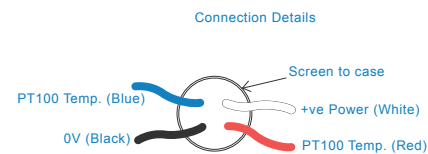
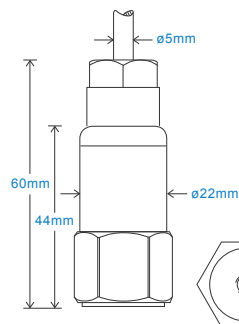


AC acceleration and PT100 temperature output via PUR Cable

- Temperature output PT100
- Filtered output
- Waterproof and resistant to oil

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



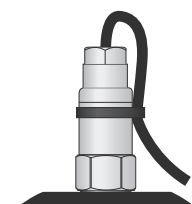
Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table $\pm 10\%$	Sensing Element/Construction	PZT/Compression
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	1.5Hz (90cpm) to 10kHz (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
Temperature Output	PT100 (100 Ohms)	Submersible Depth	100 metres max (10 bar)
Transverse Sensitivity	Less than 5%		

Electrical		Environmental	
Excitation Voltage	18-30 Volts 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		

Frequency (Hz)	Sensitivity Change (%)
0.1	-45
1	-5
10	0
100	0
1,000	0
10,000	0
20,000	40

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		Product Series										Cable Length				
HS - Hansford Sensors		100 - Industrial Vibration Sensor										QXX - length specified in metres				
H	S	1	0	0	F	R	T	X	X	X	X	X	X	X	X	
Extra Options (if required)			Sensitivity		Range		Resonant Frequency		Cable/Connector			Mounting Threads				
F - Filtered			010 - 10mV/g		±800g		28Hz (1,680kcpm)		01 - PUR			01 - ¼-28" UNF Female				
L - 316L Stainless Steel			030 - 30mV/g		±250g		26kHz (1,560kcpm)		54 - M12			02 - ¼-28" UNF Male				
RT - Temperature Output PT100			050 - 50mV/g		±160g		24kHz (1,440kcpm)					05 - Quick Fit Female				
S - 90° Side Exit			100 - 100mV/g		±80g		22kHz (1,320kcpm)					06 - M6 x 1mm Male				
Y - 5% tolerance on sensitivity			250 - 250mV/g		±32g		20kHz (1,200kcpm)					08 - M8 x 1.25mm Male				
			500 - 500mV/g		±16g		18kHz (1,080kcpm)					10 - M10 x 1.5mm Male				



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

TS455.7

