Model 8011LF-01 & 8012LF-01 Accelerometer

EMI Shielded Industrial Accelerometer 0.1Hz-10kHz Bandwidth -55°C to +125°C Operating Range Top Exit Connector or Integral Cable

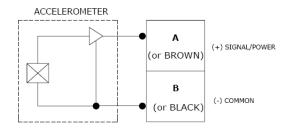
**The 8011LF-01 & 8012LF-01** are internally shielded rugged IEPE accelerometers designed for harsh environments. The accelerometers are available in ±5g, ±10g & ±500g dynamic ranges and have a flat bandwidth up to greater than 10kHz. The model 8011LF-01 features a top exit MIL-C-5015 connector while the model 8012LF-01 features an integral cable. The units are hermetically sealed and are designed to operating in temperature ranges from -55°C to +125°C.

# FEATURES

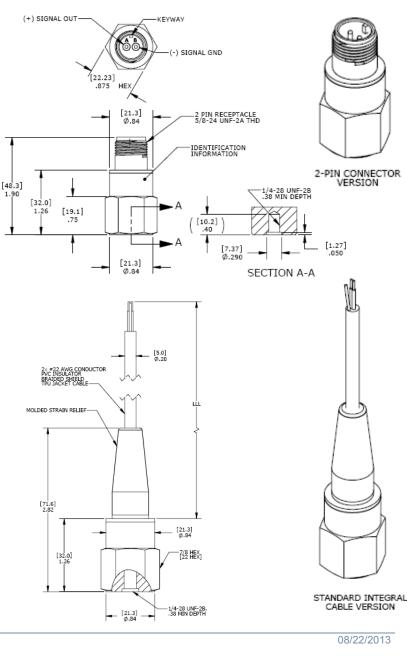
- ±5g, ±10g & ±500g Dynamic Ranges
- Wide bandwidth up to 10kHz
- Case Isolated, Internally Shielded
- Hermetically Sealed, Welded
- Annular Shear Mode
- Reverse Wiring Protection
- Stable Temperature Response

#### **APPLICATIONS**

- Low Frequency Purpose
- Machine Monitoring
- Industrial Applications
- Harsh Environments
- Gearbox Monitoring











# dimensions

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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. Standard product parameters are described in PSC-1003 for Plug & Play AC Accelerometers.

Parameters <b>DYNAMIC</b> Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	±5 1000 0.6-3000 0.1-8000 28000 ±1 <5 5000	±10 500 0.6-3000 0.1-10000 32000 ±1 <5 5000	±500 10 0.6-5000 0.1-10000 42000 ±1 <5 5000		Notes ±10% (±5% Option) ±10% ±3dB	
ELECTRICAL Compliance Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Output Impedance ( $\Omega$ ) Insulation Resistance (M $\Omega$ )	18 to 30 2 to 10 8 to 12 <100 >100	18 to 30 2 to 10 8 to 12 <100 >100	18 to 30 2 to 10 8 to 12 <100 >100		See Note 1 Room Temperature @100Vdc	
Residual Noise (g RMS) Warm-up Time (sec) Grounding ENVIRONMENTAL	0.00005 <1 Case Isolate	0.0001 <1 ed, Internally Shiel	0.0003 <1 ded			
Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C)	±5 (see typic -55 to +125 -55 to +125					
PHYSICAL Sensing Element Case Material Weight (grams) Mounting Torque	Ceramic (shear mode) Stainless Steel 93 24 lb-in (2.7 N-m)					
<sup>1</sup> For full dynamic range a min <sup>2</sup> Contact factory for Hazardou			recommended			
Calibration supplied:	CS-FREQ-0100	NIST Traceable A	Amplitude Calibration from 20F	Iz to ±10% Frequency F	Response Limit	

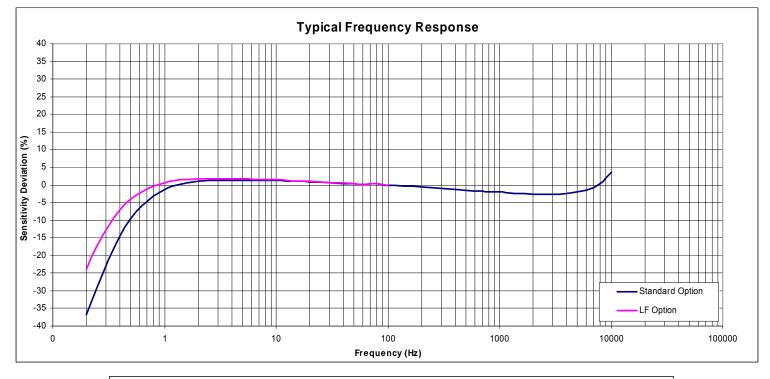
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Supplied accessories:	AC-A03663	1/4-28 to 1/4-28 mounting stud
Optional accessories:	316-XXX 318-XXX AC-D03664 AC-D03665	Cable Assembly, Straight (XXX designates length in inches, 10ft standard) Cable Assembly, 90 Degrees (XXX designates length in inches, 10ft standard) <sup>1</sup> /4-28 to M5 mounting stud <sup>1</sup> /4-28 to M6 mounting stud

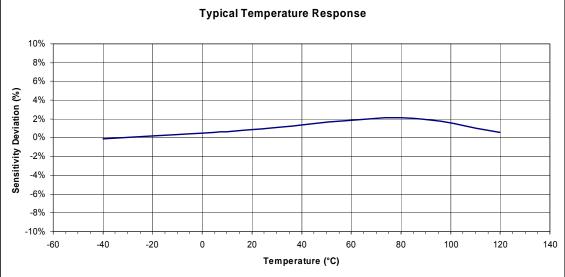
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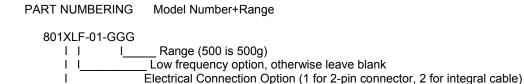
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#### performance specifications





ordering info



Example: 8011LF-01-500

Model 8011LF-01, 2-pin connector, 500g range

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08/22/2013