

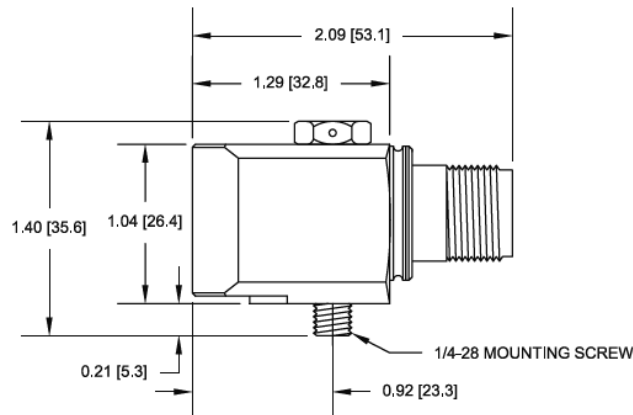
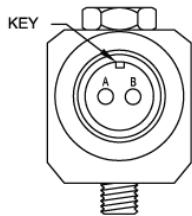
High temperature, side exit accelerometer

HT787A

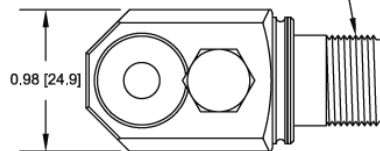


For applications in which extremely high temperature operation is needed, Wilcoxon offers the HT series of accelerometers. Dryer sections of a paper machine regularly create conditions up to 150° C. Vibration monitoring sensors must be capable of operating continuously in hot environments without degradation. HT series sensors are built with extended range components that are manufactured to withstand high temperatures for long periods of time without failing.

The side-exit HT787A 100 mV/g broadband sensor operates at high temperatures for monitoring machine vibration on a wide range of rotating equipment such as motors, pumps, fans, compressors, turbines and generators. The captive screw permits orientation at any angle, facilitating mounting in close-fitting locations and minimizing cable strain. The 316L stainless steel case provides rugged durability for most extreme environments. The sensing element is housed in a case-isolated Faraday shield, providing maximum protection from ground loops and RF interference.



MIL-C-5015 2 PIN
CONNECTOR



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.

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Wilcoxon Sensing Technologies
An Amphenol Company

Key features

- Mounts in any orientation
- Hermetically sealed
- ESD-protected
- Reverse wiring protection
- Manufactured in an approved ISO 9001 facility

Certifications



High temperature, side exit accelerometer HT787A

SPECIFICATIONS

Sensitivity, ±5%, 25° C		100 mV/g			
Acceleration range, VDC >25V		80 g peak			
Amplitude nonlinearity		1%			
Frequency response:	± 10%	1 - 5,000 Hz			
	± 3 dB	0.7 - 10,000 Hz			
Resonance frequency, nominal		22 kHz			
Transverse sensitivity, max		5% of axial			
Temperature response:	-25° C	-10%			
	+150° C	+15%			
Power requirement:					
Voltage source		18 - 30 VDC			
Current regulating diode		2 - 10 mA			
Electrical noise, equiv. g:					
Broadband	2.5 Hz to 25 kHz	25° C	150° C		
			700 µg	1100 µg	
		Spectral	10 Hz	10 µg/√Hz	14 µg/√Hz
			100 Hz	5 µg/√Hz	7 µg/√Hz
	1,000 Hz	5 µg/√Hz	7 µg/√Hz		
Output impedance, max		100 Ω			
Bias output voltage:	+25° C	13 VDC			
	+150° C	12 VDC			
Grounding		case isolated, internally shielded			
Temperature range		-50 to +150° C			
Vibration limit		500 g peak			
Shock limit		5,000 g peak			
Electromagnetic sensitivity, equiv. g, max		70 µg/gauss			
Sealing		hermetic			
Base strain sensitivity, max		0.0002 g/µstrain			
Sensing element design		PZT, shear			
Weight		145 grams			
Case material		316L stainless steel			
Mounting		1/4-28 captive screw			
Mating connector		2-pin, MIL-5015 style			
Recommended cabling		J9F, J9T2A			

Contact

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Accessories supplied:

- Calibration data (level 2)
- 1/4-28 captive screw (metric mounting available)

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