

HS-170I防爆本安加速度传感器

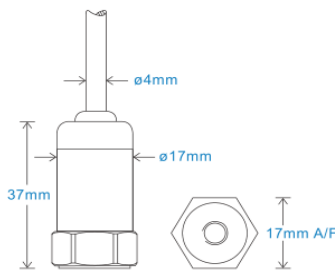
AC 加速度输出 通过阻燃材质电缆

主要性能

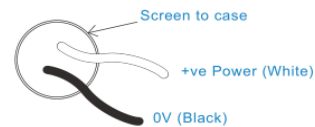
- 防爆本安型
- 用于数据采集
- 紧凑高端设计

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



Connection Details



技术性能

基座共振	参见产品选型表
灵敏度	请参阅：产品选型表 ±10% 额定 80Hz 在 22°C 温度下
频率响应	2Hz (120cpm) to 10kHz (600kcpm) ± 5% 1.5Hz (90cpm) to 12kHz (720kcpm) ± 10% 0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB
隔离	基座隔离
范围	请参阅：产品选型表
横向灵敏度	小于5%

机械参数

材质	不锈钢
感应原件	压电陶瓷/剪切
安装扭矩大小	8Nm
重量	52g
电缆选型	请参阅产品选型表
连接器	请参阅产品选型表
螺纹安装	请参阅产品选型表

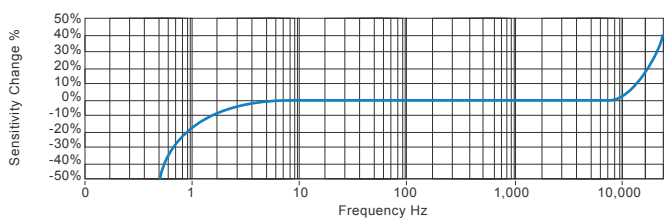
电气参数

电压:	18-30Volts DC
电气噪声	0.1mg max
电流范围	0.5mA to 8mA
偏电压	10 - 12 Volts DC
建立时间	1 seconds
输出阻抗	200 Ohms max.
Case Isolation	>10 ⁸ Ohms at 500 Volts

应用环境

环境温度	参考防爆等级
防护等级	IP65
最大振动	5000g
EMC	EN61326-1:2013

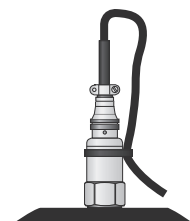
频率响应 (at 100mV/g)



应用领域

风能，电动机，泵，压缩机，离心机，输送机，空气处理机，齿轮箱，辊，干燥机，压力机，冷却，VAC，主轴，机床，工艺设备

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.)



产品选型表

产品名称 HS - Hansford Sensors	产品系列 170I - 防爆本安工业振动传感器										
<div style="display: flex; justify-content: space-around; font-size: 24px; font-weight: bold;"> HS170XXXXXXX </div>											
附加选项 M - 矿用防爆本安 (Group I) I - 防爆本安 (Group II) L - 316L 不锈钢材质 S - 侧面输出 Y - ±5% 灵敏度	灵敏度 010 - 10mV/g 030 - 30mV/g 050 - 50mV/g 100 - 100mV/g 250 - 250mV/g 500 - 500mV/g	范围 ±800g ±250g ±160g ±80g ±32g ±16g	共振频率 34kHz (2,040kcpm) 33kHz (1,980kcpm) 32kHz (1,920kcpm) 30kHz (1,800kcpm) 28kHz (1,680kcpm) 26kHz (1,560kcpm)	电缆/接插件 02 - 屏蔽铠装电缆 08 - 阻燃材质电缆 50 - 2 Pin MS接插件 54 - M12接插件	安装螺纹 01 - 1/4-28" UNF Female 02 - 1/4-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male 10 - M10 x 1.5mm Male						



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www.hansfordsensors.com.cn

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Maximum Cable Length	See www.hansfordsensors.com.cn	Certified Temperature Range	Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +57°C) (Gas) Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +103°C) (Gas)
Certificate details: Group I	IECEX 18.0082X Baseefa18ATEX0130X ⓈI M 1 Ex ia I Ma		Ex ia IIIB T110°C Da (-55°C ≤ Ta ≤ +57°C) (Dust) Ex ia IIIB T145°C Da (-55°C ≤ Ta ≤ +92°C) (Dust) Ex ia IIIC T135°C Da (-55°C ≤ Ta ≤ +70°C) (Dust) Ex ia I Ma (-55°C ≤ Ta ≤ +103°C) (Mining)
Certificate details: Group II and III	IECEX 18.0082X Baseefa18ATEX0130X ⓈII 1GD Ex ia IIC T6..T4 Ga Ex ia IIIC T135°C Da Ex ia IIIB T110°C..T145 Da	Australian Approval Group I	IECEX ExTC 18.0032X Ex ia I Ma (-55°C < Ta < +104°C)
Terminal Parameters Connector	Ui = 28V, Ii = 93mA, Pi = 0.65W Ci = 1.2nF Li = 0	US/Canada Approvals	Certificate No. SGSNA/19/BAS/00005 CI I, II, III, Div 1, 2 Gr A-G T* CI I Zn 0 AEx ia IIC T6...T4 Ga CI II Zn 20 AEx ia IIIC T135°C Da Ex ia IIC T6...T4 Ga Ex ia IIIC T135°C Da
500V Isolation	Units Will Pass A 500V Isolation Test		Or
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		CI I, II, III, Div 1, 2 Gr A-D G and F T* CI I Zn 0 AEx ia IIC T6...T4 Ga CI II Zn 20 AEx ia IIIB T110°C...T145°C Da Ex ia IIC T6...T4 Ga Ex ia IIIC T110°C...T145°C Da
Barrier	1 x Pepperl + Fuchs Galvanic Isolator KFD2-VR4-Ex1.26 (BAS02ATEX7206) 1 x MTL Zener Barrier MTL7728+ (BAS01ATEX7217) or Pepperl + Fuchs Zener Barrier Z728 (BAS01ATEX7005) or any other barrier that conforms with the terminal parameters	Control Drawing	M06-083-A Overbraided Cable M06-084-A PUR Cable M06-085-A Silicone Cable M06-086-A FR PUR Cable M06-087-A Various Cables (HS-150IT Only)

Special conditions of use: When a sensor is supplied with integral cable, this must be terminated in an enclosure providing at least degree of protection IP20.
Note: If the equipment is to be used in unusual environments or aggressive substances are likely to be encountered, contact the manufacturer to discuss suitability.

Certifications



This product is certified in accordance with
UL 60079-0, 6th Ed, Rev. July 26, 2013
UL 60079-11, 6th Ed. Rev. September 6, 2013
CAN/CSA C22.2 No. 60079-0:15 Rev. October 2015
CAN/CSA C22.2 No. 60079-11:14
UL 913, 8th Ed. Rev. October 16, 2015



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