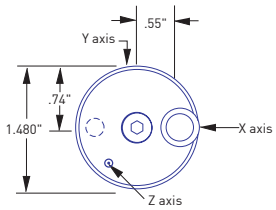
Wilcoxon Research

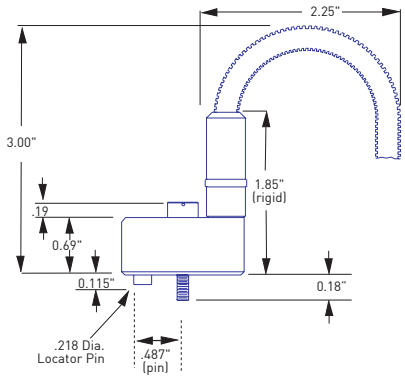
Model 993B Series
General purpose, hermetic triaxial accelerometer

Features
- Rugged hermetic design
- General purpose
- Broad frequency response
- Easy to mount
- EMI/RFI protection
- ESD protection
- Reverse wire protection
- Low noise
- Low weight
- Armor jacketed cable

	993B-5	993B-6	993B-7
Dynamic			
Sensitivity, ±10%, 25°C	25 mV/g	50 mV/g	100 mV/g
Acceleration range	160 g peak	80 g peak	40 g peak
Amplitude nonlinearity	1%	-	-
Frequency response[1]:			
Z Axis ±3 dB	2 - 10,000 Hz	-	-
X & Y axis ±3 dB	2 - 7,000 Hz	-	-
Transverse sensitivity, max.	7% of axial	-	-
Electrical			
Power Requirement: voltage source	18 - 30 VDC	-	-
current regulating diode	2 - 5 mA	-	-
Electrical noise, equiv. g, nominal:			
Broadband 2.5 Hz to 25 kHz	336 µg	220 µg	160 µg
Spectral 10 Hz	24 µg/√Hz	15 µg/√Hz	10 µg/√Hz
100 Hz	3.2 µg/√Hz	2.0 µg/√Hz	1.4 µg/√Hz
1000 Hz	2 µg/√Hz	1.1 µg/√Hz	1.0 µg/√Hz
Output impedance, max.	400 Ω	-	-
Bias output voltage	11 VDC	-	-
Grounding	case isolated, internally shielded		
Turn-on time	‹ 1 sec	-	-
Environmetal			
Temperature range	-50 to120°C	-	-
Vibration limit	500 g peak	-	-
Shock limit	5,000 g peak	-	-
Electromagnetic sensitivity, equiv.g.	100µg/gauss	-	-
Sealing	hermetic	-	-
Base strain sensitivity, max.	0.0005 g/µstrain	-	-
Hydrostatic pressure, max	100 psi (IP68)	-	-
Physical			
Weight (excluding cable)	134 grams	-	-
Case material	316L stainless steel	-	-
Cable	Intergral, 16 Ft Teflon® J9T4B, Armored		
Mounting	10-32 captive screw	-	-



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



Notes: [1] As measured using the mounting screw.

Options: M6-1 captive screw

Accessories supplied: Captive screw, calibration data.

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Due to continued research and product development, Wilcoxon Research reserves the right to amend this specification without notice.