

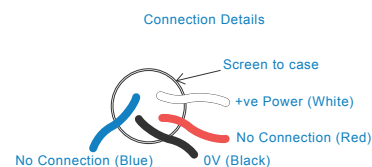
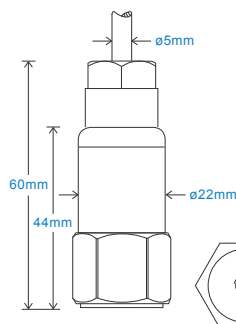
AC acceleration output via PUR Cable

Key Features

- Most common seller
- For use with data collector
- Customisable features

Industries

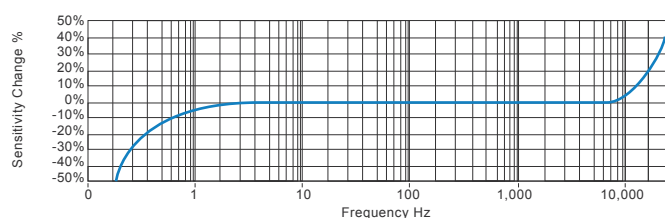
Building services, Pulp and Paper,
Mining, Metals, Utilities, Automotive,
Water, Pharmaceutical



Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table $\pm 10\%$	Sensing Element/Construction	PZT/Compression
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) $\pm 5\%$	Weight	106gms (nominal) body only
	0.5Hz (30cpm) to 12kHz (720kcpm) $\pm 10\%$	Maximum Cable Length	1000 metres
	0.2Hz (12cpm) to 15kHz (900kcpm) $\pm 3\text{dB}$	Standard Cable Length	5 metres
Isolation	Base isolated	Screened Cable	PUR - length to be specified with order
Range	see: 'How To Order' table	Mounting Threads	see: 'How To Order' table
Transverse Sensitivity	Less than 5%	Submersible Depth	100 metres max (10 bar)

Electrical		Environmental	
Excitation Voltage:	18-30Volts DC	Operating Temperature Range	-30 to 90°C
Electrical Noise	0.1mg max	Sealing	IP68
Current Range	0.5mA to 8mA	Maximum Shock	5000g
Bias Voltage	10 - 12 Volts DC	EMC	EN61326-1:2013
Settling Time	2 seconds		
Output Impedance	200 Ohms max.		
Case Isolation	>10 ⁸ Ohms at 500 Volts		

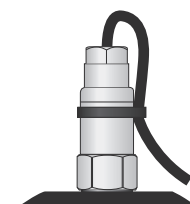
Typical Frequency Response (at 100mV/g)



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.)



How To Order

Product Prefix
HS - Hansford Sensors

Product Series
100 - Industrial Vibration Sensor

Cable Length
QXX - length specified in metres

Extra Options (if required)
 F - Filtered
 I - Intrinsically Safe
 L - 316L Stainless Steel
 RT - Temperature Output PT100
 T - Temperature Output
 Y - 5% tolerance on sensitivity

Sensitivity
 010 - 10mV/g
 030 - 30mV/g
 050 - 50mV/g
 100 - 100mV/g
 250 - 250mV/g
 500 - 500mV/g

Range
 ±800g
 ±250g
 ±160g
 ±80g
 ±32g
 ±16g

Resonant Frequency
 28kHz (1,680kcpm)
 26kHz (1,560kcpm)
 24kHz (1,440kcpm)
 22kHz (1,320kcpm)
 20kHz (1,200kcpm)
 18kHz (1,080kcpm)

Cable/Connector
 01 - PUR
 02 - Braided
 07 - Silicon
 08 - Flame Retardant
 50 - 2 Pin MS
 54 - M12

Mounting Threads
 01 - ¼-28" UNF Female
 02 - ½-28" UNF Male
 05 - Quick Fit Female
 06 - M6 x 1mm Male
 08 - M8 x 1.25mm Male
 10 - M10 x 1.5mm Male



www.hansfordsensors.com
sales@hansfordsensors.com

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

TS466.3

