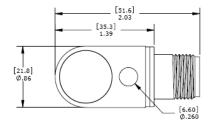
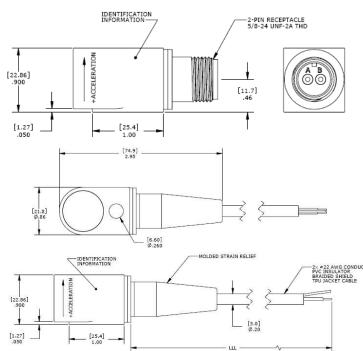






dimensions





MODEL 8021-01 & 8022-01 **ACCELEROMETER**

SPECIFICATIONS

- **EMI Shielded Industrial Accelerometer**
- 12kHz Bandwidth.
- -55°C to +125°C Operating Range.
- Side Exit Connector or Integral Cable

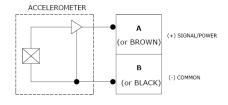
The Model 8021-01 & 8022-01 are internally shielded IEPE accelerometers designed for harsh environments. The accelerometers are available in ±10g, ±80g & ±500g dynamic ranges and have a flat bandwidth up to greater than 12kHz. The model 8021-01 features a side exit MIL-C-5015 connector while the model 8022-01 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 12kHz
- 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.

0.0003

Parameters DYNAMIC			
Range (g)	±10	±80	±500
Sensitivity (mV/g)	500	100	10
Frequency Response (Hz)	1-4000	1-8000	1-10000
Frequency Response (Hz) ²	0.5-6000	0.5-12000	0.5-15000
Natural Frequency (Hz)	28000	32000	42000
Non-Linearity (%FSO)	±1	±1	±1
Transverse Sensitivity (%)	<5	<5	<5
Shock Limit (g)	5000	5000	5000

0.00005

0.0001

Residual Noise (g RMS) **ELECTRICAL**

Compliance Voltage (Vdc) 18 to 30 Excitation Current (mA) 2 to 10 Bias Voltage (Vdc) 8 to 12 Output Impedance (Ω) <100

Insulation Resistance (MΩ) >100 Warm-up Time (sec) <1

Grounding Case Isolated, Internally Shielded

ENVIRONMENTAL

Temperature Response (%) Operating Temperature (°C) -55 to +125 Storage Temperature (°C) -55 to +125

PHYSICAL

Sensing Element Ceramic (shear mode) Case Material Stainless Steel Weight (grams) 105

Mounting Torque 24 lb-in (2.7 N-m)

CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±10% Frequency Response Limit Calibration supplied:

Supplied accessories: AC-A03735 1/4-28 captive mounting screw

Optional accessories: 316A-XXX Cable Assembly, Straight (XXX designates length in inches, 10ft standard) 318A-XXX Cable Assembly, 90 Degrees (XXX designates length in inches, 10ft standard)

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France

Sweden

Notes ±10% ±10% +3dB

See Note 1

@100Vdc

Room Temperature

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

MODEL 8021-01 & 8022-01 ACCELEROMETER

ORDERING INFORMATION

PART NUMBERING	Model Number+Range
802XLF-01-GGG-C 	ICC ICable length (120 is 120 inches)Range (080 is 80g) _Low frequency option, otherwise leave blank Electrical Connection Option (1 for 2-pin connector, 2 for integral cable)
Example: 8021-01-080 Model 8021-	0-120 -01, 2-pin connector, 80g range, 10ft (120inch) cable length

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Other countries