# Piezoelectric velocity sensor

## 893V

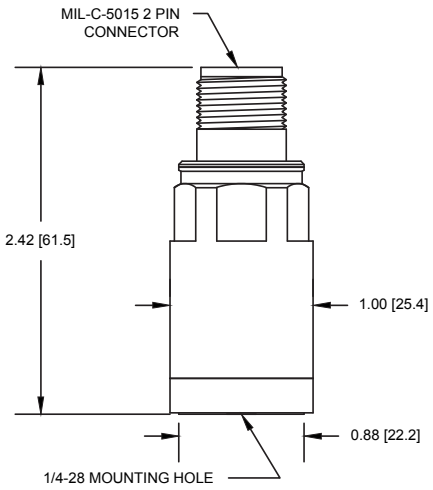
### SPECIFICATIONS

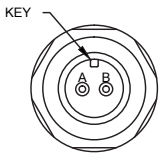
| | | |
|---|---|---|
| **Sensitivity, ±5%, 25°C** | | 100 mV/in/sec |
| **Velocity range** | | 50 in/sec peak |
| **Amplitude nonlinearity** | | 2% |
| **Frequency response:** | **±10%** | 6.0 - 2,500 Hz |
| | **±3 dB** | 4.5 - 5,000 Hz |
| **Transverse sensitivity, max** | | 5% of axial |
| **Resonance frequency, nominal** | | 15 kHz |
| **Typical deviation** | | ±5% over operating temp. range |
| **Electrical noise, equiv. in/sec:** | | |
| **Broadband** | **2.5 Hz to 25 kHz** | 150 µin/sec |
| **Spectral** | **10 Hz** | 25 µin/sec/√Hz |
| | **100 Hz** | 1.5 µ/in/sec/√Hz |
| | **1,000 Hz** | 1.0 µin/sec/√Hz |
| **Input supply current** | | 2 - 10 mA |
| **Supply voltage for current source** | | 22 - 28 VDC |
| **Output impedance, max** | | 80 Ω |
| **Bias output voltage, nominal** | | 12 VDC |
| **Grounding** | | case isolated, internally shielded |
| **Reversed polarity** | | protected |
| **Temperature range** | | –50° to +120°C |
| **Vibration limit** | | 250 g peak |
| **Shock limit, max** | | 5,000 g peak |
| **Electromagnetic sensitivity, equiv. in/sec** | | 50 µin/sec/gauss |
| **Sealing** | | hermetic |
| **Base strain sensitivity, max** | | 0.005 in/sec/µstrain |
| **Weight** | | 145 grams |
| **Case material** | | 316L stainless steel |
| **Mounting** | | 1/4-28 UNF tapped hole |
| **Output connector** | | 2 pin, MIL-C-5015 style |
| **Mating connector** | | MIL-C-5015 style |
| **Recommended cabling** | | shielded, twisted pair |

**Accessories supplied:** 1/4-28 UNF to M8 adaptor stud; calibration data


### Key features

- Efficiently designed with fewer components for more reliable measurements
- Manufactured in ISO 9001 facility




| Connections | |
|---|---|
| Function | Connector pin |
| power/signal | A |
| common | B |
| ground | shell |

CE

Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.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