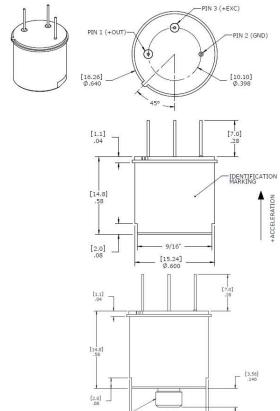








DIMENSIONS



M5 Stud Mounting for -01 Option

MODEL 808M1 ACCELEROMETER

SPECIFICATIONS

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

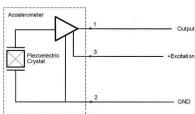
The **Model 808M1** is a miniature adhesive mount voltage output accelerometer built on a 3-pin TO-8 header. It is available in ±4g and ±20g dynamic ranges and offers a flat frequency response to 5kHz. The accelerometer features a hermetic construction in a TO-8 header configuration. The model 808M1 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
DVNAMIC

i arameters			
DYNAMIC			Notes
Range (g)	±4	±20	
Sensitivity (mV/g)	500	100	±10%
Frequency Response (Hz)	1-3000	1-3000	±1dB
Frequency Response (Hz)	0.4-5000	0.4-5000	±3dB
Natural Frequency (Hz)	18000	18000	
Non-Linearity (%FSO)	±1	±1	
Transverse Sensitivity (%)	5	5	
Shock Limit (g)	5000	5000	
Residual Noise (g RMS)	0.0006	0.0008	Broadband 1Hz to 10kHz

ELECTRICAL

Bias Voltage (Vdc) Exc Voltage / 2 Total Supply Current (mA) < 0.80 Excitation Voltage (Vdc) 1 3.0 to 5.5 Output Impedance (Ω) <100 Insulation Resistance (MΩ) >100

Full Scale Output Voltage (V) ±2

Grounding Case grounded to mounting surface

ENVIRONMENTAL

Temperature Response (%) ±10 Operating Temperature (°C) -40 to +100 Storage Temperature (°C) -54 to +125

PHYSICAL

Sensing Element Piezo-Ceramic, Shear Mode

Case Material Stainless Steel

Weight (grams) 20

Adhesive or Circuit Board (M5 Stud Mounting for -01 Option) Mounting

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

Wiring color code: See schematic

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@50Vdc

¹ The model 808M1 can be operated with 2.8V excitation but the full-scale range will be limited.

ORDERING INFORMATION

PART NUMBERING	Model Number+Range
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808M1-GGGG-XX

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

Dash Number Stud Options -01 M5 x 0.8

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

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