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MODEL 834M1 ACCELEROMETER

SPECIFICATIONS

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

The Model 834M1 is a low cost, board mountable triaxial accelerometer designed for high amplitude embedded shock applications. The accelerometer features a maximum current consumption of 22 micro-amps and incorporates full power and signal conditioning.

The model 834M1 is available in $\pm 2000g$ to $\pm 6000g$ ranges and provides a flat frequency response up to greater than 6kHz. The standard model 834 offers the same envelope with a lower maximum current consumption of 4 micro-amps.

FEATURES

- ±2000g to ±6000g Dynamic Range
- Low Cost Triaxial
- Hermetically Sealed
- Piezo-ceramic Crystals
- -40° to +125°C Operating Range
- Single Axis Configurations Available

APPLICATIONS

- Asset Monitoring
- Impact Testing
- System Wake-Up Switch
- Embedded Applications
- Instrumentation

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.

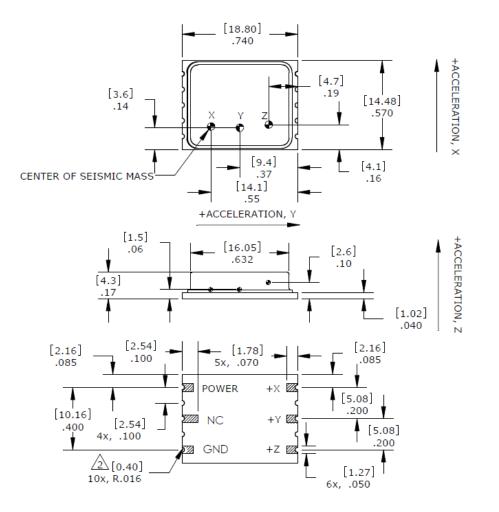
Parameters DYNAMIC	±2000	±6000	Notes
Range (g) Sensitivity (mV/g) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	±2000 0.62 2-6000 >30000 ±2 <8 10000	±6000 0.20 2-6000 >30000 ±2 <8 10000	±30% ±2dB
Broadband Noise (μV) Spectral Noise (mg/√Hz) Spectral Noise (mg/√Hz) Spectral Noise (mg/√Hz)	40 3.2 0.6 0.2	30 4.0 1.0 0.5	0.1Hz-10kHz @ 10Hz @ 100Hz @ 1000Hz
ELECTRICAL Bias Voltage (Vdc) Total Supply Current (μ A) ¹ Excitation Voltage (Vdc) Output Impedance (Ω) Insulation Resistance (M Ω) Shielding Ground Isolation	Exc Voltage / 2 <22 3.3 to 5.5 <100 >50 @100Vdc 100% Isolated from Mounting Surface		
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity	-20/+30 from -40°C to +125°C -40 to +125 -40 to +125 Hermetically Solder Sealed		
PHYSICAL Sensing Element Case Material Weight (grams)	Ceramic (shear mode) Ceramic Base, Nickel Silver Cover 2.6		
	flow soldered at hig	ailable on model 834. The temperature, manual soldering is recommended. See op- tion but the full-scale range will be limited. See operating m	

³ The model 834M1 can be operated with 2.8V excitation but the full-scale range will be limited. See operating manual for details.

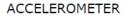
Calibration supplied: CS-SENS-0100 NIST Traceable Amplitude Calibration at 80Hz

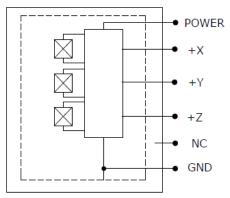
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DIMENSIONS



SCHEMATIC





ORDERING INFORMATION

834M1 GGGG Range 2000=2000g 6000=6000g

Example; 834M1-6000 Model 834M1, 6000g range



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社:〒124-0023 東京都葛飾区東新小岩3丁目9番6号 TEL: (03) 3695-5431/FAX: (03) 3695-5698 大阪支店:〒530-0054 大阪市北区南森町2-2-9(棟森町八千代ビル7F) TEL:(06)6361-4831/FAX:(06)6361-9360

e-mail: sales-tokyo@krone.co.jp URL: https://www.krone.co.jp

TE.com/sensorsolutions

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