

HS-160 Accelerometer

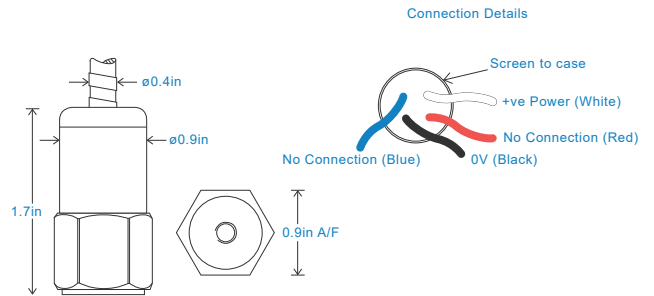
AC velocity output via FEP Cable with Protective Conduit

Key Features

- For use with data collector
- AC velocity output
- Protective Conduit

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 $\pm 10\%$ Nominal 80Hz at 72°F
Frequency Response	180cpm (3Hz) to 270kcpm (4.5kHz) $\pm 10\%$ 120cpm (2Hz) to 360kcpm (6kHz) $\pm 3\text{dB}$
Isolation	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
Weight	3.7 oz. (nominal) body only
Shielded Cable Assembly	see: www.hansfordsensors.com for options
Maximum Cable Lengths	3,280ft.
Standard Cable Lengths	16ft.
Mounting Threads	see 'How To Order' Table
Conduit Material	304 Stainless Steel
Conduit Length	Conduit Length is approx. 1.6ft shorter than the cable

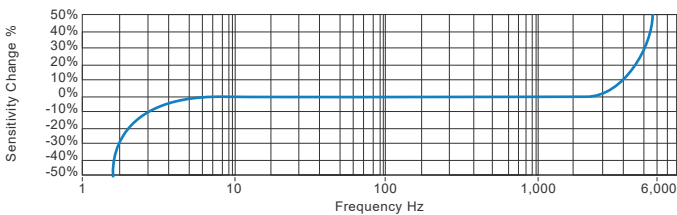
Electrical

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

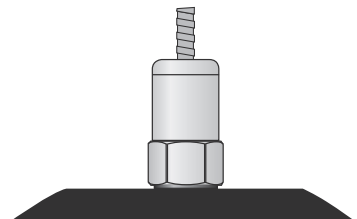
Typical Frequency Response



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 HS - Hansford Sensors	Product Series 160 - Industrial Vibration Sensor	Cable Length (if integral cable) UXX - length specified in feet													
H	S	1	6	0	X	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensitivity		Sensitivity 004 - 100mV/in/s 025 - 625mV/in/s (other sensitivities available on request)	Range (pk) 40 IPS 10 IPS	Resonant Frequency 1,320kcpm (22kHz) 1,320kcpm (22kHz)	Cable/Connector 30C - FEP with Protective Conduit	Mounting Threads 02 - 1/4-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male									



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

TS791.2

