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MODEL 805M1 ACCELEROMETER

SPECIFICATIONS

- TO-5 Series Accelerometer
- 3-Wire Voltage Output
- Low-Cost, Embedded Applications
- <0.80mA Power Consumption

The Model 805M1 is a miniature adhesive mount voltage output accelerometer built on a 3-pin TO-5 header. It is available in ±20g to ±500g dynamic ranges and offers a flat frequency response to 12kHz. The accelerometer features a hermetic construction in a TO-5 header configuration. The model 805M1 incorporates a stable piezo-ceramic crystal with low power electronics in a 100% shielded housing suitable for many embedded OEM applications.

The model 805M1 accelerometer is offered in two configurations; one for adhesive mounting and one for stud mounting. An isolating cover option is also included for the standard model.

FEATURES

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- ±20g to ±500g Range
- Wide bandwidth up to 12kHz
- TO-5 Configuration
- Hermetically Sealed
- -40°C to +100°C Operating Range
- Case Grounded Design
- 3.0-5.5 Excitation Voltage

APPLICATIONS

- Machine Monitoring
- Embedded Preventive Maintenance
- Low-Cost OEM Installation
- Permanent Structural Study
- Embedded Sensing Solution

PERFORMANCE SPECIFICATIONS

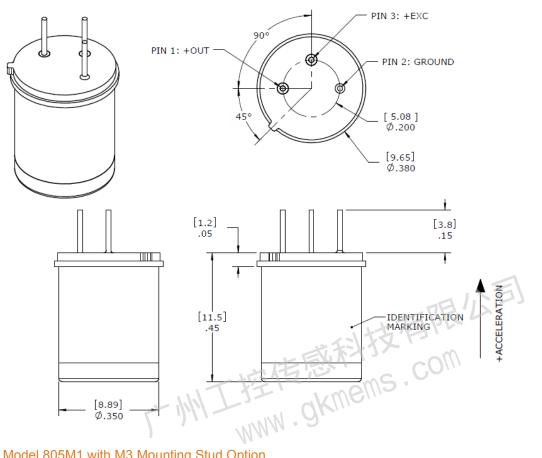
All values are typical at $+24^{\circ}$ C, 80Hz and 5Vdc excitation unless otherwise stated. TE Connectivity reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g) Residual Noise (g RMS)	±20 100 1-8000 0.4-10000 34000 ±1 5 5000 0.001	± 50 40 1-8000 0.4-10000 34000 ± 1 5 5000 0.001	±100 20 1-8000 0.4-12000 34000 ±1 5 5000 0.003	±200 10 1-8000 0.4-12000 34000 ±1 5 5000 0.003	± 500 4 1-8000 0.4-12000 34000 ± 1 5 5000 0.005	Notes ±10% ±1dB ±3dB Broadband 1Hz to 10kHz
ELECTRICAL Bias Voltage (Vdc) Total Supply Current (mA) Excitation Voltage (Vdc) ¹ Output Impedance (Ω) Insulation Resistance (M Ω) Full Scale Output Voltage (V) Grounding	Exc Voltage / 2 <0.80 3.0 to 5.5 <100 >100 ±2 Case grounded to mounting surface					@50Vdc
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C)	±10 -40 to +100 -54 to +125 Piezo-Ceramic Stainless Steel					
PHYSICALSensing ElementPiezo-CeramicCase MaterialStainless SteelWeight (grams)5.0MountingAdhesive or Circuit Board (M3 Stud Mounting for -01 Option)						
¹ The model 805M1 can be operated with 2.8V excitation but the full-scale range will be limited.						
Calibration supplied: CS-SENS-0100 NIST Traceable Amplitude Calibration at 80Hz						

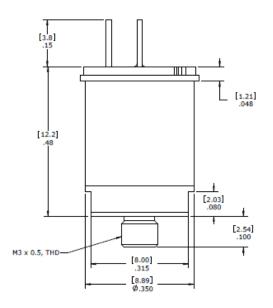
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DIMENSIONS

Standard Model 805M1



Model 805M1 with M3 Mounting Stud Option

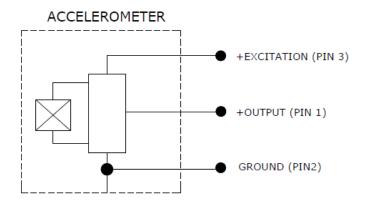


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SCHEMATIC



ORDERING INFORMATION



805M1-0200-01 Model 805M1 with M3 mounting stud, 200g range

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