

Piezoelectric velocity transducer

SPECIFICATIONS

Sensitivity, ±5%, 25°C		100 mV/in/sec		
Velocity range		50 in/sec peak		
Amplitude nonlinearity		±1% of F.S.		
Frequency response:	± 10% ±3 dB	2 - 6,000 Hz 1 - 12,000 Hz		
Resonance frequency, nomi	nal	30 kHz		
Transverse sensitivity, max		5% of axial		
Power requirement: Voltage source Current regulating diod		18 - 30 VDC 2 - 10 mA		
Electrical noise, equiv. in/se Broadband 2.5 Spectral	ec, nominal: Hz to 25 kHz 10 Hz 100 Hz 1,000 Hz	2,050 µin/sec rms 250 µin/sec/√Hz 12 µin/sec/√Hz 5 µin/sec/√Hz		
Output impedance, max		200 Ω		
Bias output voltage, nomina	ıl	12 VDC		
Grounding		case isolated, internally shielded		
Temperature range		–50° to +120°C		
Vibration limit		500 g peak	······	
Shock limit		5,000 g peak	—	
Electromagnetic sensitivity,	equiv. in/sec	25 µin/sec/gauss		
Sealing		hermetic		
Relative humidity		100%		
Protection rating		IP67	2.08	
Base strain sensitivity		0.0005 in/sec/µstrain		
Sensing element design		PZT, shear	······	
Weight		90 grams		
Case material		316L stainless steel		
Mounting		1/4-28 UNF tapped hole		
Output connector		2 pin, MIL-C-5015 style	1/4	
Mating connector		R6 type		
Recommended cabling		J9T2A		



SENSORS & CONTROLS

Key features

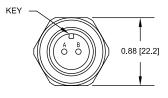
Internally integrated to velocity

- •High frequency range
- •Manufactured in ISO 9001 facility

MIL-C-5015 2 PIN CONNECTOR 2.08 [52.8] 0.86 [21.8] 0.97 [24.6] 0.75 [19.0]

Accessories supplied: SF6 mounting stud; calibration data (level 2)

Connections	
Function	Connector pin
power/signal	А
common	В
ground	shell



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

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Germany/Austria/Switzerland	Benelux	France	Sweden	USA/Canada	Other countries
info@althen.de	sales@althen.nl	info@althensensors.fr	info@althensensors.se	info@althensensors.com	info@althensensors.com