# **HS-170 Premium Accelerometer**

AC acceleration output via M12 Connector

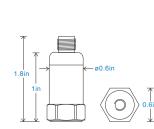
#### **Key Features**

- Compact design
- Premium design
- Customisable features

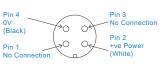
#### Industries

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









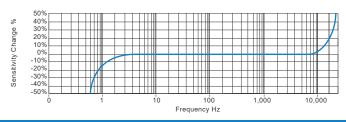
#### Technical Performance

Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table ±10%
	Nominal 80Hz at 72°F
Frequency Response	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
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 1in long
Weight	1.8 oz. (nominal)
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)



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

EN61326-1:2013

IP67 5000g

#### How To Order

<b>Product Prefix</b> HS - Hansford Sensors	<b>Product Se</b> 170 - Comp	<b>ct Series</b> Compact Premium Industrial Vibration Sensor			ensor					Cable Length (if integral cable) QXX - length specified in metres			
H S 1	7	0 X	X	X	X	X	X	X	X	X	X	X	
Extra Options (if required) F - Filtered L - 316L Stainless Steel S - 90° Side Exit Y - 5% tolerance on sensit	0 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0:	ensitivity 10 - 10mV/g 30 - 30mV/g 50 - 50mV/g 00 - 100mV/g 50 - 250mV/g 00 - 500mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resona 30kHz 28kHz 26kHz 24kHz 22kHz 20kHz	nt Frequer (1,800kc) (1,680kc) (1,560kc) (1,440kc) (1,320kc) (1,200kc)	pm) pm) pm) pm) pm)	01 - Pl 02 - Br 07 - Si 08 - Fl	aided licon ame Retai Pin MS		01 - 1/4 02 - 1/4 06 - M 08 - M	<b>ing Threa</b> -28" UNF I -28" UNF I 6 x 1mm M 8 x 1.25m 10 x 1.5m	Female Male Iale m Male	



## www.hansfordsensors.com sales@hansfordsensors.com

We reserve the right to alter the specification of this product without prior notice TS801U.5

