# HS-170 Premium Accelerometer

AC acceleration output via M12 Connector

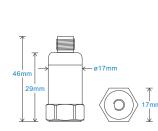
## **Key Features**

- Compact design
- Premium design
- Customisable features

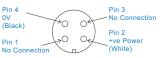
## Industries

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







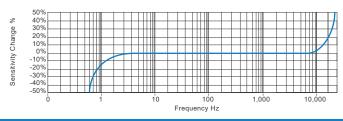


#### **Technical Performance** Mounted Base Resonance see 'How To Order' table (nominal) Sensitivity see: 'How To Order' table ±10% Nominal 80Hz at 22°C Frequency Response 2Hz (120cpm) to 14kHz (840kcpm) ± 5% 1.5Hz (90cpm) to 16kHz (960kcpm) ± 10% 0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB Isolation Base isolated Range see: 'How To Order' table Transverse Sensitivity Less than 5%

Mechanical	
Case Material	Stainless Steel
Sensing Element/Construction	PZT/Shear
Mounting Torque	8 Nm
Mounting Bolt Provided	see: 'How To Order' table x 30mm long
Weight	52gms (nominal)
Connector	Use booted connector only
Mounting Threads	see: 'How To Order' table

Electrical		Environmental					
Electrical Noise	0.1mg max	Operating Temperature Range	-55 to 150°C				
Current Range	0.5mA to 8mA	Sealing	IP67				
Bias Voltage	10 - 12 Volts DC	Maximum Shock	5000g				
Settling Time	1 second	EMC	EN61326-1:2013				
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.)



## How To Order

		<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 sensi	010 030 050	- 30mV/g - 50mV/g - 100mV/g - 250mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resona 30kHz 28kHz 26kHz 24kHz 22kHz 20kHz	nt Frequen (1,800kcp (1,680kcp (1,560kcp (1,440kcp (1,320kcp (1,200kcp	om) om) om) om) om)	02 - Br 08 - Fl	ame Retai Pin MS		01 - 1/4 02 - 1/4 06 - M 08 - M	ing Threa 28" UNF I 28" UNF I 6 x 1mm M 3 x 1.25mi 10 x 1.5mi	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 TS801.4

