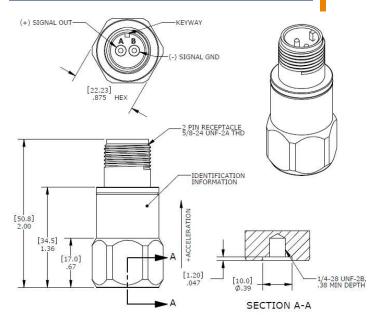
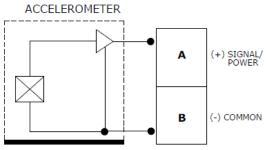


ROHS (E

DIMENSIONS





MODEL 8711-01 ACCELEROMETER

SPECIFICATIONS

- Industrial IEPE Accelerometer
- Low Cost, Quick Delivery
- -55°C to +125°C Operating Range
- Top Exit Connector

The Model 8711-01 are internally shielded rugged IEPE accelerometers designed for industrial condition monitoring. The accelerometers are available in $\pm 5g$ to $\pm 80g$ dynamic ranges and have a flat bandwidth up to greater than 10kHz. The model 8711-01 accelerometer features a top exit MIL-C-5015 connector and is designed to operate in temperature ranges from -55°C to +125°C.

FEATURES

- ±5g, ±10g, ±20g & ±80g Dynamic Ranges
- Wide bandwidth up to >10kHz
- Case Isolated, Internally Shielded
- Hermetically Sealed, Welded
- Annular Shear Mode
- Reverse Wiring Protection
- Stable Temperature Response

APPLICATIONS

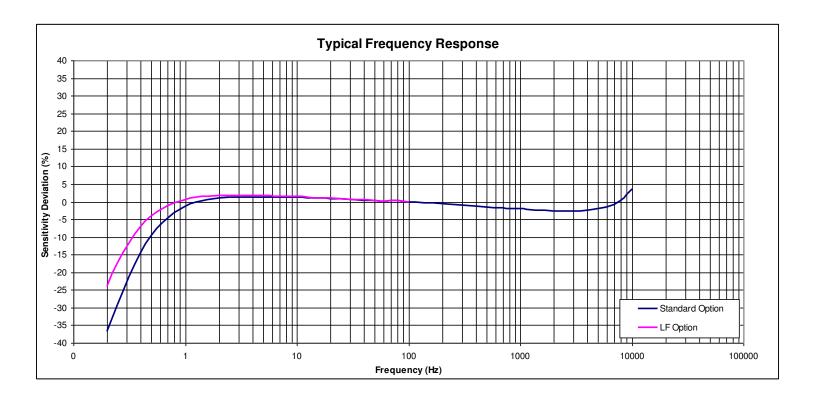
- General Purpose
- Machine Monitoring
- Industrial Applications
- Harsh Environments
- Gearbox Monitoring

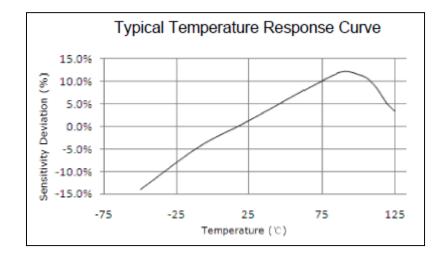
PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 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-1003 for Plug & Play 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) Weight (grams) | ±5 1000 0.3-4000 0.1-6000 20000 ±1 <5 2000 0.00003 105 | ±10 500 0.3-4000 0.1-6000 20000 ±1 <5 2000 0.00005 105 | ±20 250 1-7000 0.3-10000 32000 ±1 <5 55000 0.00010 88 | ±80 100 1-7000 0.3-10000 32000 ±1 <5 5000 0.00015 88 | Notes ±10% ±5% ±3dB | |
|--|---|---|--|---|------------------------------|--|
| ELECTRICAL Compliance Voltage (Vdc) | 18 to 30 | | | | See Note 1 | |
| Excitation Current (mA) Bias Voltage (Vdc) Output Impedance (Ω) | 2 to 10 10 to 13 <100 | | | | Room Temperature | |
| Insulation Resistance (MΩ) Warm-up Time (sec) | >100 >100 <5 | | | | @100Vdc | |
| Grounding | | ed, Internally Sh | ielded | | | |
| ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C) Humidity | | | | | | |
| PHYSICAL Sensing Element Case Material Mounting Torque | Ceramic (shear mode) Stainless Steel 24 Ib-in (2.7 N-m) | | | | | |
| ¹ For full dynamic range a minimum compliance voltage of 24Vdc is recommended | | | | | | |
| Calibration supplied: | CS-SENS-0100 NIST Traceable Amplitude Calibration at 80Hz | | | | | |
| Supplied accessories: | AC-A03663 | 1/4-28 to 1/4-28 mounting stud | | | | |
| Optional accessories: | 316A-XXX 318A-XXX AC-D03664 AC-D03665 | Cable Assem 1⁄4-28 to M5 m | Cable Assembly, Straight (XXX designates length in inches, 10ft standard) Cable Assembly, 90 Degrees (XXX designates length in inches, 10ft standard) ¼-28 to M5 mounting stud ¼-28 to M6 mounting stud | | | |

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.





ORDERING INFORMATION

PART NUMBERING Model Number+Range

8711LF-01-GGG

L

L

___ Range (080 is 80g) _ Low frequency, required for 5g and 10g ranges

Standard model numbers:

8711LF-01-005 8711LF-01-010 8711-01-020 8711-01-080