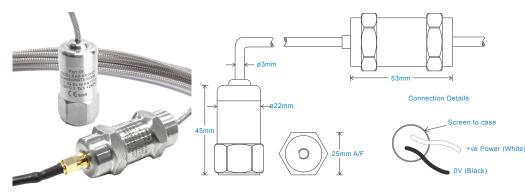
HS-105I ATEX High Temp. Accelerometer

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



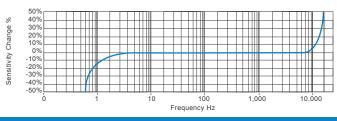
Technical Performance

| Mounted Base Resonance | see 'How To Order' table (nominal) | Case |
|------------------------|--|-------|
| Sensitivity | see: 'How To Order' table ±10% | Sens |
| | Nominal 80Hz at 22°C | Moun |
| Frequency Response | 2Hz (120cpm) to 10kHz (600kcpm) ± 5% | Weig |
| | 1.5Hz (90cpm) to 12kHz (720kcpm) ± 10% | Maxir |
| | 0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB | Cable |
| Isolation | Base isolated | |
| Range | see: 'How To Order' table | Moun |
| Transverse Sensitivity | Less than 5% | |
| | | |

| Mechanical | |
|------------------------------|--|
| Case Material | Stainless Steel |
| Sensing Element/Construction | PZT/Compression |
| Mounting Torque | 8Nm |
| 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 T | 2 (-20°C \leq Ta \leq +250°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 | IP67 |
| Output Impedance | 200 Ohms max. | Maximum Shock | 5000g |
| Case Isolation | >10 ⁸ 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

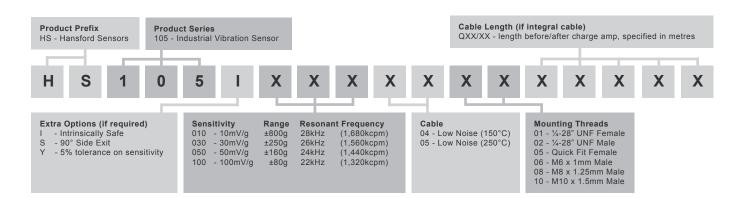


We reserve the right to alter the specification of this product without prior notice TS092.7

HS-105I 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





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