

HS-100S Accelerometer

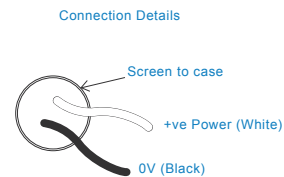
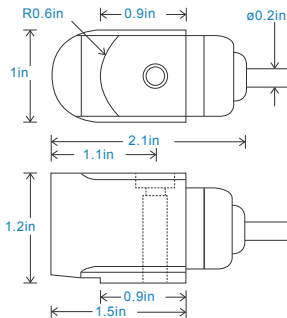
AC acceleration output via Braided Cable

Key Features

- For use with data collector
- Side entry for easy access
- Customizable 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%
Frequency Response	Nominal 80Hz at 72°F
	120cpm (2Hz) to 600kcpm (10kHz) ± 5%
	90cpm (1.5Hz) to 720kcpm (12kHz) ± 10%
Isolation	48cpm (0.8Hz) to 900kcpm (15kHz) ± 3dB
	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	5.9ft. lbs
Mounting Bolt provided	see: 'How To Order' table x 1.2in long
Weight	6.5 oz. (nominal) body only
Maximum Cable Length	3,280 ft.
Standard Cable Length	16 ft.
Shielded Cable	Braided - length to be specified with order
Mounting Threads	see: 'How To Order' table

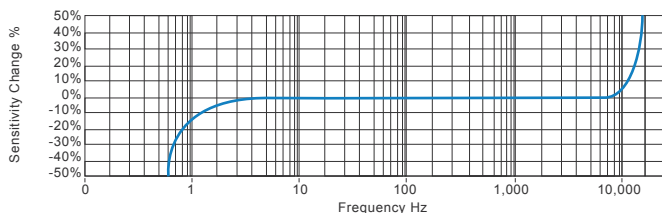
Electrical

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

Operating Temperature Range	-67 to 284°F
Sealing	IP65
Maximum Shock	5000g
EMC	EN61326-1:2013

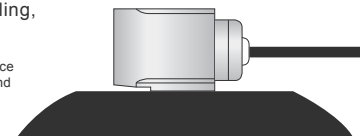
Typical Frequency Response (at 100mV/g)



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	Product Series	Cable Length												
HS - Hansford Sensors	100 - Industrial Vibration Sensor	UXX - length specified in feet												
H	S	1	0	0	S	X	X	X	X	X	X	X	X	X
Extra Options (if required)		Sensitivity	Range	Resonant Frequency		Cable/Connector			Mounting Threads					
F - Filtered	010 - 10mV/g	±800g	1,620kcpm (27kHz)	01 - PUR	02 - ¼-28" UNF Male									
L - 316L Stainless Steel	030 - 30mV/g	±250g	1,500kcpm (25kHz)	02 - Braided	06 - M6 x 1mm Male									
RT - Temperature Output PT100	050 - 50mV/g	±160g	1,380kcpm (23kHz)	07 - Silicon	08 - M8 x 1.25mm Male									
S - 90° Side Exit	100 - 100mV/g	±80g	1,260kcpm (21kHz)	08 - Flame Retardant										
T - Temperature Output	250 - 250mV/g	±32g	1,140kcpm (19kHz)	50 - 2 Pin MS										
Y - 5% tolerance on sensitivity	500 - 500mV/g	±16g	1,020kcpm (17kHz)	54 - M12										



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We reserve the right to alter the specification of this product without prior notice

TS010U.5

