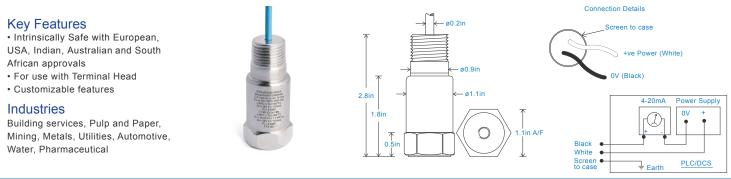
HS-420I/M Intrinsically Safe Accelerometer 4-20mA velocity output via Flame Retardant Cable for use with Terminal Head



Technical Performance

Mounted Base Resonance	e 5kHz min
Velocity Ranges	see: 'How To Order' table ±10%
	Nominal 80Hz at 72°F
Frequency Response	600cpm (10Hz) to 60kcpm (1kHz) ± 5% - ISO10816
Isolation	Base isolated
Range	50g peak
Transverse Sensitivity	Less than 5%

Case Material			
Sensing Element/Construction			
Mounting Torque			
Weight			
External Cable Length			
Integral Cable Length			
Cable Connections			
Mounting Threads			

Stainless Steel PZT/Compression 5.9ft. lbs 5.2 oz. (nominal) site cable up to 3,280 ft. up to 12in Screw Terminals see: 'How To Order' table

Electrical

Current Output Supply Voltage Settling Time **Output Impedance** Case Isolation

4-20mA DC proportional to Velocity Range 15-30 Volts DC (for 4-20mA) 2 seconds Loop Resistance 600 Ohms max. at 24 Volts >108 Ohms at 500 Volts

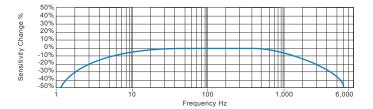
Environmental

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





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







www.hansfordsensors.com sales@hansfordsensors.com

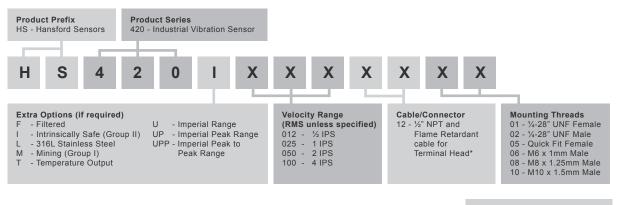


We reserve the right to alter the specification of this product without prior notice TS080U.11

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

Intrinsically Safe Requir	ements		
Maximum Cable Length	nominal 100 metres	US/Canada Approvals	Certificate No. SGSNA/18/SUW/0000231
	see attached system drawings	Class I. II. III. Division	n 1, 2, Groups A - G, T4, -40°C to +110°C,
			e 0, AEx, ia, IIC, T4, Ga, -40°C to +110°C
Certificate details: Group I + II IECEx BAS08.0034X		Zone 20, AEx, ia, IIIC, T130°C, IP65, Da, -40°C to +110°C	
	Baseefa08ATEX0086X		,,
	©II 1GD	Barrier	1 x Pepperl + Fuchs Galvanic Isolator
	Ex ia IIC T6 Ga	Bamor	KFD2-STC4-Ex1, which has superseded
Ex la IIIC T80°C IP65 Da		KFD2-CR-Ex1.30300 (BAS00ATEX7164)	
	Ex la life 180 C IP05 Da © I M1		
			see attached system drawings
	Ex ia I Ma	4 MTL 7-	
	(-40°C ≤ Ta ≤ +60°C)	1 X MIL Ze	ner Barrier MTL7787+ (BAS01ATEX7217)
Certificate details: Group II	©II 1GD	7707 (8	or Pepperl + Fuchs Zener Barrier
Ex ia IIC T4 Ga		Z787 (BAS01ATEX7005) or any other barrier that	
	Ex ia IIIC T130°C IP65 Da		conforms to system drawings attached
	(-60°C ≤ Ta ≤ +110°C)	Queters Operations for Zener De	anian and attack all such as described
		System Connections for Zener Ba	arrier see attached system drawings
Accelerometer System Certificat		Queters Commentiers for Onlynnia	
	Ex ia IIC T6 (-40°C ≤ Ta ≤ +60°C)	System Connections for Galvanic	Isolator see attached system drawings
	*On request - consult Sales Office		
		Terminal Parameters	Ui = Vmax = 28V
Terminal Parameters	Ji = 28V, li = 115mA, Pi = 0.65W Group II		li = Imax = 115mA
	Ui = 16.5V Pi = 0.65W		Pi = 0.65W
0	r 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
		version of the apparatus must be terminated in	
Certified Temperature Range Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +60°C) (Gas)		an appropriately certified dust-proof enclosure.	
Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +110°C) (Gas)			The unit has no serviceable parts.
Ex ia IIIC T80°C IP65 Da(-40°C ≤ Ta ≤ +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°C ≤ Ta ≤ +60°C)		
South African Approval	Certificate No. MASC MS/16-0229X		

How To Order



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



www.hansfordsensors.com sales@hansfordsensors.com



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