20 from -20°C to +80°C

Operating Temperature (°C) -20 to +80 Storage Temperature (°C) -20 to +80

PHYSICAL

Sensing Element Ceramic (shear mode)

Case Material Ceramic Base, Nickel Silver Cover

Weight (grams) 3.6

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

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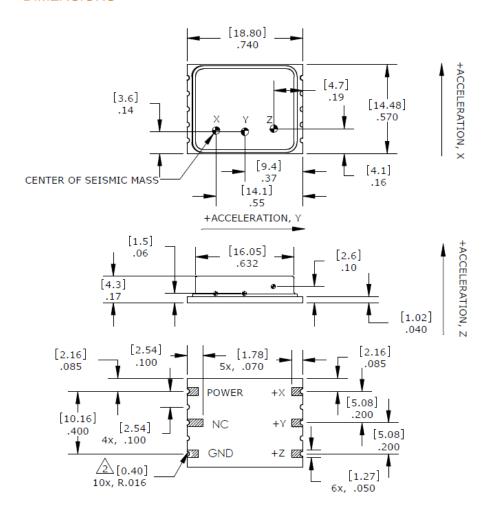
@100Vdc

¹ A wider frequency response of 2-6000Hz is available on model 832M1

² The model 832 is not to be reflow soldered at high temperature, manual soldering is recommended. See operating manual.

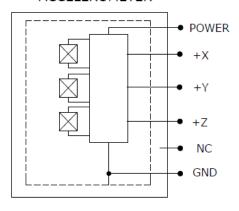
³ The model 832 can be operated with 2.8V excitation but the full-scale range will be limited. See operating manual for details.

DIMENSIONS



SCHEMATIC

ACCELEROMETER



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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