HS-004I ATEX Low Power Accelerometer Capsule

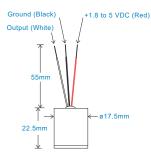
AC acceleration output

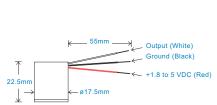
Key Features

- OEM Capsule
- · Low voltage

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







Technical Performance

Mounted Base Resonance see 'How To Order' table (nominal) Sensitivity see: 'How To Order' table ±10% Nominal 80Hz at 22°C 0.3Hz (18cpm) to 15kHz (900kcpm) ± 3dB Frequency Response Isolation Base isolated see: 'How To Order' table @ 5V power Range Transverse Sensitivity Less than 5% **Broadband Resolution** <500 µg **Amplitude Linearity** +1%

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Weight 18gms (nominal)

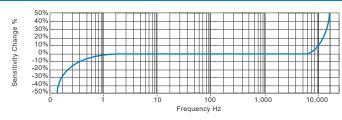
Electrical

Electrical Noise < 500µg see: 'How To Order' table Power Requirements **Current Consumption** 100µA nominal at 5V supply (60µA at 1.8V) Bias Voltage 50% of supply voltage Settling Time 1 second Output Impedance 100 Ohms max. >108 Ohms at 500 Volts Case Isolation

Environmental

-40 to 120°C Operating Temperature Range Sealing IP55 Maximum Shock 5000g EN61326-1:2013 **FMC Electromagnetic Sensitivity** 150 µg/gauss

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

Certificates







T: 150 210 98804 www.hansfordsensors.com.cn 汉矢德传感器 (上海) 有限公司



HS-004I ATEX Low Power Accelerometer Capsule

AC acceleration output

Intrinsically Safe Requirements

Certificate details: Group II IECEx BAS 18.0072U
Baseefa18ATEX0110U

©II 1G

Ex ia IIC T6...T1 G

Standards Applied to Product

EN IEC 60079-0:2018 EN 60079-11:2012

IEC 60079-0 Edition 7 2017 IEC 60079-11 Edition 6 2011

Terminal Parameters Ui = 5.2V, Ii = 367mA, Pi = 305mW

Ci = 12pF

Li = 0

Certified temperature range:

	Т6	T5	T4	Т3	T2	T1
Mounted in free space (11K surface temperature rise)	69°C	84°C	110°C	110°C	110°C	110°C
Mounted in enclosed space with approximately 61cm3 of free space around the capsule (16.5K surface temperature rise)	63.5°C	78.5°C	110°C	110°C	110°C	110°C
Mounted in enclosed space with approximately 40cm3 of free space around the capsule (20K surface temperature rise)	60°C	75°C	110°C	110°C	110°C	110°C

Schedule of Limitations:

- 1. The piezo-electric crystal within the assembly is internally protected by adequately rated, triplicated zener diodes and so no further consideration is required.
- 2. The HS-004I Capsule shall be completely encased within an equipment enclosure providing a degree of ingress protection of at least IP20.

How To Order

