

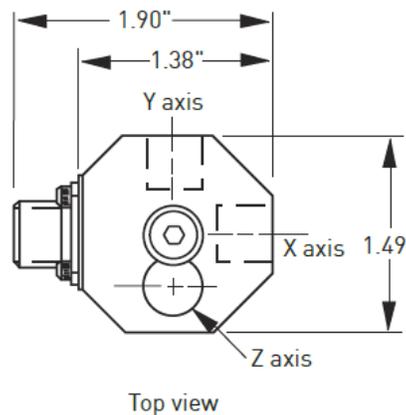
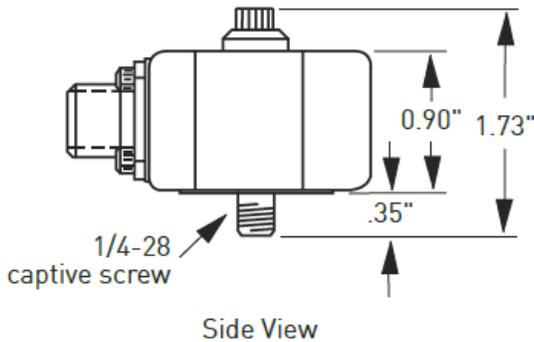
# General purpose, triaxial accelerometer

## 993A



### Key features

- Rugged design
- Easy to mount



Connections	
Function	Connector pin
N/C	shell
axis Y, power/signal	A
axis X, power/signal	B
axis Z, power/signal	C
common (all channels)	D

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

# General purpose, triaxial accelerometer 993A

## SPECIFICATIONS

<b>Sensitivity, <math>\pm 10\%</math>, 25° C</b>	100 mV/g
<b>Acceleration range</b>	50 g peak
<b>Amplitude nonlinearity</b>	1%
<b>Frequency response: all channels, <math>\pm 10\%</math></b>	2 - 2,000 Hz
<b>Transverse sensitivity, max</b>	5% of axial
<b>Temperature response:</b>	
-50° C	+10%
+25° C	0%
+80° C	+3%
+120° C	-7%
<b>Power requirement:</b>	
Voltage source	18 - 30 VDC
Current regulating diode	2 - 10 mA
<b>Electrical noise, equiv. g:</b>	
Broadband      2.5 Hz to 25 kHz	150 $\mu$ g
Spectral              10 Hz	20 $\mu$ g/ $\sqrt{\text{Hz}}$
100 Hz	2 $\mu$ g/ $\sqrt{\text{Hz}}$
1,000 Hz	0.6 $\mu$ g/ $\sqrt{\text{Hz}}$
<b>Output impedance, max</b>	100 $\Omega$
<b>Bias output voltage</b>	12 VDC
<b>Grounding</b>	case isolated, internally shielded
<b>Temperature range</b>	-50 to +120° C
<b>Vibration limit</b>	500 g peak
<b>Shock limit</b>	5,000 g peak
<b>Electromagnetic sensitivity, equiv. g</b>	100 $\mu$ g/gauss
<b>Sealing</b>	epoxy
<b>Base strain sensitivity</b>	0.0005 g/ $\mu$ strain
<b>Sensing element design</b>	PZT ceramic / shear
<b>Weight</b>	88 grams
<b>Case material</b>	hardcoated aluminum
<b>Mounting</b>	1/4-28 captive socket head screw
<b>Output connector</b>	4-pin, Bendix PC02A-8-4P
<b>Mating connector</b>	R9W
<b>Recommended cabling</b>	J9T4

## Contact

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## Accessories supplied:

- Calibration data (level 2)
- #11714-09 captive screw

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