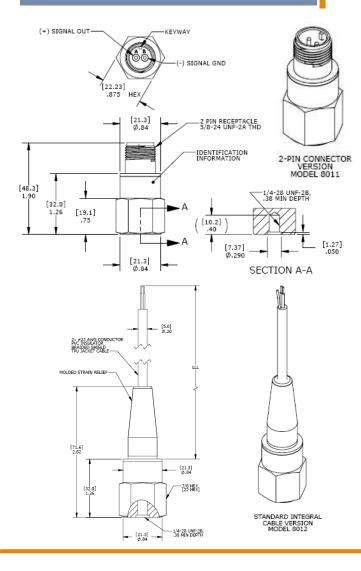




CE

Rolls

dimensions



MODEL 8011-01 & 8012-01 ACCELEROMETER

SPECIFICATIONS

- Triaxial IEPE Accelerometer
- 16kHz Bandwidth
- -55°C to +125°C Operating Range
- Top Exit Connector or Integral Cable

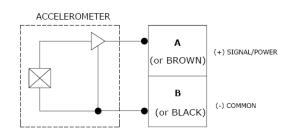
The Model 8011-01 & 8012-01 are internally shielded rugged IEPE accelerometers designed for harsh environments. The accelerometers are available in $\pm 10g$, $\pm 80g \& \pm 500g$ dynamic ranges and have a flat bandwidth up to greater than 16kHz. The model 8011-01 features a top exit MIL-C-5015 connector while the model 8012-01 features an integral cable. The units are hermetically sealed and are designed to operating in temperature ranges from - 55° C to +125°C.

FEATURES

- ±10g, ±80g & ±500g Dynamic Ranges
- Wide bandwidth up to 16kHz
- Case Isolated, Internally Shielded
- Hermetically Sealed, Welded
- Annular Shear Mode
- Reverse Wiring Protection
- Stable Temperature Response

APPLICATIONS

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

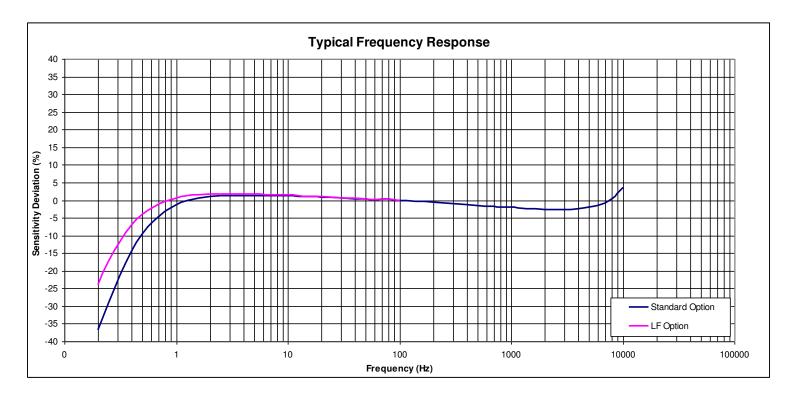


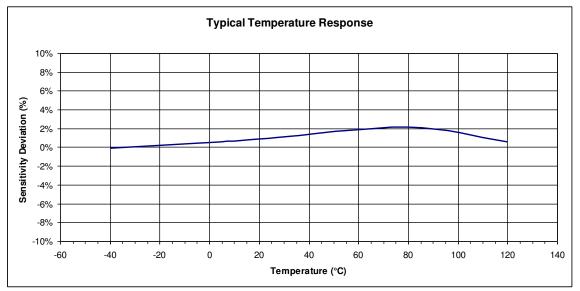
PERFORMANCE SPECIFICATIONS

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 DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) ² Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	±10 500 1-4000 0.5-7000 28000 ±1 <5 5000	±80 100 1-10000 0.5-16000 32000 ±1 <5 5000	±500 10 1-10000 0.5-18000 42000 ±1 <5 5000	Notes ±10% (±5% Option) ±10% ±3dB
$\begin{array}{l} \textbf{ELECTRICAL}\\ Compliance Voltage (Vdc)\\ Excitation Current (mA)\\ Bias Voltage (Vdc)\\ Output Impedance (\Omega)\\ Insulation Resistance (M\Omega)\\ Residual Noise (g RMS)\\ Warm-up Time (sec)\\ Grounding \end{array}$	18 to 30 2 to 10 8 to 12 <100 >100 0.00005 <1 Case Isolate	18 to 30 2 to 10 8 to 12 <100 >100 0.0001 <1 ed, Internally Shi	18 to 30 2 to 10 8 to 12 <100 >100 0.0003 <1 elded	See Note 1 Room Temperature @100Vdc
ENVIRONMENTAL Temperature Response (%) ±5 (see typical temperature response on following page) Operating Temperature (°C) -55 to +125 Storage Temperature (°C) -55 to +125 PHYSICAL -55 to +125				
Sensing Element Ceramic (shear mode) Case Material Stainless Steel Weight (grams) 93 Mounting Torque 24 lb-in (2.7 N-m) ¹ For full dynamic range a minimum compliance voltage of 24Vdc is recommended ² LF option offers a low frequency response to 0.1Hz ³ Contact factory for Hazardous Area Approval options				
Calibration supplied:	CS-FREQ-0100	-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±10% Frequency Response Limit		
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) ¹ / ₄ -28 to M5 mounting stud ¹ / ₄ -28 to M6 mounting stud		

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ORDERING INFORMATION

PART NUMBERING Model Number+Range

801XLF-01-GGG

1 1

I_____ Range (080 is 80g)

Low frequency option, otherwise leave blank

Electrical Connection Option (1 for 2-pin connector, 2 for integral cable)

Example: 8011-01-080

Model 8011-01, 2-pin connector, 80g range

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