

HS-420SRT Series Vibration Sensor

Low Profile, M12 Connector, Dual Output - 4-20mA and Temperature (PT100)



Typical Applications

- Proven use in vibration monitoring for offline applications using commercially available data collectors and online monitoring systems in the fields of Building Services, Civil Engineering, Paper and Pulp, Mining, Metals Manufacture, Utilities, Automotive, Water and Waste Treatment, Pharmaceutical, Aerospace, etc.
- **Protecting...**
Fans, Motors, Pumps, Compressors, Centrifuges, Conveyers, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, HVAC, Spindles, Machine Tooling, Process Equipment and many more.

Technical Performance

Mounted Base Resonance	5 kHz min.
Velocity Ranges	0-10 to 0-100 mm/sec RMS (5 ranges)
Frequency Response	10 Hz to 1 kHz $\pm 5\%$ - ISO10816
Isolation	Base isolated
Measurement Range	50 g
Temperature	PT100 (100 Ohms)
Transverse Sensitivity	Less than 5%

Electrical

Output Current	4-20 mA DC proportional to RMS velocity (mm/s)
Supply Voltage	15 - 30 Volts DC (for 4-20 mA)
Settling Time	2 seconds
Output Impedance	Loop Resistant 600 Ohms max. at 24 Volts
Case Isolation	$>10^8$ Ohms at 500 Volts

Environmental

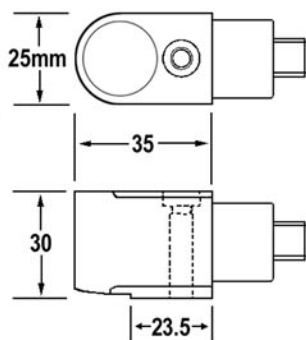
Operating Temperature Range	-55 to 100 °C
Sealing	IP67
Maximum Shock	5000 g
Emissions	EN61000-6-4:2001
Immunity	EN61000-6-2:1999

Mechanical

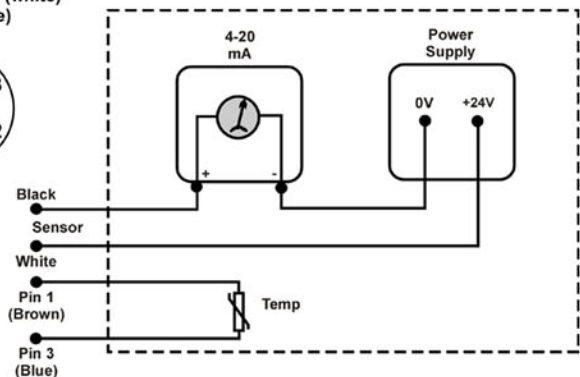
Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8 Nm
Weight	140 gms (nom)
Maximum Cable length	1000 metres
Mating Connector / Cable Assembly	M12 Straight or Right Angle. requires screened cable assembly
Mounting Threads	See 'How to order' table
Options	Integral cable, filters, various connector assemblies, other sensitivities

HS-420SRT Series Vibration Sensor

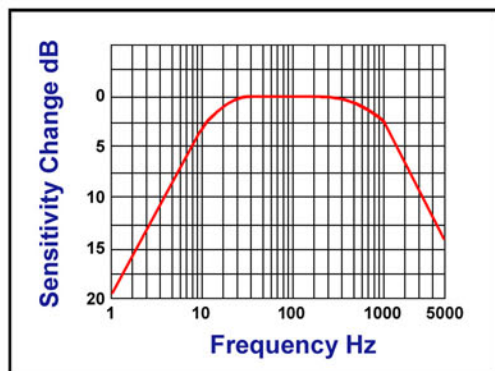
Dimensions



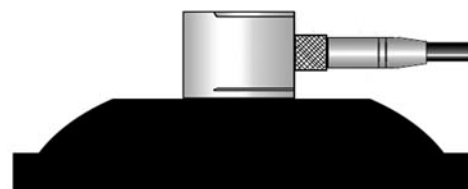
Pin 1 - Temp (brown)
Pin 2 - +ve Power (white)
Pin 3 - Temp (blue)
Pin 4 - 0V (black)



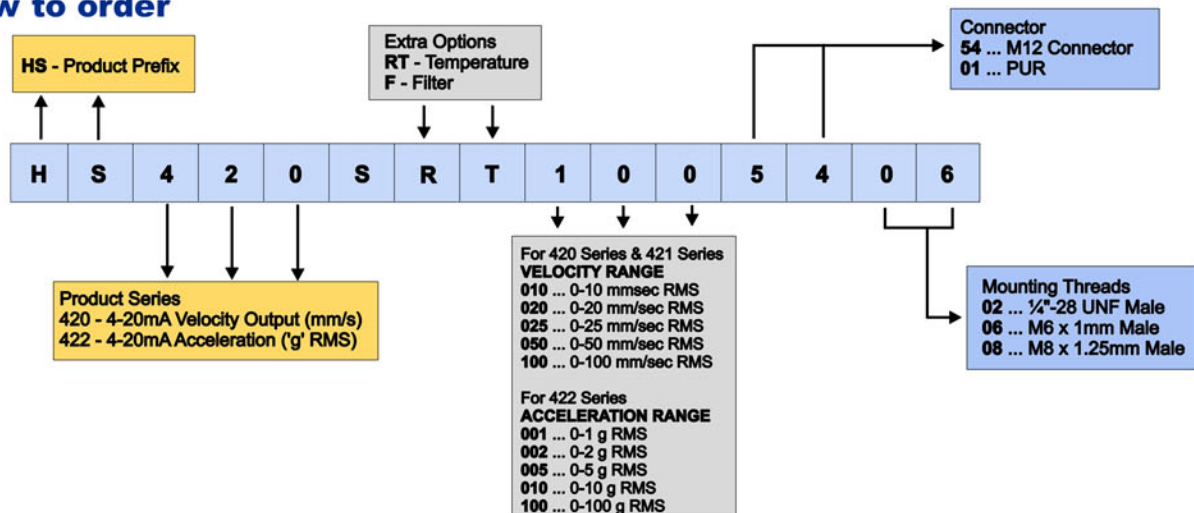
Frequency Response



Mounting of sensor to achieve good repeatable readings.
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



Please contact our Sales Office for information on sensor accessories (mounting studs, etc) and multichannel switch boxes.