

Model 8011-01 Accelerometer

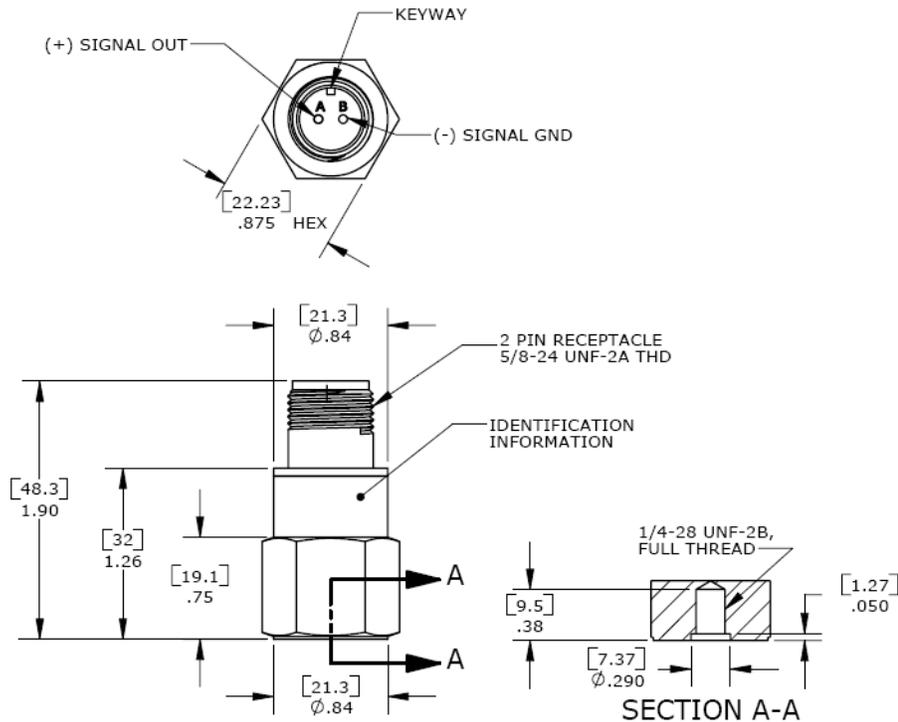


EMI Shielded Industrial Accelerometer
16kHz Bandwidth
-55°C to +125°C Operating Range
Top Exit Connector



The **Model 8011-01** is an internally shielded rugged IEPE accelerometer designed for harsh environments. The accelerometer is available in $\pm 80g$ dynamic ranges and has a flat bandwidth up to greater than 16kHz. The model 8011-01 features a top exit MIL-C-5015 connector and is designed to operating in temperature ranges from -55°C to +125°C. The unit is hermetically sealed and features the popular stud mount installation.

dimensions

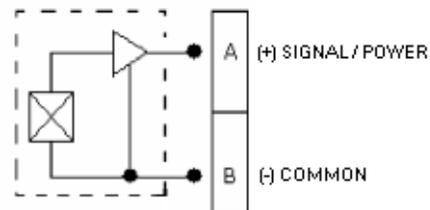


FEATURES

- $\pm 80g$ Dynamic Range
- Wide bandwidth up to 16kHz
- Case Isolated, Internally Shielded
- Hermetically Sealed, Welded
- Annular Shear Mode
- Reverse Wiring Protection
- Stable Temperature Response
- 2-Pin MIL-C-5015 Connector

APPLICATIONS

- General Purpose
- Machine Monitoring
- Industrial Applications
- Harsh Environments
- Gearbox Monitoring



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performance specifications

All values are typical at +24°C, 100Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters		Notes
DYNAMIC		
Range (g)	±80	
Sensitivity (mV/g)	100	
Frequency Response (Hz)	1-10000	±10%
Frequency Response (Hz)	0.1-16000	±3dB
Natural Frequency (Hz)	32000	
Non-Linearity (%FSO)	±1	
Transverse Sensitivity (%)	<5	
Shock Limit (g)	5000	
ELECTRICAL		
Compliance Voltage (Vdc)	18 to 30	See Note 1
Excitation Current (mA)	2 to 10	
Bias Voltage (Vdc)	8 to 12	
Output Impedance (Ω)	<100	
Residual Noise (g RMS)	0.0001	
Grounding	Case Isolated, Internally Shielded	
ENVIRONMENTAL		
Temperature Response (%)	±5	±5
Operating Temperature (°C)	-55 to +125	
Storage Temperature (°C)	-55 to +125	
PHYSICAL		
Sensing Element	Ceramic (shear mode)	
Case Material	Stainless Steel	
Weight (grams)	90	
Mounting Torque	24 lb-in (2.7 N-m)	

¹ For full dynamic range a minimum compliance voltage of 24Vdc is recommended

Calibration supplied:	CS-FREQ-0100	NIST Traceable Amplitude Calibration from 20Hz to ±10% Frequency Response Limit
Supplied accessories:	AC-D03636	¼-28 to ¼-28 mounting stud
Optional accessories:	316-XXX	Cable Assembly, Straight (XXX designates length in inches, 10ft standard)
	318-XXX	Cable Assembly, 90 Degrees (XXX designates length in inches, 10ft standard)
	AC-D03664	¼-28 to M5 mounting stud
	AC-D03665	¼-28 to M6 mounting stud

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ordering info

PART NUMBERING Model Number+Range

8011-01-GGGG
 |
 | _____ Range (0080 is 80g)

Example: 8011-01-0080
 Model 8011-01, 80g

中国

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