## HS-105IS ATEX High Temp. Accelerometer

AC output via Low Noise Cable

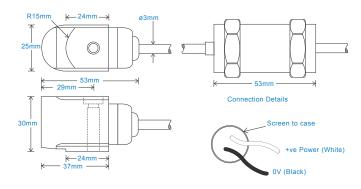
#### **Key Features**

- 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



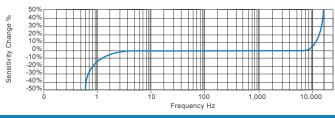


#### **Mechanical Technical Performance** Mounted Base Resonance see 'How To Order' table (nominal) Sensitivity see: 'How To Order' table ±10% Nominal 80Hz at 22°C 2Hz (120cpm) to 10kHz (600kcpm) ± 5% Frequency Response 1.5Hz (90cpm) to 12kHz (720kcpm) ± 10% 0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB Isolation Base isolated see: 'How To Order' table Range Transverse Sensitivity Less than 5%

moonanioan	
Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Mounting Bolt Provided	see: 'How To Order' table x 35mm long
Weight	125gms (nominal)
Maximum Cable Length	1000 metres
Cable	see: 'How To Order' table - (20 metres
	max between sensor and charge amplifier)
Mounting Threads	see: 'How To Order' table

Electrical		Environmental	
Electrical Noise	0.1mg max	Operating Temperature Range	
Current Range	0.5mA to 8mA	Ex ia IIC T2	$(-20^{\circ}C \le Ta \le +250^{\circ}C)$ Accelerometer
Bias Voltage	10 - 12 Volts DC	Ex ia IIC T4 (-	$-20^{\circ}C \le Ta \le +80^{\circ}C)$ Charge Amplifier
Settling Time	2 seconds	Sealing	IP65
Output Impedance	200 Ohms max.	Maximum Shock	5000g
Case Isolation	>10 <sup>8</sup> Ohms at 500 Volts	EMC	EN61326-1:2013

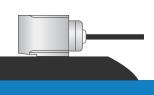
#### Typical Frequency Response (at 100mV/g)



### 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



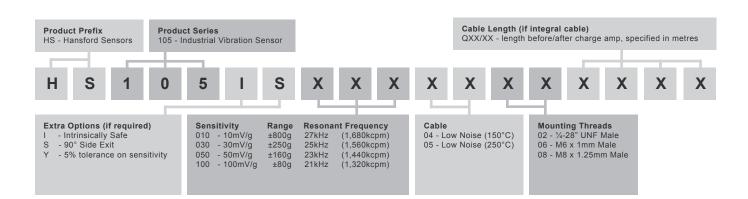
We reserve the right to alter the specification of this product without prior notice TS231.9



# HS-105IS ATEX High Temp. Accelerometer

Intrinsically Safe Requirements	5		
Maximum Cable Length	100 metres 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		
	(-20°C ≤ Ta ≤ +250°C)		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
	(-20°C ≤ Ta ≤ +80°C)		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





www.hansfordsensors.com sales@hansfordsensors.com

