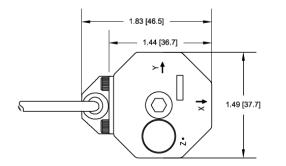
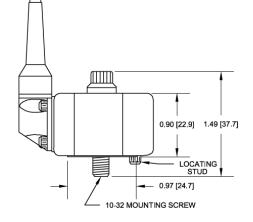
Triaxial accelerometer with integral cable 993A-5



Triaxial accelerometers consist of three sensing elements within a single housing. Wilcoxon's 993A-5 senses three mutually perpendicular axes at a single mounting location. Proponents of multi-axial sensors cite the increased speed of data collection, inherently consistent readings and reduction in wiring for permanent installations. Triaxial sensors are useful to monitor machinery with limited access to mounting areas. They provide full dynamic data over a wide frequency range in horizontal, vertical and axial directions from a single mounting location. The 993A-5 is epoxy-sealed and comes with rugged integral cabling providing a secure connection and reliable data output.



Connections			
Function	Cable conductor color		
axis X, power/signal	green		
axis Y, power/signal	red		
axis Z, power/signal	white		
common (all channels)	black		
N/C	shield		



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



Key features

- Monitors 3 axes at a time
- Easy to mount
- ESD-protectedReverse wiring
- protection
- Manufactured in an approved ISO 9001 facility

Certifications

CE

Triaxial accelerometer with integral cable 993A-5



SPECIFICATIONS

	English	Metric	Contact
Sensitivity, ±10%, 25° C	100 mV/g	10.2 mV/m/sec ²	
Acceleration range	50 g peak	490 m/sec ² peak	Wilcoxon Ser Technologies
Amplitude nonlinearity	1%	1%	
Frequency response: all channels, ±10%	2 - 2,000 Hz	2 - 2,000 Hz	20511 Seneca Germantown M
Transverse sensitivity, max	5% of axial	5% of axial	Tel: +1 301 330 Fax: +1 301 33
Temperature response: -50° C +25° C +80° C +120° C	+10% 0% +3% –7%	+10% 0% +3% –7%	info@wilcoxon.
Power requirement: Voltage source Current regulating diode	18 - 30 VDC 2 - 10 mA	18 - 28 VDC 2 - 10 mA	
Electrical noise, equiv. g: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1,000 Hz	150 μg 20 μg/√Hz 2 μg/√Hz 0.6 μg/√Hz	1471 m/sec² 19.6 m/sec²/√Hz 19.6 m/sec²/√Hz 5.9 m/sec²/√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	
Vibration limit	500 g peak	4,900 m/sec ² peak	Accessorie
Shock limit	5,000 g peak	49,000 m/sec ² peak	Calibration
Electromagnetic sensitivity, equiv. g	100 µg/gauss	245.2 m/sec ² /gauss	• #11085 cap
Sealing	ероху		
Base strain sensitivity	0.002 g/µstrain	0.019 m/sec ² /µstrain	Accessorie SF8-8 ceme metric moun Options: ca
Sensing element design	PZT, shear	PZT, shear	
Weight	3.17 oz	90 grams	
Case material	hardcoated aluminum		connector
Mounting	10-32 captive screw		
Recommended cabling	6 ft J98 integral cable	1.8 m integral cable	

ensing es

a Meadows Parkway MD 20876, USA

80 8811 30 8873

n.com

.com

ies supplied:

- n data (level 2)
- ptive screw

es available: enting pad, 10-32 nting, keyed

able length,

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