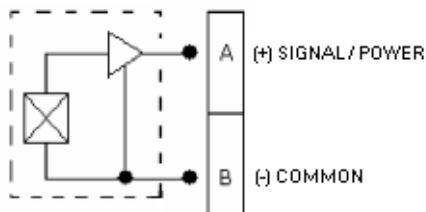
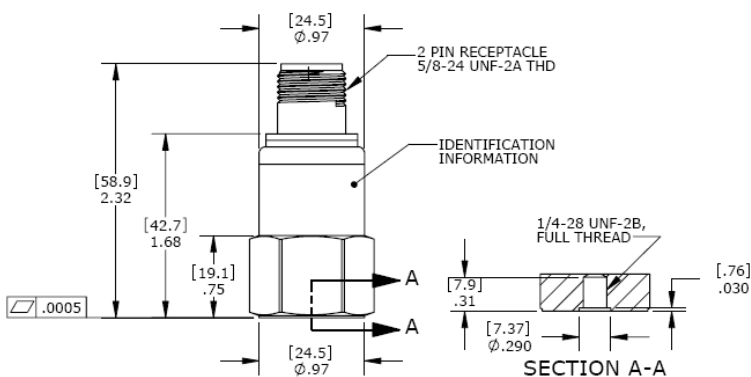
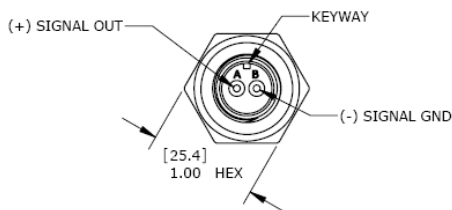




DIMENSIONS



MODEL 8011-06 PIEZO VELOCITY TRANSDUCER

SPECIFICATIONS

- ♦ IEPE Piezo Velocity Transducer
- ♦ 100mV/ips & 500mV/ips Ranges
- ♦ Case Isolated, Internally Shielded
- ♦ Low Frequency Condition Monitoring

The Model 8011-06 is an internally shielded piezo velocity transducer designed for condition monitoring of low frequency rotating machinery. The transducer is available in ranges from 10.0 to 50.0 in/sec and interfaces with the standard IEPE constant current supply. The model 8011-06 features a top exit MIL-C-5015 connector and is designed to operating in temperature ranges from -50°C to +120°C. The unit is hermetically sealed and features the popular stud mount installation.

FEATURES

- ♦ 10.0 to 50.0 in/sec Dynamic Range
- ♦ 2-7000Hz Bandwidth
- ♦ -50°C to +120°C Temperature Range
- ♦ Hermetically Sealed, Welded
- ♦ Reverse Wiring Protection
- ♦ Stable Temperature Response
- ♦ 2-Pin MIL-C-5015 Connector

APPLICATIONS

- ♦ Rotating Machinery
- ♦ Paper Mills
- ♦ Motors and Pumps
- ♦ Machine Spindles

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.

Parameters			Notes
DYNAMIC			
Dash Number	-100	-500	
Measurement Range (in/sec)	0-10	0-50	
Measurement Range (mm/sec)	0-254	0-1270	
Sensitivity (mV/in/sec)	500	100	±10%
Sensitivity (mV/mm/sec)	19.7	3.9	
Frequency Response (Hz)	3-4500	5-3500	±10%
Frequency Response (Hz)	2-7000	2-6000	±3dB
Natural Frequency (Hz)	17,000	17,000	
Non-Linearity (%FSO)	±1	±1	
Transverse Sensitivity (%)	<5	<5	
Shock Limit (g)	2500	2500	
Residual Noise (µin/sec)	25	120	1Hz to 3kHz

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	@100Vdc
Grounding	Case Isolated, Internally Shielded	

ENVIRONMENTAL	
Temperature Response (%)	±5
Operating Temperature (°C)	-50 to +120
Storage Temperature (°C)	-50 to +120
Humidity	Hermetically Sealed, IP67

PHYSICAL	
Sensing Element	Ceramic (compression mode)
Case Material	Stainless Steel
Weight (grams)	145
Mounting Torque	24 lb-in (2.7 N-m)

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±3dB Frequency Response Limit

Supplied accessories: AC-A03663 ¼-28 to ¼-28 mounting stud

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)
AC-D03664	¼-28 to M5 Mounting Stud
AC-D03665	¼-28 to M6 Mounting Stud
AC-A04209	Magnetic Mounting Adaptor
AC-D04210	Adhesive Mounting Adaptor

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ORDERING INFORMATION

PART NUMBERING

8011-06-ZZZ

I _____ Dynamic Range (100 is 0-10.0 in/sec)

-ZZZ

100 = 0-10.0 in/sec (0-1270 mm/sec)

500 = 0-50.0 in/sec (0-254 mm/sec)

Example: 8011-06-100

Model 8011-06, 0-10.0 in/sec (0-1270 mm/sec)

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