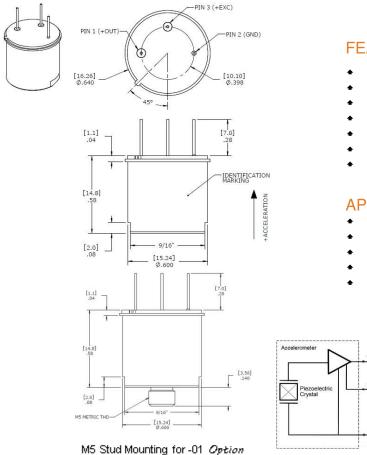




DIMENSIONS



MODEL 808M1 ACCELEROMETER

SPECIFICATIONS

- TO-8 Series Accelerometer
- 3-Wire Voltage Output
- Low-Cost, Embedded Applications
- <0.80mA Power Consumption

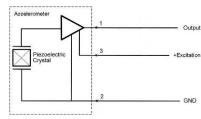
The **Model 808M1** is a miniature adhesive mount voltage output accelerometer built on a 3-pin TO-8 header. It is available in ±4g and ±20g dynamic ranges and offers a flat frequency response to 5kHz. The accelerometer features a hermetic construction in a TO-8 header configuration. The model 808M1 incorporates a stable piezo-ceramic crystal with low power electronics in a 100% shielded housing suitable for many embedded OEM applications.The accelerometer is offered in two configurations; one for adhesive mounting and one for stud mounting.

FEATURES

- ±4g and ±20g Range
- Wide bandwidth up to 5kHz
- TO-8 Configuration
- Hermetically Sealed
- -40°C to +100°C Operating Range
- Case Grounded Design
- 3.0-5.5 Excitation Voltage

APPLICATIONS

- Machine Monitoring
- Low-Cost OEM Installation
- Permanent Structural Study
- Embedded Sensing Solution
- Data Loggers



PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz and 5Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1001 for Embedded AC Accelerometers.

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 1-3000 0.4-5000 18000 ±1 5 5000 0.0008	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 (MΩ) Full Scale Output Voltage (V Grounding	V) ±2	2 ed to mounting surface	@50Vdc
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C)			
PHYSICAL Sensing Element Case Material Weight (grams) Mounting	Stainless Stee 20	c, Shear Mode el Sircuit Board (M5 Stud Mounting for -01 Option)	
¹ The model 808M1 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	
Wiring color code:	See schematic		

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ORDERING INFORMATION

PART NUMBERING Model Number+Range

808M1-GGGG-XX

I I____ Optional Stud Dash Number I____ Range (0020 is 20g)

Dash Number Stu -01 M5

Stud Options M5 x 0.8

Example: 808M1-0020 Model 808M1, 20g