# **HS-170ST Premium Accelerometer**

AC acceleration and temperature output via 3 Pin MS Connector

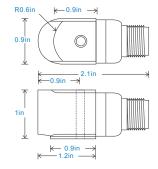
#### **Key Features**

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



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





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

**Connection Details** 

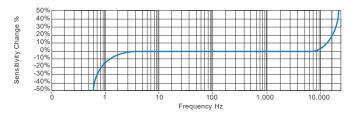
#### **Technical Performance**

Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table ±10%
	Nominal 80Hz at 72°F
Frequency Response	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/°C standard 212°F - Option 300°F
Transverse Sensitivity	Less than 5%

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Shear
Mounting Torque	5.9ft. Ibs
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 <sup>8</sup> Ohms at 500 Volts	

## Typical Frequency Response (at 100mV/g)



# -67 to 300°F EN61326-1:2013

IP68 5000g

#### Applications

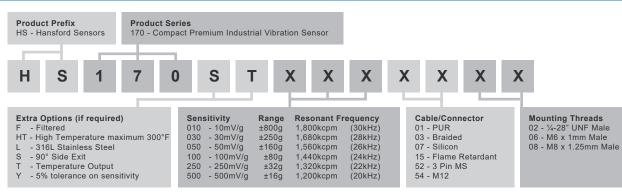
Mechanical

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





www.hansfordsensors.com sales@hansfordsensors.com



We reserve the right to alter the specification of this product without prior notice TS223U.7