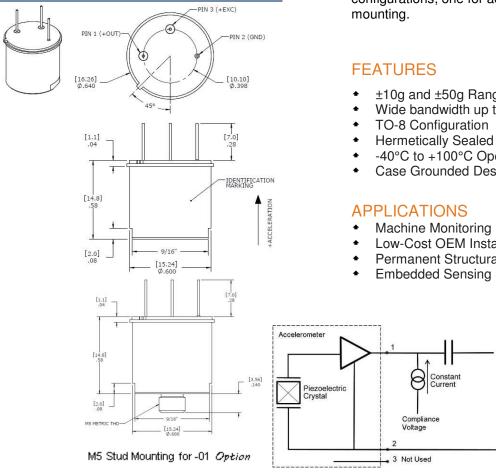




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## DIMENSIONS



## **MODEL 808 ACCELEROMETER**

## **SPECIFICATIONS**

- **TO-8 Series Accelerometer** ٠
- 2-Wire IEPE Interface
- Low-Cost, Embedded Applications
- Wide Bandwidth to 6kHz

The Model 808 is a miniature adhesive mount IEPE accelerometer built on a 3-pin TO-8 header. It is available in ±10g and ±50g dynamic ranges and offers a flat frequency response to 6kHz. The accelerometer features a hermetic construction in a TO-8 header configuration.

The model 808 incorporates a stable piezoceramic crystal and an integrated charge converter amplifier 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

- ±10g and ±50g Range
- Wide bandwidth up to 6kHz

- -40°C to +100°C Operating Range
- Case Grounded Design
- Machine Monitoring
- Low-Cost OEM Installation
- Permanent Structural Study
- **Embedded Sensing Solution**

Output

GND

## PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz and 4mA 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)	±10 500 1-3000 0.3-5000 18000 ±1 5 5000 0.0008	$\pm 50$ 100 2-4000 0.3-6000 24000 $\pm 1$ 5 5000 0.001	Notes ±10% (see Note 1 for ±5% option) ±1dB ±3dB Broadband 1Hz to 10kHz
ELECTRICAL Compliance Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Bias Voltage (Vdc) Output Impedance ( $\Omega$ ) Full Scale Output Voltage (Grounding		ded to mounting surface	Room Temperature -40 to +100°C
ENVIRONMENTAL Temperature Response (% Operating Temperature (°C Storage Temperature (°C)			+125°C option, see Note 2
PHYSICAL Sensing Element Case Material Weight (grams) Mounting <sup>1</sup> Contact factory for model n	Piezo-Ceramic, Shear Mode Stainless Steel 20 (for 10g range), 16 (for 50g range) Adhesive or Circuit Board (M5 Stud Mounting for -01 Option) umber to order with ±5% sensitivity tolerance		
<sup>2</sup> Contact factory for model number to order with +125°C operating temperature Calibration supplied: CS-SENS-0100 NIST Traceable Amplitude Calibration at 80Hz			
Wiring color code:	See schematic		

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