HS-170ST Premium Accelerometer

AC acceleration and temperature output via 3 Pin MS Connector

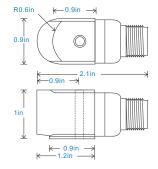
Key Features

- Temperature output
- · Side entry for easy access
- Compact and premium design



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





Pin A +ve Accel (White) Pin C +ve Temp Ő Ő С Pin B 0V (Black)

Connection Details

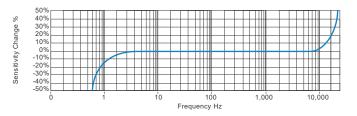
Technical	Performance
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Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table ±10%
	Nominal 80Hz at 72°F
Frequency Response	120cpm (2Hz) to 840kcpm (14kHz) ± 5%
	90cpm (1.5Hz) to 960kcpm (16kHz) ± 10%
	48cpm (0.8Hz) to 1,140kcpm (19kHz) ± 3dB
Isolation	Base isolated
Range	see: 'How To Order' table
Temperature Output	10 mV/ºC standard 212°F - Option 266°F
Transverse Sensitivity	Less than 5%

Mechanical	
Case Material	Stainless Steel
Sensing Element/Construction	PZT/Shear
Mounting Torque	5.9ft. lbs
Mounting Bolt Provided	see: 'How To Order' table x 1.2in long
Weight	4.7 oz. (nominal) body only
Connector	Use booted connector only
Mounting Threads	see: 'How To Order' table

Electrical		Environmental
Electrical Noise	0.1mg max	Operating Temperature Range
Current Range	0.5mA to 8mA	Sealing
Bias Voltage	10 - 12 Volts DC	Maximum Shock
Settling Time	1 second	EMC
Output Impedance	200 Ohms max.	
Case Isolation	>10 ⁸ Ohms at 500 Volts	

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.)



-67 to 300°F IP68 5000g

EN61326-1:2013

How To Order

Product Prefix HS - Hansford Sensors		oduct Series 0 - Compact Premium Industrial Vibration Sensor									
H S 1	7	0	S	т	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered L - 316L Stainless Steel S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensit		030 - 050 - 100 - 250 -	ivity 10mV/g 30mV/g 50mV/g 100mV/g 250mV/g 500mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resonan 1,800kcp 1,680kcp 1,560kcp 1,440kcp 1,320kcp 1,200kcp	om (301 om (281 om (261 om (241 om (221	ncy kHz) kHz) kHz) kHz) kHz) kHz)	01 - PI 03 - Br 07 - Si 15 - FI	aided licon ame Retar Pin MS		Mounting Threads 02 - ¼-28" UNF Ma 06 - M6 x 1mm Mal 08 - M8 x 1.25mm I



www.hansfordsensors.com sales@hansfordsensors.com



We reserve the right to alter the specification of this product without prior notice TS223U.5