Low profile, general purpose accelerometer 787A





Wilcoxon's side-exit 100 mV/g broadband sensor is ideal for monitoring machine vibration on a wide range of rotating equipment including motors, pumps, fans, compressors, turbines and generators. A 316L stainless steel casing provides rugged durability for the most extreme environments. The sensing element is housed in a case-isolated Faraday shield, providing maximum protection from ground loops and RF interference.

Key features

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



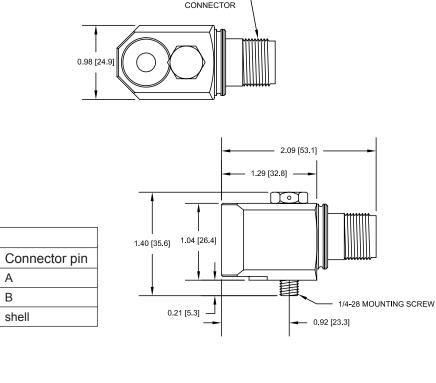
Connections

power / signal

Function

common

ground



MIL-C-5015 2 PIN

Certifications

CE

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

Wilcoxon Sensing Technologies 20511 Seneca Meadows Parkway Germantown, MD 20876 info@wilcoxon.com

Tel: (301) 330 8811 Fax: (301) 330 8873 www.wilcoxon.com Wilcoxon Sensing Technologies An Amphenol Company

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SPECIFICATIONS

	English	Metric	Contact
Sensitivity, ± 5%, 25° C	100 mV/g	9.8 mV/m/sec ²	
Acceleration range, VDC >25 V	80 g peak	784 m/sec ²	Wilcoxon Sens Technologies
Amplitude nonlinearity	1%	1%	
Frequency response: ± 10% ± 3 dB	60 - 300,000 CPM 30 - 600,000 CPM	1 - 5,000 Hz 0.5 - 10,000 Hz	20511 Seneca Me Germantown MD 2 Tel: +1 301 330 88 Fax: +1 301 330 8
Resonance frequency	1.32 kCPM	22 kHz	
Transverse sensitivity, max	5% of axial	5% of axial	info@wilcoxon.co
Temperature response: -25° C +120° C Voltage source	-10% +10% 18 - 30 VDC	-10% +10% 18 - 30 VDC	. www.wilcoxon.con
Current regulating diode	2 - 10 mA	2 - 10 mA	
Electrical noise, equiv g: Broadband 2. 5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1000 Hz	700 μg 10 μg/√Hz 5 μg/√Hz 5 μg/√Hz	6.9 x 10 ⁻³ m/sec ² 9.8 x 10 ⁻⁵ m/sec ² /√Hz 4.9 x 10 ⁻⁵ m/sec ² /√Hz 4.9 x 10 ⁻⁵ m/sec ² /√Hz	
Output impedance, max	100 Ω	100 Ω	
Bias output voltage	12 VDC	12 VDC	
Grounding	case isolated, internally shielded		
Temperature range	-58 to +248° F	-50 to +120° C	Accessories • 1/4-28 captive screw • Calibration da
Vibration limit	500 g peak	4,900 m/sec ² peak	
Shock limit	5,000 g peak	49,000 m/sec ² peak	
Electromagnetic sensitivity, equiv g, max	70 µg/gauss	6.9 x 10 ⁻⁴ m/sec ² /gauss	
Sealing	hermetic	hermetic	
Base strain sensitivity, max	0.002 g/µstrain		Calibration de
Sensing element design	PZT, shear	PZT, shear	
Weight	5.11 oz	145 g	
Case material	316L stainless steel	316L stainless steel	
Mounting	1/4-28 captive hex head screw, 0.046" diameter safety wire hole		
Output connector	2 pin, MIL-C-5015 style		
Recommended cabling	J9T2A / J9F		

sing

eadows Parkway 20876, USA

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om

s supplied:

e hex head

ata (level 2)

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