

HS-004I 本安防爆低功耗嵌入式加速度传感器

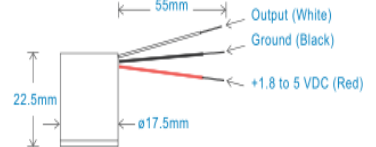
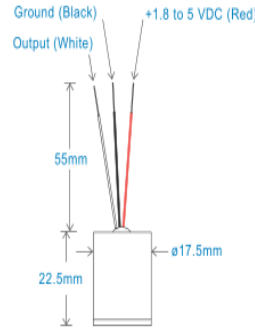
AC交流电压输出

主要性能

- OEM 嵌入式集成应用
- 低电压
- 超低功耗

应用领域

大型机械，纸浆和造纸，采矿，金属，航空航天，汽车，水，制药，风能，轴承，发动机，压缩机等等



技术性能

基座共振灵敏度	参见产品选型表 请参阅：产品选型表 ±10% Nominal 80Hz at 22°C
频率响应范围	0.3Hz (18cpm) to 15kHz (900kcpm) ± 3dB
隔离	Base isolated
范围：	see: 'How To Order' table @ 5V power
横向灵敏度	Less than 5%
带宽分辨率	<500 µg
线性幅度	±1%

机械参数

外壳材质	不锈钢
感应原件/结构	压电/剪切
重量	18g

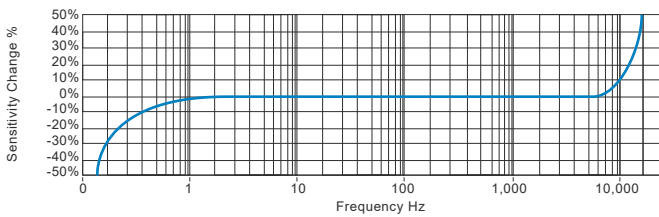
电气参数

电气噪声	< 500µg
供电需求	see: 'How To Order' table
电流消耗	100µA nominal at 5V supply (60µA at 1.8V)
偏置电压	50% of supply voltage
建立时间	1 second
输出阻抗	100 Ohms max.
Case Isolation	>108 Ohms at 500 Volts

环境

环境温度	-40 to 120°C
IP等级	IP55
最大冲击	5000g
EMC	EN61326-1:2013
电磁灵敏度	150 µg/gauss

频率响应 (at 100mV/g)



应用

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How To Order

Product Prefix	Product Series	Options (if required)																									
HS - Hansford Sensors	004I - Low Power Accelerometer Capsule	S - 侧面输出																									
H S 0 0 4I X X X X X X																											
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T: 150 210 98804

www.hansfordsensors.com.cn
汉矢德传感器（上海）有限公司

TS396.3



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AC交流电压输出

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	U _i = 5.2V, I _i = 367mA, P _i = 305mW C _i = 12pF L _i = 0		

Certified temperature range:

	T6	T5	T4	T3	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 61cm ³ 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 40cm ³ 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.

Certificates



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