



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



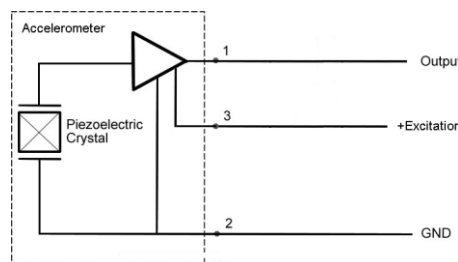
The Model 808M1 is a miniature adhesive mount voltage output accelerometer built on a 3-pin TO-8 header. It is available in $\pm 4g$ and $\pm 20g$ dynamic ranges and offers a flat frequency response to 5kHz. The accelerometer features a hermetic construction in a TO-8 header configuration. The model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

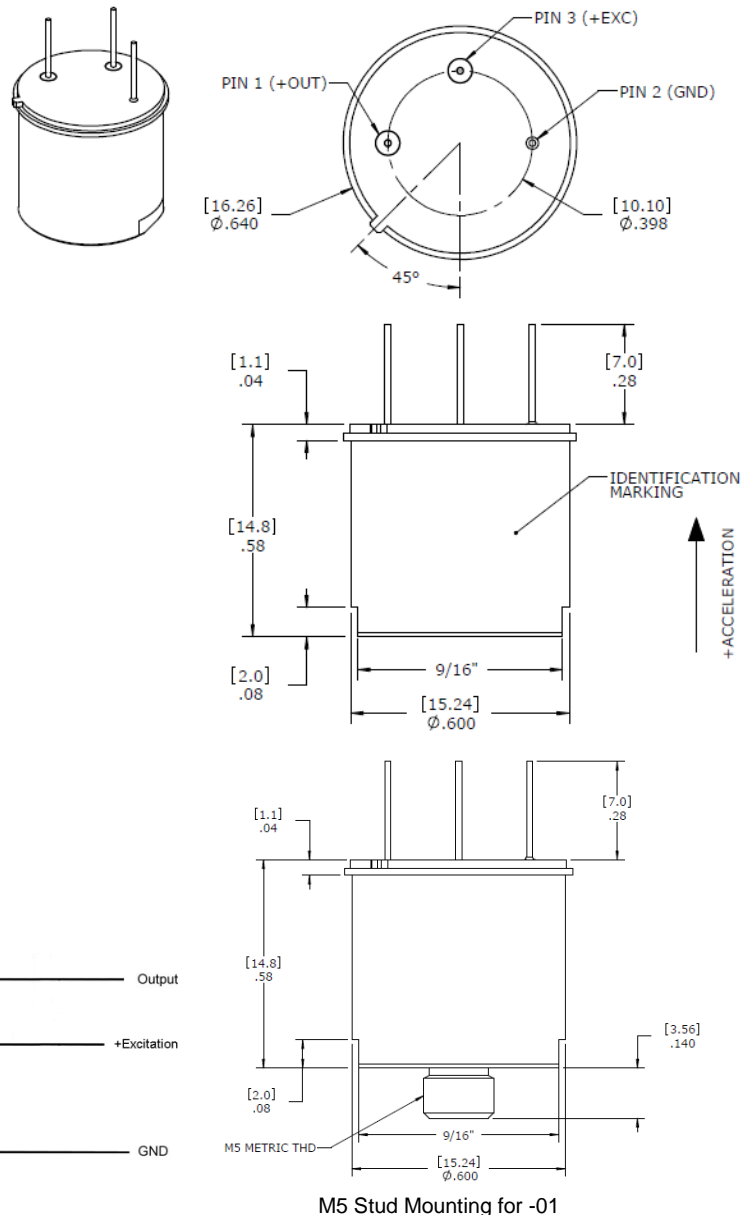
- $\pm 4g$ and $\pm 20g$ Range
- Wide bandwidth up to 5kHz
- TO-8 Configuration
- Hermetically Sealed
- $-40^{\circ}C$ to $+100^{\circ}C$ Operating Range
- Case Grounded Design
- 3.0-5.5 Excitation Voltage

APPLICATIONS

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



dimensions



M5 Stud Mounting for -01

Model 808M1 Accelerometer

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

			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		@50Vdc
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
Mounting	Adhesive or Circuit 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

ordering info

PART NUMBERING Model Number+Range

808M1-GGGG-XX

| | Optional Stud Dash Number
| Range (0020 is 20g)

Dash Number Stud Options
-01 M5 x 0.8

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

联系方式



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