# **HS-105IS ATEX High Temp. Accelerometer**

Less than 5%

**AC output via Low Noise Cable** 

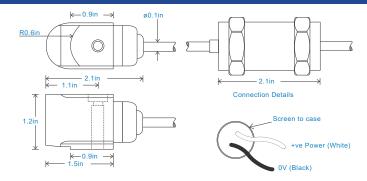
#### **Key Features**

- Intrinsically safe with European and Indian approval
- · Includes external charge amplifier
- · Optional temperature ranges
- · Low noise cable

#### Industries

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





# Technical Performance

 Mounted Base Resonance
 see 'How To Order' table (nominal)

 Sensitivity
 see: 'How To Order' table ±10%

 Nominal 80Hz at 72°F

 Frequency Response
 120cpm (2Hz) to 600kcpm (10kHz) ± 5%

 90cpm (1.5Hz) to 720kcpm (12kHz) ± 10%

 48cpm (0.8Hz) to 900kcpm (15kHz) ± 3dB

 Isolation
 Base isolated

 Range
 see: 'How To Order' table

# Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Compression Mounting Torque 5.9ft. lbs Mounting Bolt Provided see: 'How To Order' table x 1.4in long 4.4 oz. (nominal) Weight Maximum Cable Length 3,280 ft. Cable see: 'How To Order' table - (65 ft. max between sensor and charge amplifier) Mounting Threads see: 'How To Order' table

## **Electrical**

Transverse Sensitivity

 Electrical Noise
 0.1mg max

 Current Range
 0.5mA to 8mA

 Bias Voltage
 10 - 12 Volts DC

 Settling Time
 2 seconds

 Output Impedance
 200 Ohms max.

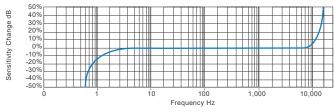
 Case Isolation
 >108 Ohms at 500 Volts

#### Environmental

Operating Temperature Range

Ex ia IIA T2 (-4°F ≤ Ta ≤ +480°F) Accelerometer
Ex ia IIA T4 (-4°F ≤ Ta ≤ +176°F) Charge Amplifier
IP65
5000g
EN61326-1:2013

# Typical Frequency Response (at 100mV/g)



#### **Applications**

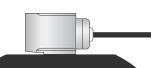
Maximum Shock

Sealing

**EMC** 

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.)



## Certificates









www.hansfordsensors.com sales@hansfordsensors.com



# HS-105IS ATEX High Temp. Accelerometer AC output via Low Noise Cable

Maximum Cable Length	328 ft. max.	500V Isolation	Units Will Pass A 500V Isolation Test
Certificate details: Group II	IECExBAS09.0157	Barrier	1 x Pepperl + Fuchs Galvanic Isolator
Accelerometer	Baseefa07ATEX0336		KFD2-VR4-Ex1.26 (BAS02ATEX7206)
	®Ⅱ 1G		or equivalent
	Ex ia IIA T2 Ga		
	(-4°F ≤ Ta ≤ +480°F)		1 x MTL Zener Barrier MTL7728+ (BAS01ATEX7217)
			or Pepperl + Fuchs Zener Barrier
Certificate details: Group II	IECExBAS09.0157		Z728 (BAS01ATEX7005) or equivalent
Charge Amplifier	Baseefa07ATEX0336		
	®Ⅱ 1G	Notes:	Special conditions of safe use for Group II.
	Ex ia IIA T4 Ga		The free end of the cable on the integral cable
	(-4°F ≤ Ta ≤ +176°F)		version of the apparatus must be terminated in
			an appropriate enclosure certified flameproof.
Terminal Parameters	Ui = 28V, Ii = 93mA, Pi = 0.65W,		The unit has no serviceable parts.
	Ci = 54 nF, Li = 60µH		

# How To Order

