

# Model 8011-06 Piezo Velocity Transducer

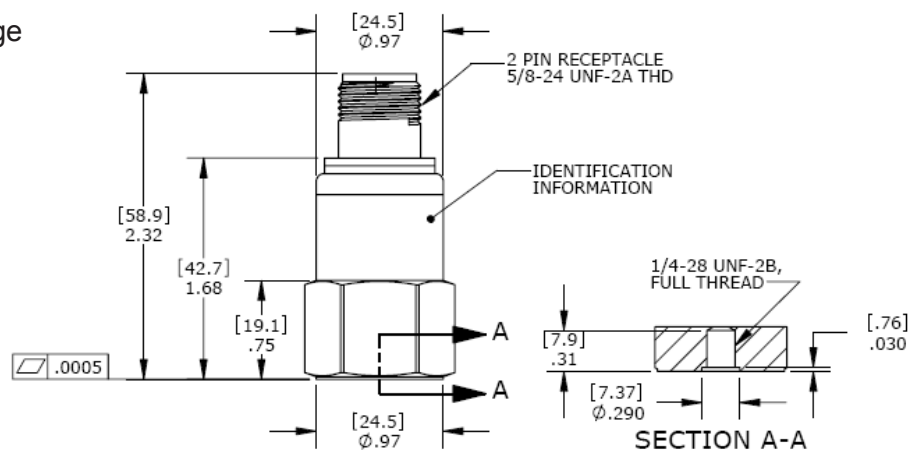
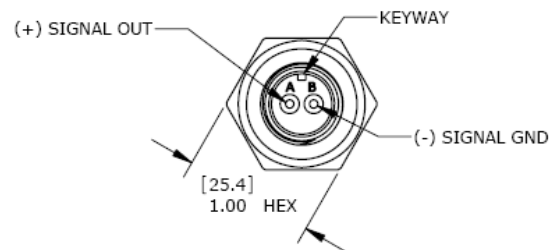


IEPE Piezo Velocity Transducer  
100mV/ips & 500mV/ips Ranges  
Case Isolated, Internally Shielded  
Low Frequency Condition Monitoring

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

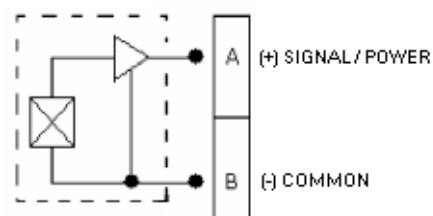


## FEATURES

- 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



# Model 8011-06 Piezo Velocity Transducer

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>			<b>Notes</b>
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

## 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)

## 联系方式



深圳市亿为测控电子有限公司  
Shenzhen Bill-Well Measurement & Control Electronics Co., Ltd.

广东省深圳市南山区创业路怡海广场东座2407 邮编：518000

电话：+86 755 2641 9890 传真：+86 755 2641 9680

电子邮箱：sales@bill-well.com