## Model 8711LF-01 Accelerometer

**EMI Shielded Industrial Accelerometer** 0.1Hz Low Frequency Response -55°C to +125°C Operating Range **Top Exit Connector or Integral Cable** 

#### The Model 8711LF-01

are internally shielded rugged IEPE accelerometer designed for harsh environments. The accelerometers are available in ±5g, ±10g & ±80g dynamic ranges and have a flat bandwidth up to greater than 10kHz. The model 8711LF-01 features a top exit MIL-C-5015 connector. The units are hermetically sealed and are designed to operating in temperature ranges from -55°C to +125°C.

# dimensions

KEYWAY

(+) SIGNAL OUT

[50.8]

[34.5]

[17.0]

) SIGNAL GND

2 PIN RECEPTACLE 5/8-24 UNE-2A THD

IDENTIFICATION INFORMATION

7/8" HEX

[1.2]

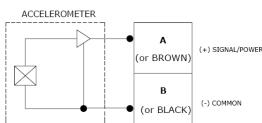
1/4-28 UNF-28 THD .25[6.4] MIN DEPTH

#### **FEATURES**

- ±5g, ±10g & ±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**

- Low Speed Purpose •
- Machine Monitoring •
- Industrial Applications •
- Harsh Environments
- Gearbox Monitoring

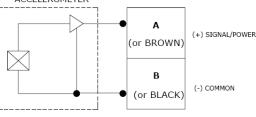


[10.0]

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Model 8711LF-01 Rev A





ROHS (F



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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 0.5-4000 0.1-10000 24000 ±1 <5 5000	±10 500 0.4-4000 0.1-10000 24000 ±1 <5 5000	±80 100 0.3-4000 0.1-10000 24000 ±1 <5 5000	<b>Notes</b> ±10% (±5% Option) ±10% ±3dB	
ELECTRICAL Compliance Voltage (Vdc) Excitation Current (mA)	18 to 30 2 to 10	18 to 30 2 to 10	18 to 30 2 to 10	See Note 1	
Bias Voltage (Vdc)	12	12	12	±2	
Output Impedance (Ω) Insulation Resistance (ΜΩ) Residual Noise (g RMS) Warm-up Time (sec) Grounding	<100 >100 0.00005 <5 Case Isolat	<100 >100 0.0001 <5 ed, Internally Shie	<100 >100 0.0003 <5 elded	@100Vdc	
<b>ENVIRONMENTAL</b> Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C)	±5 (see typical temperature response on following page) -55 to +125 -55 to +125				
PHYSICAL Sensing Element Case Material Weight (grams) Mounting Torque	Stainless S 95	Ceramic (shear mode) Stainless Steel 95 24 Ib-in (2.7 N-m)			
<sup>1</sup> For full dynamic range a minimum compliance voltage of 24Vdc is recommended					
<sup>3</sup> Contact factory for Hazardous Area Approval options					
Calibration supplied:	CS-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) ¼-28 to M5 mounting stud ¼-28 to M6 mounting stud

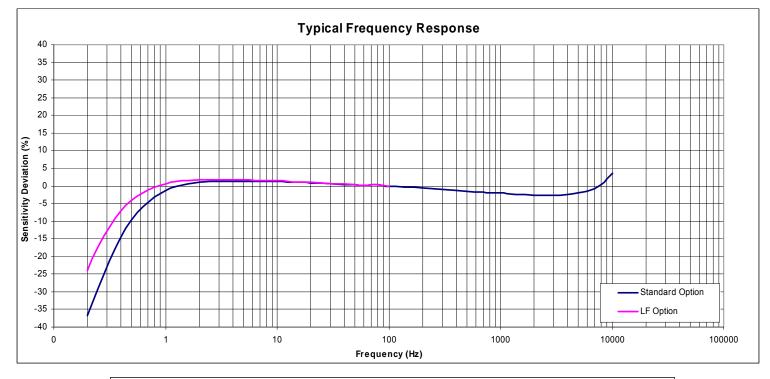
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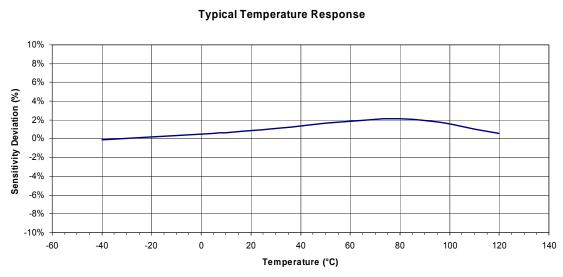
32 Journey Ste. 150 Aliso Viejo, CA 92656



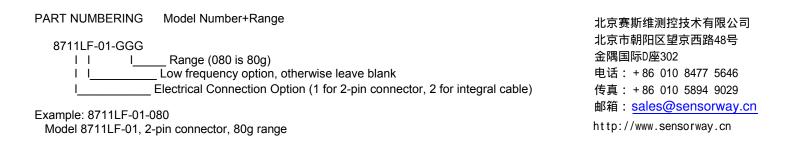
## Model 8711LF-01 Accelerometer

#### performance specifications





ordering info



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