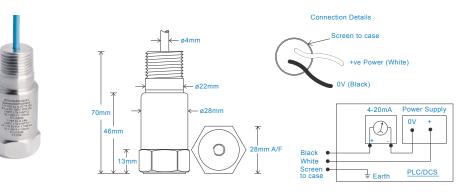
HS-420I/M Intrinsically Safe Accelerometer 4-20mA velocity output via Flame Retardant Cable for use with Terminal Head

Key Features

 Intrinsically Safe with European, USA, Indian, Australian and South African approvals · For use with Terminal Head · Customisable features

Industries

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



Technical Performance

Mounted Base Resonance		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)
External Cable Length	site cable up to 1000 metres
Integral Cable Length	up to 300 mm
Cable Connections	Screw Terminals
Mounting Threads	see: 'How To Order' table

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 >108 Ohms at 500 Volts Case Isolation

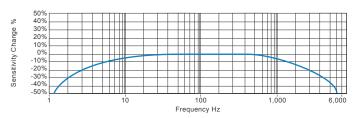
Environmental

Mechanical

Operating Temperature Range Sealing Maximum Shock EMC

see: attached certification details IP65 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











CE

This product is certified in accordance with UL 913, 8th Ed. Rev. December 6, 2013 CAN/CSA C22.2 No. 157-92 (R2012) +Upd1 +Upd2



T: 150 210 98804 www.hansfordsensors.com.cn 汉施弗德传感器(上海)有限公司

HS-420I/M Intrinsically Safe Accelerometer 4-20mA velocity output via Flame Retardant Cable for use with Terminal Head

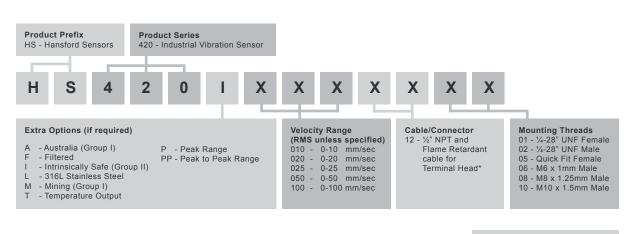
Intrinsically Safe Requirements					
Maximum Cable Length	nominal 100 metres	US/Canada Approvals	Certificate No. SGSNA/18/SUW/0000231		
	see attached system drawings	Class I, II, III, Divisio	n 1, 2, Groups A - G, T4, -40°C to +110°C,		
	, , , , , , , , , , , , , , , , , , ,	Class I, Zon	e 0, AEx, ia, IIC, T4, Ga, -40°C to +110°C		
Certificate details: Group I	+ II IECEx BAS08.0034X	IECEx BAS08.0034X Zone 20, AEx, ia, IIIC, T130°C, IP65, Da, -40°C to +110			
	Baseefa08ATEX0086X				
	©II 1GD	Barrier	1 x Pepperl + Fuchs Galvanic Isolator		
	Ex ia IIC T6 Ga		KFD2-STC4-Ex1, which has superseded		
Ex ia IIIC T80°C IP65 Da KFD2-C		KFD2-CR-Ex1.30300 (BAS00ATEX7164)			
	🖾 I M1		see attached system drawings		
	Ex ia I Ma				
	(-40°C ≤ Ta ≤ +60°C)	1 x MTL Ze	ener Barrier MTL7787+ (BAS01ATEX7217)		
Certificate details: Group II & WI 1GD			or Pepperl + Fuchs Zener Barrier		
	Ex ia IIC T4 Ga	Z787 (B	Z787 (BAS01ATEX7005) or any other barrier that		
	Ex ia IIIC T130°C IP65 Da		conforms to system drawings attached		
	(-60°C ≤ Ta ≤ +110°C)				
		System Connections for Zener B	arrier see attached system drawings		
Accelerometer System Certificate Baseefa08Y0087					
	Ex ia IIC T6 (-40°C ≤ Ta ≤ +60°C)	System Connections for Galvanio	c Isolator see attached system drawings		
	*On request - consult Sales Office				
		Terminal Parameters	Ui = Vmax = 28V		
Terminal Parameters	Ui = 28V, Ii = 115mA, Pi = 0.65W Group II		li = Imax = 115mA		
	Ui = 16.5V Pi = 0.65W		Pi = 0.65W		
	or Ui = 28V li = 115mA Pi = 0.65W Group I				
			al conditions of safe use for Group II dust.		
500V Isolation	Units Will Pass A 500V Isolation Test		free end of the cable on the integral cable		
			ion of the apparatus must be terminated in		
Certified Temperature Range Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +60°C) (Gas)		an a	ppropriately certified dust-proof enclosure.		
Ex ia IIC T4 Ga (-40°C \leq Ta \leq +110°C) (Gas)			The unit has no serviceable parts.		
Ex ia IIIC T80°C IP65 Da (-40° C \leq Ta \leq +60°C) (Dust)					
Ex ia IIIC T130°C IP65 Da(-40°C ≤ Ta ≤ +110°C)(Dust)					
	Ex ia I Ma (-40°C ≤ Ta ≤ +60°C) (Mining)				

Australia Approval Group 1 IECEx ITA 10.0003X Ex ia I Ma $(-40^{\circ}C \le Ta \le +60^{\circ}C)$

South African Approval

Certificate No. MASC MS/16-0229X Group I and II (As Baseefa/ATEX)

How To Order



*HS-AA042 or HS-AA052 Terminal Head to be purchased separately



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