HS-150RT Premium Accelerometer
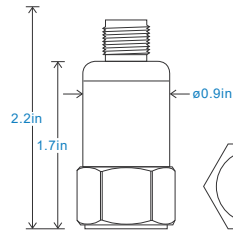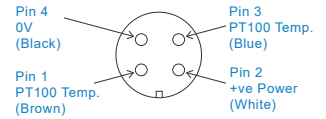## AC acceleration and PT100 temperature output via M12 Connector

Key Features
• Temperature output PT100
• Premium design
• Customizable features

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

Connection Details

Pin 4
0V
(Black)

Pin 3
PT100 Temp.
(Blue)

Pin 1
PT100 Temp.
(Brown)

Pin 2
+ve Power
(White)

2.2in
1.7in
ø0.9in
0.9in A/F

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	90cpm (1.5Hz) to 600kcpm (10kHz) ± 5%
	30cpm (0.5Hz) to 720kcpm (12kHz) ± 10%
	12cpm (0.2Hz) to 900kcpm (15kHz) ± 3dB
Isolation	Base isolated
Range	see: 'How To Order' table
Temperature Output	PT100 (100 Ohms)
Transverse Sensitivity	Less than 5%

Mechanical

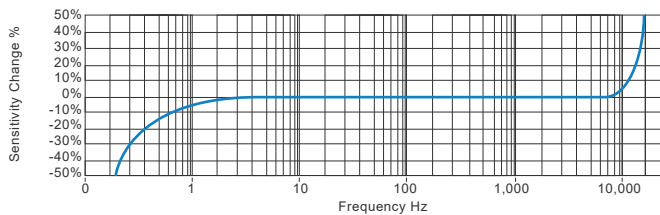|	
Case Material	Stainless Steel
Sensing Element/Construction	PZT/Shear
Mounting Torque	5.9ft. lbs
Weight	3.7 oz. (nominal) body only
Sheilded Cable Assembly	HS-AC010 - straight
	HS-AC011 - right angle
Mounting Threads	see: 'How To Order' table

Electrical

Electrical Noise	0.1mg max
Current Range	0.5mA to 8mA
Bias Voltage	10 - 12 Volts DC
Settling Time	1 second
Output Impedance	200 Ohms max.
Case Isolation	$>10^8$ Ohms at 500 Volts

Environmental

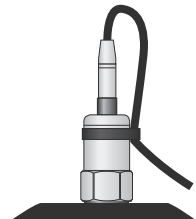|	
Operating Temperature Range	-67 to 300°F
Sealing	IP67
Maximum Shock	5000 g
EMC	EN61326-1:2013

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
150 - Premium Industrial Vibration Sensor

| H | S | 1 | 5 | 0 | R | T | X | X | X | X | X | X | X |

Extra Options (if required)
F - Filtered
L - 316L Stainless Steel
RT - Temperature Output PT100
S - 90° Side Exit
Y - 5% tolerance on sensitivity

Sensitivity	Range	Resonant Frequency	
010 - 10mV/g	±800g	1,680kcpm	(28kHz)
030 - 30mV/g	±250g	1,560kcpm	(26kHz)
050 - 50mV/g	±160g	1,440kcpm	(24kHz)
100 - 100mV/g	±80g	1,320kcpm	(22kHz)
250 - 250mV/g	±32g	1,200kcpm	(20kHz)
500 - 500mV/g	±16g	1,080kcpm	(18kHz)

Cable/Connector
01 - PUR
54 - M12

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

Hansford Sensors
Excellence in Vibration Monitoring

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

TS285U.8