# **HS-170S Premium Accelerometer**

AC acceleration output via PUR Cable

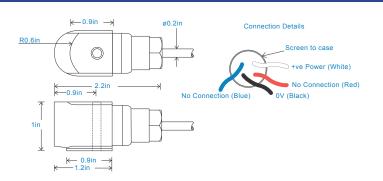
### **Key Features**

- · Compact and Premium design
- Waterproof
- · Resistent to oil



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





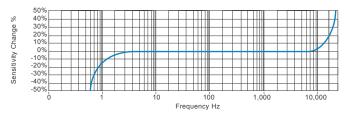
#### **Technical Performance**

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%

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)
Maximum Cable Length	3,280 ft.
Standard Cable Length	16 ft.
Shielded Cable	PUR - length to be specified with order
Mounting Threads	see: 'How To Order' table
Submersible Depth	328 ft. max (10 bar)

	Electrical		Environmental
	Electrical Noise	0.1mg max	Operating Temperature
	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)



Range

-22 to 194°F
IP68
5000g
N61326-1:2013

#### 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

			t Series ompact Premium Industrial Vibration Sensor								Cable Length (if integral cable) UXX - length specified in feet			
H S 1	7	0	S	X	X	X	X	X	X	X	X	X	X	
Extra Options (if required F - Filtered L - 316L Stainless Steel RT - Temperature Output P S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sens	, Т100	030 - 050 - 100 - 250 -	ivity 10mV/g 30mV/g 50mV/g 100mV/g 250mV/g 500mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resonant 1,800kcpi 1,680kcpi 1,560kcpi 1,440kcpi 1,320kcpi 1,200kcpi	m (30) m (28) m (26) m (24) m (22)	ncy (Hz) (Hz) (Hz) (Hz) (Hz)	01 - PU 02 - Br 07 - Si 08 - Fla	aided licon ame Retar Pin MS		02 - ¼ 06 - M	t <b>ing Threa</b> -28″ UNF ∣ 6 x 1mm № 8 x 1.25m	Male Male	



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We reserve the right to alter the specification of this product without prior notice TS312.4

