

HS-473 Triaxial Accelerometer

4-20mA **velocity output** via 8 core PUR cable

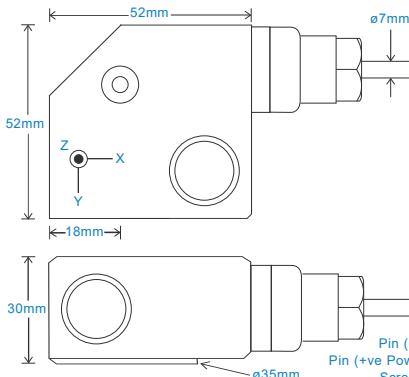
Key Features

- For use with PLC/DCS systems
- Customisable features
- Waterproof



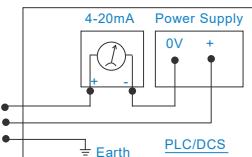
Industries

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



Connection Details

White - +ve Power X
Brown - 0V X
Yellow - +ve Power Y
Black - 0V Y
Blue - +ve Power Z
Red - 0V Z



Technical Performance

Mounted Base Resonance	17kHz (nominal)
Velocity Ranges	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 22°C
Frequency Response	10Hz (600cpm) to 1kHz (60kcpm) $\pm 5\%$ - ISO10816
Isolation	Base isolated
Range	50g peak
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Shear
Mounting Torque	8Nm
Mounting Bolt Provided	see: 'How To Order' table x 37mm long
Weight	530 gms (nominal) body only
Maximum Cable Length	1000 metres
Standard Cable Length	5 metres
Screened Cable	PUR - length to be specified with order
Mounting Threads	see: 'How To Order' table
Submersible Depth	100 metres max (10 bar)

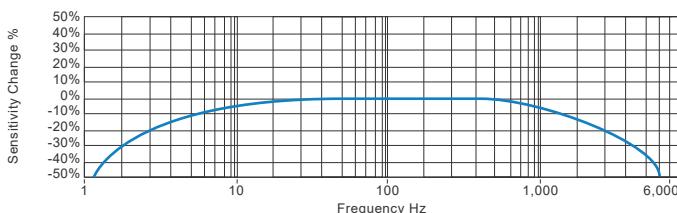
Electrical

Current Output	4-20mA DC proportional to Velocity Range
Supply Voltage	15-30 Volts DC (for 4-20mA)
Settling Time	1 second
Output Impedance	Loop Resistance 600 Ohms max. at 24 Volts
Case Isolation	$>10^8$ Ohms at 500 Volts

Environmental

Operating Temperature Range	-30 to 90°C
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

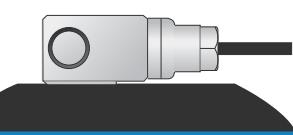
Typical Frequency Response



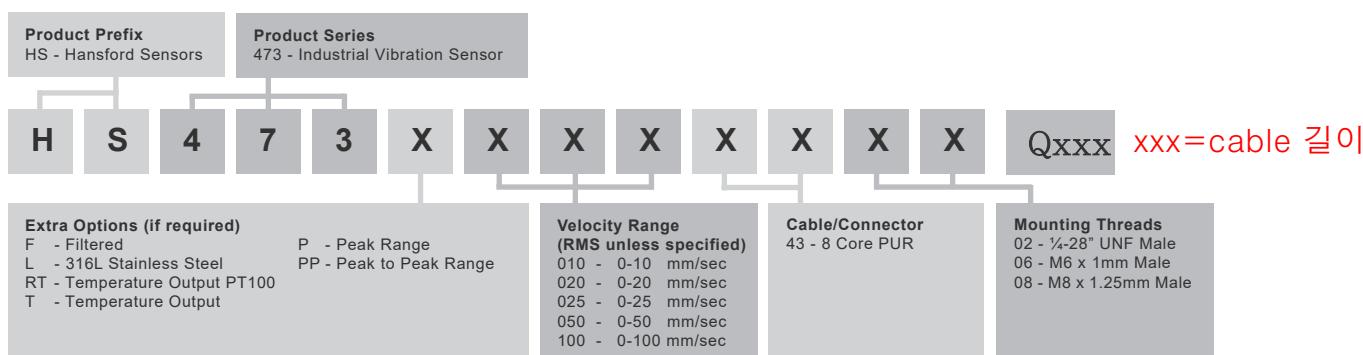
Applications

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



HS-473 Triaxial Accelerometer

4-20mA **velocity output** via 8 Pin M12 Connector

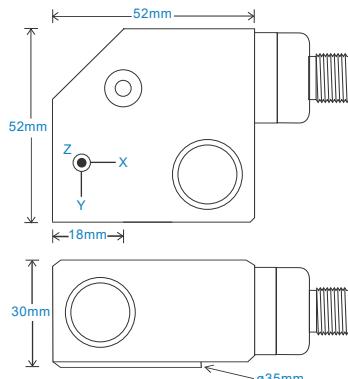
Key Features

- For use with PLC/DCS systems
- Customisable features



Industries

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



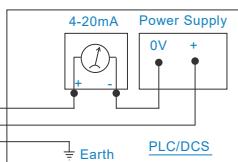
Connection Details

- Pin 1 - White - X Power
- Pin 2 - Brown - X 0V
- Pin 3 - Green - Temp Out
- Pin 4 - Yellow - Y Power
- Pin 5 - Black - Y 0V
- Pin 6 - Purple - Temp 0V
- Pin 7 - Blue - Z Power
- Pin 8 - Red - Z 0V



Temp Sensor

- Pin 1 - +
- Pin 3 - Temp Out
- Pin 6 - 0V



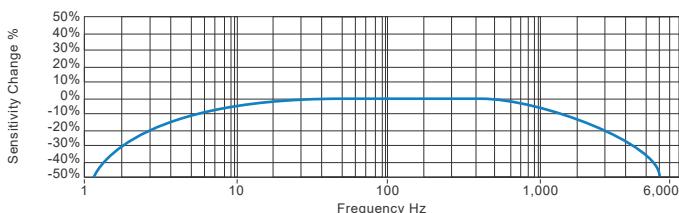
Technical Performance

Mounted Base Resonance	17kHz (nominal)	Case Material	Stainless Steel
Velocity Ranges	see: 'How To Order' table $\pm 10\%$	Sensing Element/Construction	PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	10Hz (600cpm) to 1kHz (60kcpm) $\pm 5\%$ - ISO10816	Mounting Bolt Provided	see: 'How To Order' table x 37mm long
Isolation	Base isolated	Weight	530 gms (nominal) body only
Range	50g peak	Screened Cable Assembly	HS-AC731
Transverse Sensitivity	Less than 5%	Mounting Threads	see: 'How To Order' table

Electrical

Current Output	4-20mA DC proportional to Velocity Range	Operating Temperature Range	-25 to 120°C
Supply Voltage	15-30 Volts DC (for 4-20mA)	Sealing	IP67
Settling Time	1 second	Maximum Shock	5000g
Output Impedance	Loop Resistance 600 Ohms max. at 24 Volts	EMC	EN61326-1:2013
Case Isolation	$>10^8$ Ohms at 500 Volts		

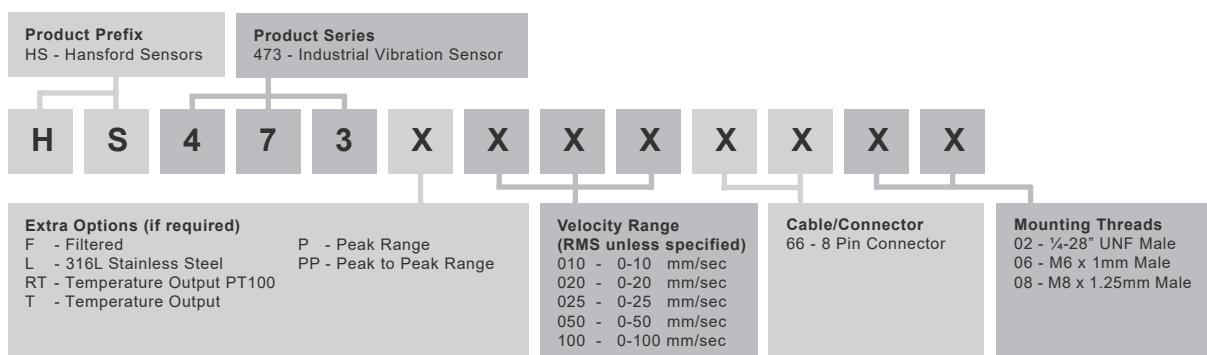
Typical Frequency Response



Environmental

Operating Temperature Range	-25 to 120°C
Sealing	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

How To Order



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

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