HS-4211 Intrinsically Safe Accelerometer 4-20mA velocity and AC acceleration output via 3 Pin MS Connector

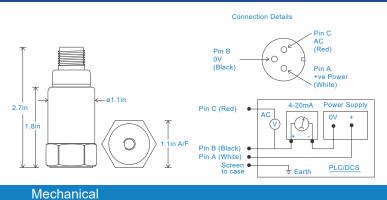
Key Features

- Intrinsically Safe with European approval
- For use with PLC/DCS systems and data collectors
- · 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 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. Ibs
Weight	5.2 oz. (nominal)
Screened Cable Assembly	see: www.hansfordsensors.com for options
Connector	HS-AA005 - non-booted
	HS-AA068 or HS-AA069 - booted
Mounting Threads	see: 'How To Order' table

Electrical

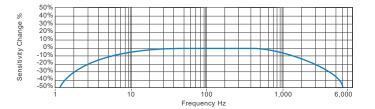
Outputs	4-20mA DC current proportional to
	Range and AC acceleration
Bias Voltage	3 Volts DC (nominal)
Supply Voltage	15-30 Volts DC (for 4-20mA)
Settling Time	2 seconds
Output Impedance	Loop Resistance 600 Ohms max. at 24 Volts
Case Isolation	>10 ⁸ Ohms at 500 Volts

Environmental

Operating Temperature Range Sealing Maximum Shock EMC

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

Typical Frequency Response (4-20mA signal)



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

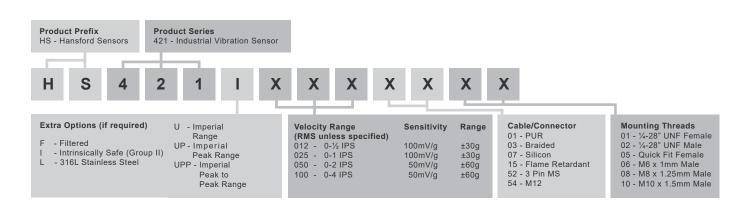


We reserve the right to alter the specification of this product without prior notice TS1104U.3

HS-4211 Intrinsically Safe Accelerometer 4-20mA velocity and AC acceleration output via 3 Pin MS Connector

Intrinsically Safe Rec	luirements		
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		
	ال ا	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 Rang	je Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +55°C) (Gas)		
	Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +105°C) (Gas)		
Ex ia I	IIC T80°C IP65 Da (-40°C ≤ Ta ≤ +55°C) (Dust)		
Ex ia IIIC	5 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 TS1104U.3

