

Model 8011-06 Piezo Velocity Transducer

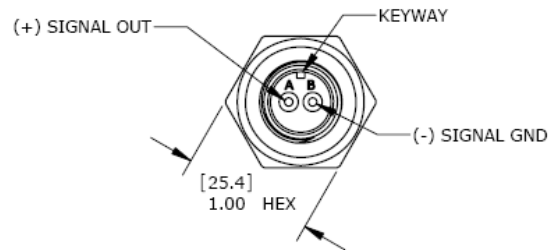


IEPE Piezo Velocity Transducer
100mV/ips & 500mV/ips Ranges
Case Isolated, Internally Shielded
Low Frequency Condition Monitoring



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.

dimensions

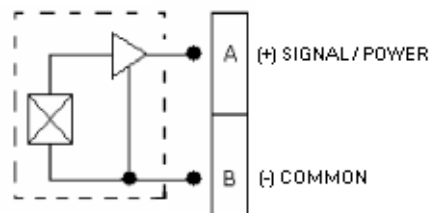
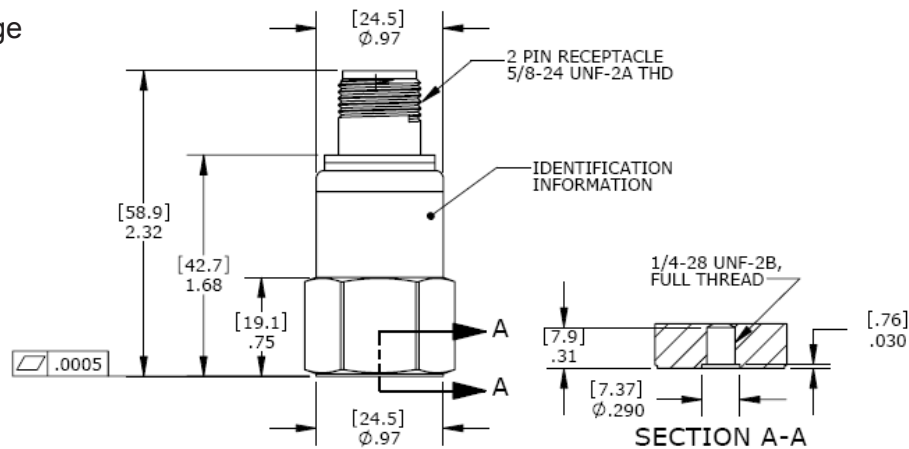


FEATURES

- 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



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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			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:	316-XXX	Cable Assembly, Straight (XXX designates length in inches, 10ft standard)	
	318-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 info

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)