HS-100F Accelerometer

AC acceleration output via Flame Retardant Cable

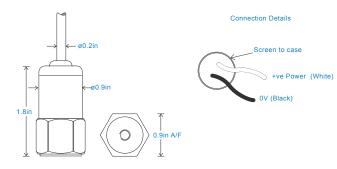
Key Features

- · Low smoke, halogen free cable
- For use with data collector
- Customisable features

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical





Technical Performance

Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table ±10%
	Nominal 80Hz at 72°F
Frequency Response	90cpm (1.5Hz) to 600kcpm (10kHz) ± 5%
	30cpm (0.5Hz) to 720kcpm (12kHz) ± 10%
	12cpm (0.2Hz) to 900kcpm (15kHz) ± 3dB
Isolation	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

Case Material	Stainless Steel
Sensing Element/Construct	tion PZT/Compression
Mounting Torque	5.9ft. Ibs
Weight	3.7 oz. (nominal) body only
Maximum Cable Length	3,280 ft.
Standard Cable Length	16 ft.
Shielded Cable	Flame Retardant - length to be specified with order
Mounting Threads	see: 'How To Order' table

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Electrical	
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Excitation Voltage	18-30Volts DC
Electrical Noise	0.1mg max
Current Range	0.5mA to 8mA
Bias Voltage	10 - 12 Volts DC
Settling Time	2 seconds
Output Impedance	200 Ohms max.
Case Isolation	>10 ⁸ Ohms at 500 Volts

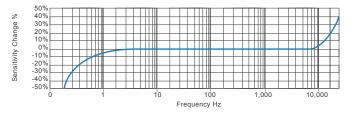
Environmental

Mechanical

Operating Temperature Range Sealing Maximum Shock EMC

-40 to 212°F
IP65
5000g
EN61326-1:2013

Typical Frequency Response (at 100mV/g)



Applications

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment

Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



How To Order

Product Prefix I HS - Hansford Sensors					Length length spe	cified in f	eet		
H S 1	0 0 F	X	X	x x	X X	X	X	X	X
Extra Options (if required) F - Filtered I - Intrinsically Safe L - 316L Stainless Steel RT - Temperature Output PT10 T - Temperature Output Y - 5% tolerance on sensitivi	250 - 250mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resonant F 1,680kcpm 1,560kcpm 1,440kcpm 1,320kcpm 1,200kcpm 1,080kcpm	requency (28kHz) (26kHz) (24kHz) (22kHz) (20kHz) (18kHz)	Cable/Connecto 01 - PUR 02 - Braided 07 - Silicon 08 - Flame Retar 50 - 2 Pin MS 54 - M12		01 - ¼- 02 - ¼- 05 - Qu 06 - M6 08 - M8	ng Threa 28" UNF I 28" UNF I iick Fit Fe 3 x 1mm M 3 x 1.25mi 10 x 1.5mi	Female Male male Male m Male



www.hansfordsensors.com sales@hansfordsensors.com



We reserve the right to alter the specification of this product without prior notice \$\$T\$\$127U.5