

Model 992-1 Single axis accelerometer with connector

- Features**
- Low noise
 - Safety wire hole on case
 - Compatible with helicopter systems

Dynamic

Sensitivity, $\pm 10\%$ @ 100 Hz	10 mV/g
Frequency range:	
± 1 dB	2 Hz - 15 kHz
± 1.5 dB	2 Hz - 20 kHz
Phase shift, absolute	$<6^\circ$ @ 2.5 Hz
Phase shift, relative	$\pm 2^\circ$ max. @ 2.5 Hz
Amplitude linearity:	
$\pm 1.0\%$	to 100 g
$\pm 1.5\%$	to 300 g
Vibration limit	500 g peak
Transverse sensitivity, max.	5%

Electrical

Power requirement	2 mA $\pm 5\%$ at a reference of 18 - 30 VDC
Electrical noise, equivalent.g, nominal:	
Broadband 2.5Hz to 25kHz	0.002g
Spectral noise, nominal:	
10 Hz	40 $\mu\text{g}/\sqrt{\text{Hz}}$
100 Hz	20 $\mu\text{g}/\sqrt{\text{Hz}}$
1000 Hz	8 $\mu\text{g}/\sqrt{\text{Hz}}$

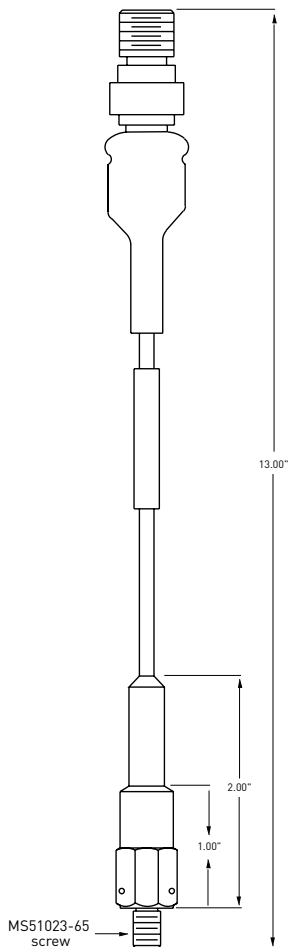
Environmental

Temperature range ¹	-35 °C to 100 °C
Shock limit	10,000 g peak
Electromagnetic sensitivity	$<300 \mu\text{g}/\text{gauss}$
Base strain sensitivity	$<0.005 \text{ g}/\mu\text{strain}$
Acoustic sensitivity	$<0.004 \text{ g}/100 \text{ dB SPL}$

Physical

Output impedance	600 Ω
Bias voltage	8 VDC, ± 1.5 VDC
Resonance, nominal	35 kHz
Weight	45 grams
Case material	stainless steel
Electrical isolation	case isolated
Mounting	1/4 - 28 UNF
Cable	two conductors, with 100% overall shield
Connector	PC01A-8-4P

Notes: ¹ $\pm 15\%$ max change in sensitivity over temperature range
Accessories supplied: MS 51023-65 mounting screw epoxied in place



Connections

Pinout	Function
A	signal/power
B	no connection
C	no connection
D	common
Shell	shield

Export classification: USML VIII (h)

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ALTHEN reserves the right to vary the foregoing details without prior notice



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