

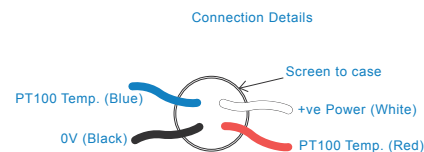
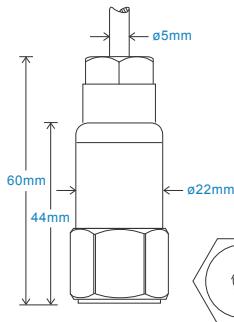
AC acceleration and PT100 temperature output via PUR Cable

Key Features

- Temperature output PT100
- Waterproof
- Resistant to oil

Industries

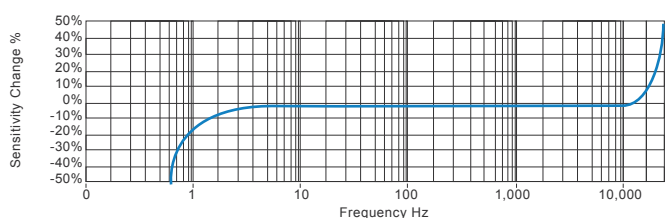
Building services, Pulp and Paper,
Mining, Metals, Utilities, Automotive,
Water, Pharmaceutical



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	2Hz (120cpm) to 10kHz (600kcpm) $\pm 5\%$	Weight	106gms (nominal) body only
	1.5Hz (90cpm) to 12kHz (720kcpm) $\pm 10\%$	Maximum Cable Length	1000 metres
	0.8Hz (48cpm) 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		

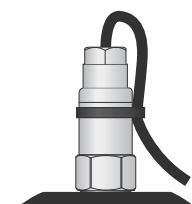
Typical Frequency Response (at 100mV/g)



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		Product Series					Cable Length								
HS - Hansford Sensors		100 - Industrial Vibration Sensor					QXX - length specified in metres								
H	S	1	0	0	R	T	X	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		34kHz (2,040kcpm)		01 - PUR		01 - ¼-28" UNF Female					
I - Intrinsic Safe		030 - 30mV/g		±250g		33kHz (1,980kcpm)		54 - M12		02 - ¼-28" UNF Male					
L - 316L Stainless Steel		050 - 50mV/g		±160g		32kHz (1,920kcpm)				05 - Quick Fit Female					
RT - Temperature Output PT100		100 - 100mV/g		±80g		30kHz (1,800kcpm)				06 - M6 x 1mm Male					
S - 90° Side Exit		250 - 250mV/g		±32g		28kHz (1,680kcpm)				08 - M8 x 1.25mm Male					
Y - 5% Tolerance on sensitivity		500 - 500mV/g		±16g		26kHz (1,560kcpm)				10 - M10 x 1.5mm Male					



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

TS291.9

