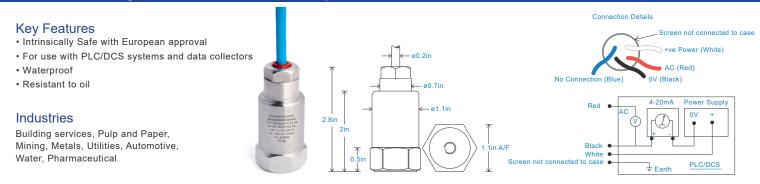
HS-4211 Intrinsically Safe Accelerometer 4-20mA velocity and AC acceleration output via PUR Cable



Technical Performance

$\Lambda A c$	ach	an	ica	11
IVIC		a		

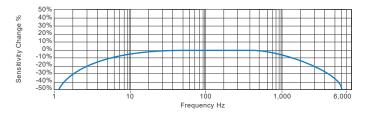
Mounted Base Resonance	5kHz min
Velocity Ranges	see: 'How To Order' table ±10%
	Nominal 80Hz at 72°F
Frequency Response: 4-20mA	600cpm (10Hz) to 60kcpm (1kHz) ± 5%
	- ISO10816
Frequency Response: AC	120cpm (2Hz) to 600kcpm (10kHz) ± 5%
	- ISO10816
Isolation	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	5.9ft. lbs
Weight	5.2 oz. (nominal)
Maximum Cable Length	3,280 ft.
Standard Cable Length	16 ft.
Sheilded Cable	PUR - length to be specified with order
Mounting Threads	see: 'How To Order' table
Submersible Depth	328 ft. max (10 bar)

Electrical

Outputs	4-20mA DC current proportional to
	Range and AC acceleration
Bias Voltage	3 Volts DC (nominal)
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	>10 ⁸ Ohms at 500 Volts

Typical Frequency Response (4-20mA signal)



Environmental

Operating Temperature Range	
Sealing	
Maximum Shock	
EMC	

see: attached certification details IP68 5000g EN61326-1:2013

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

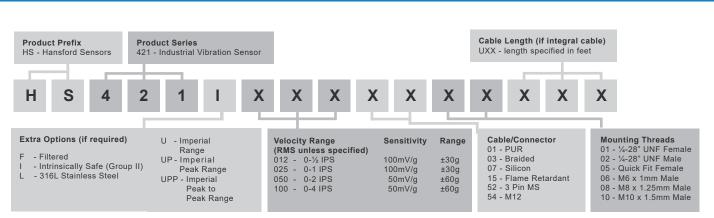


We reserve the right to alter the specification of this product without prior notice TS1150U.4

HS-4211 Intrinsically Safe Accelerometer 4-20mA velocity and AC acceleration output via PUR Cable

Intrinsically Safe Requ	uirements		
Maximum Cable Length	See website: www.hansfordsensors.com	Barrier: 4-20mA loop	1x Pepperl + Fuchs Galvanic Isolator
			KFD2-STC5-Ex1 (HS-AA154)
Certificate details: Group II	IECEx BAS08.0034X		1 x MTL Zener Barrier MTL7787+ (HS-AA022)
	Baseefa08ATEX0086X		
	ll 1GD	Barrier: AC output	1x Pepperl + Fuchs Galvanic Isolator
	Ex ia IIC T6 Ga		KFD2-VR-Ex1.19 (HS-AA155)
	Ex ia IIIC T80°C IP65 Da		1 x MTL Zener Barrier MTL7764+ (HS-AA023)
	(-40°C ≤ Ta ≤ +55°C)		
Certificate details: Group II	ll 1GD	Terminal Parameters	Ui = Vmax = 28V
	Ex ia IIC T4 Ga		li = Imax = 115mA
	Ex ia IIIC T130°C IP65 Da		Pi = 0.856W
	(-40°C ≤ Ta ≤ +105°C)		
		Notes:	Special conditions of safe use for Group II dust.
Terminal Parameters	Ui = 28V, li = 115mA, Pi = 0.856W Group II		The free end of the cable on the integral cable
			version of the apparatus must be terminated in
500V Isolation	Units Will Pass A 500V Isolation Test		an appropriately certified dust-proof enclosure.
			The unit has no serviceable parts.
Certified Temperature Range	e Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +55°C) (Gas)		
	Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +105°C) (Gas)		
Ex ia III	C T80°C IP65 Da (-40°C ≤ Ta ≤ +55°C) (Dust)		
Ex ia IIIC	T130°C IP65 Da (-40°C ≤ Ta ≤ +105°C) (Dust)		

How To Order





www.hansfordsensors.com sales@hansfordsensors.com



We reserve the right to alter the specification of this product without prior notice TS1150U.4