

MODEL 3801 Accelerometer

Gas Damped, DC Response

Hermetically Sealed

mV Output

10,000g Over-Range Protection

DESCRIPTION

The Model 3801 is a mV output piezoresistive accelerometer in a rugged hermetic package. The accelerometer incorporates mechanical stops for over-range protection up to 10,000g. The model 3801 is offered in ranges from ± 20 to $\pm 2000g$ and is gas damped to provide a wide frequency response. The accelerometer is temperature compensated to provide a stable output over the operating environment.



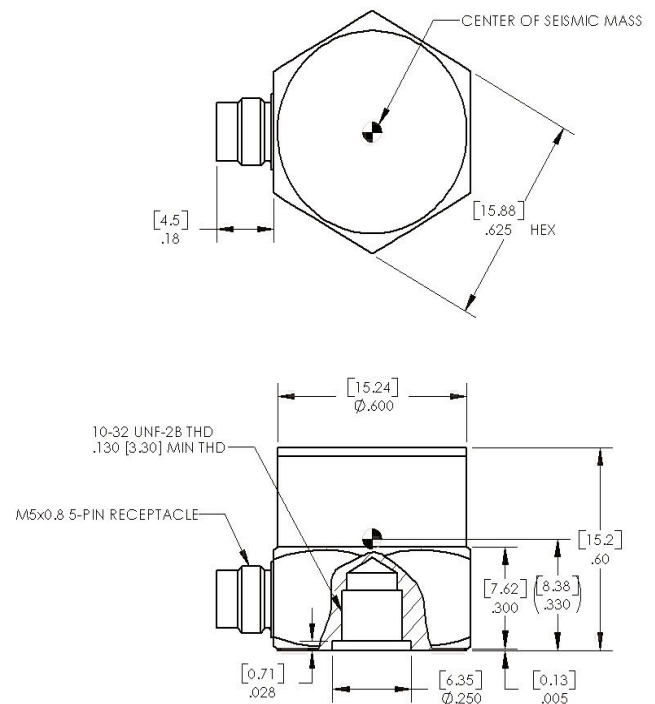
FEATURES

- ◆ $\pm 20g$ to $\pm 2000g$ Dynamic Range
- ◆ 10,000 Shock Protection
- ◆ Hermetically Sealed Sensor
- ◆ Gas Damping
- ◆ mV Output
- ◆ Optional Self-Test Feature
- ◆ Stud Mounting

APPLICATIONS

- ◆ Impact Testing
- ◆ Structural Testing
- ◆ Test & Instrumentation
- ◆ Environmental Testing
- ◆ Mil-aero Applications

dimensions



Vibration Sensors Technical Support:
 Tel: 949-716-5377
 Fax: 949-916-5677
 Email: vibration@meas-spec.com



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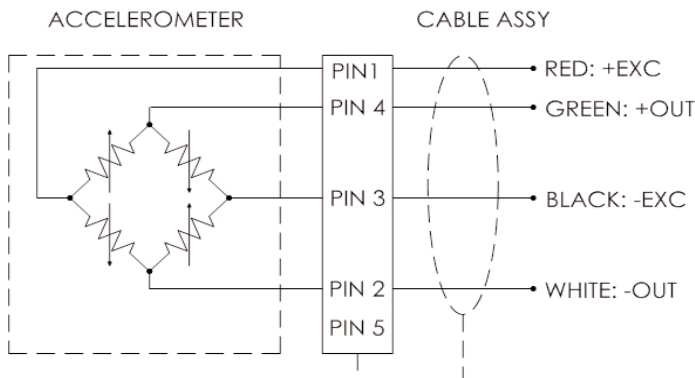
performance specifications

All values are typical at 25°C, 100HZ and 10Vdc excitation unless otherwise stated.
 Measurement Specialties reserves the right to update and change these specifications without notice.

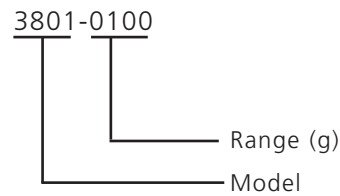
PARAMETERS

DYNAMIC					
Range	+/-20	+/-50	+/-100	UNITS	NOTES
Sensitivity	3.2	1.5	0.8	mV/g	Typical
Frequency Response	0-400	0-800	0-1300	Hz	+/- 5%
ELECTRICAL					
Excitation Voltage	5 to 10			Vdc	Ratiometric Output
Input Resistance	6500 to 7800			Ohms	
Output Resistance	2700 to 4800			Ohms	
Insulation Resistance (@ 50Vdc)	100			MΩ	Minimum
PHYSICAL					
Base and Lid Material	Stainless Steel				Passivated
Weight	20			grams	Maximum
Mounting	10-32 Stud				18 lb-in mounting torque
ENVIRONMENTAL					
Shock Limit	10,000			g's	
Operating Temperature	-40 to +105			°C	
Humidity	Hermetically sealed				
SUPPLIED ACCESSORIES					
AC-D02298	10-32 to 10-32 mounting stud				
AC-A02252-060	Cable Assembly, 5ft				

electrical schematic



ordering information



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