

Piezoelectric velocity sensor

893V

SPECIFICATIONS

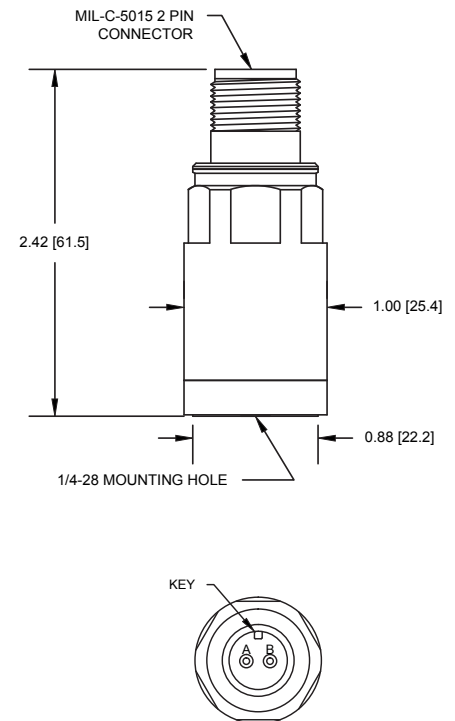
Sensitivity, $\pm 5\%$, 25°C		100 mV/in/sec
Velocity range		50 in/sec peak
Amplitude nonlinearity		2%
Frequency response:	$\pm 10\%$	6.0 - 2,500 Hz
	± 3 dB	4.5 - 5,000 Hz
Transverse sensitivity, max		5% of axial
Resonance frequency, nominal		15 kHz
Typical deviation		$\pm 5\%$ over operating temp. range
Electrical noise, equiv. in/sec:		
Broadband	2.5 Hz to 25 kHz	150 μ in/sec
Spectral	10 Hz	25 μ in/sec/ $\sqrt{\text{Hz}}$
	100 Hz	1.5 μ in/sec/ $\sqrt{\text{Hz}}$
	1,000 Hz	1.0 μ in/sec/ $\sqrt{\text{Hz}}$
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 μ in/sec/gauss
Sealing		hermetic
Base strain sensitivity, max		0.005 in/sec/ μ strain
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

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