HS-420I/M Intrinsically Safe Accelerometer 4-20mA velocity output via PUR Cable

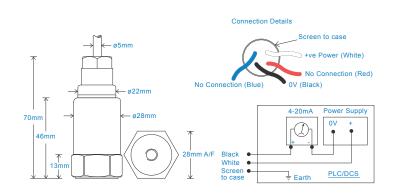
Key Features

- Intrinsically Safe with European, USA and South African approvals
- · For use with PLC/DCS systems
- · Waterproof and resistant to oil

Industries

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





Technical Performance

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

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Weight	150gms (nominal)
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 2 seconds Output Impedance Loop Resistance 600 Ohms max. at 24 Volts Case Isolation >108 Ohms at 500 Volts

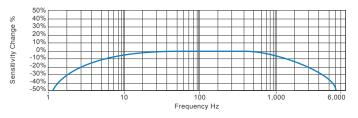
Environmental

Mechanical

Operating Temperature Range Sealing Maximum Shock EMC

see: attached certification details IP68 5000g 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.)



Certifications













www.hansfordsensors.com sales@hansfordsensors.com

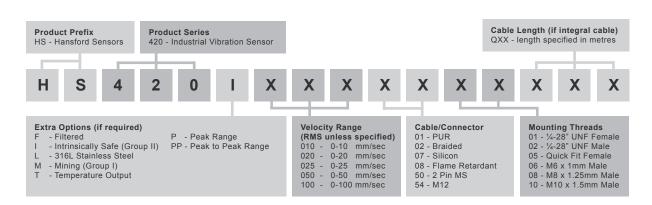


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HS-420I/M Intrinsically Safe Accelerometer 4-20mA velocity output via PUR Cable

Intrinsio	cally Safe Requ	uirements				
Maximum Cable Length nom		nominal 100 metres	US/Canada Approvals	Cer	tificate No. USTC/15/FAI/01350)
		see attached system drawings	Class I, II, III, Divisio	n 1, 2, Groups	A - G, T6, -40°C to +60°C, IP65	5
			Class	I, Zone 0, AEx	x, ia, IIC, T6, Ga, -40°C to +60°C)
Certificate details: Group I + II IECEx BAS08.003		II IECEx BAS08.0034X	Zone 20,	AEx, ia, IIIC, T	Г80°С, IP65, Da, -40°С to +60°С)
		Baseefa08ATEX0086X				
		ା IGD	Barrier	1 x Pe	epperl + Fuchs Galvanic Isolator	r
		Ex ia IIC T6 Ga		KFD2-S	TC4-Ex1, which has superseded	ł
Ex ia IIIC T80°C IP65 Da		KFD2-CR-Ex1.30300 (BAS00ATEX7164))	
					see attached system drawings	3
		Ex ia I Ma				
		(-40°C ≤ Ta ≤ +60°C)	1 x MT		er MTL7787+ (BAS01ATEX7217)	<i>'</i>
		e			or Pepperl + Fuchs Zener Barrier	
Accelerometer System Certificate Baseefa08Y0087		Z787 (BAS01ATEX7005) or any other barrier that				
		Ex ia IIC T6 (-40°C ≤ Ta ≤ +60°C)		confor	ms to system drawings attached	1
		*On request - consult Sales Office	System Connections for Zon	or Dorrior	and attached avatam drawings	
Terminel	Parameters		System Connections for Zen	er barner	see attached system drawings	5
Terminar	Falameters	Ui = 28V, Ii = 115mA, Pi = 0.65W Group II Ui = 16.5V Pi = 0.65W	System Connections for Gal	vanic Isolator	see attached system drawings	-
		or Ui = 28V li = 115mA Pi = 0.65W Group l	System Connections for Gar		see allached system drawings	,
		01 01 = 28V II = 115IIA PI = 0.85W Group I	Terminal Parameters		Ui = Vmax = 28V	,
500V Isol	ation	Units Will Pass A 500V Isolation Test	Terminal Parameters		li = Imax = 115mA	
0001 1001	lation				Pi = 0.65W	
Certified	Temperature Range	e Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +60°C) (Gas)			FI = 0.05W	1
Ex ia IIIC T80°C IP65 Da ($-40°C \le Ta \le +60°C$) (Dust)		Notes: S	special condition	ons of safe use for Group II dust.		
		Ex ia I Ma ($-40^{\circ}C \le Ta \le +60^{\circ}C$) (Mining)			of the cable on the integral cable	
				apparatus must be terminated in		
South African Approval Certificate No. MASC MS/16-0229X				ly certified dust-proof enclosure		
		Group I and II (As Baseefa/ATEX)			he unit has no serviceable parts.	

How To Order





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