

HS-420I/M 防爆振动速度传感器

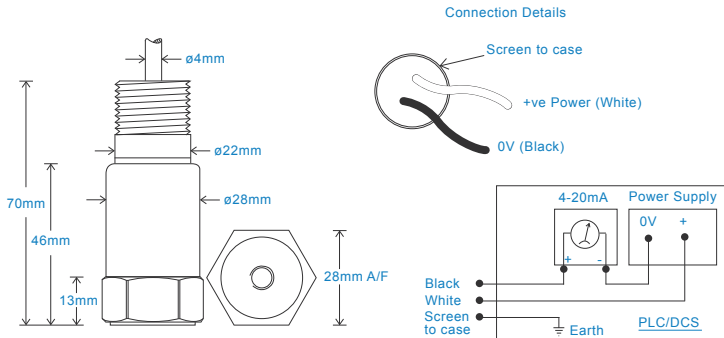
4 - 20 mA 振动速度 输出 通过用于端子的阻燃电缆

主要性能

- 性价比, 防爆本安型
- 用于PLC/DCS系统数据采集
- 可定制的功能

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	5kHz min
灵敏度	请参阅: 产品选型表 $\pm 10\%$ 额定 80Hz 在 22°C 温度下
频率响应	10Hz (600cpm) to 1kHz (60kcpm) $\pm 5\%$ - ISO10816
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/压缩
安装扭矩大小	8Nm
重量	150g
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

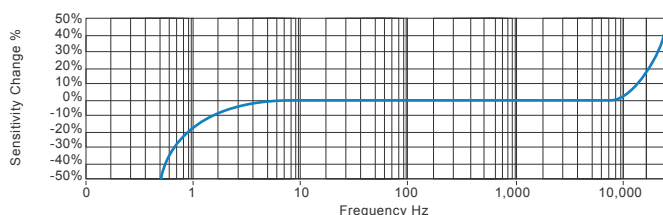
电气参数

电压:	15-30Volts DC (4-20mA)
电流输出	4-20mA 直流与速度成比例
电流范围	0.5mA to 8mA
偏电压	10 - 12 Volts DC
建立时间	2 seconds
输出阻抗	600 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

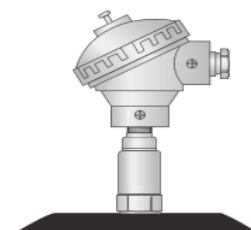
频率响应 (at 100mV/g)



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 420I - 工业振动传感器									
H	S	4	2	0	X	X	X	X	X	X	X
附加选项		振动速度范围				电缆/接插件			安装螺纹		
F - 低频最小0.1Hz (下单告知所需低频)		010 - 0-10 mm/s				12 - 用于1/2" NPT和			01 - 1/4-28" UNF Female		
I - 防爆本安 (Group II)		020 - 0-20 mm/s				阻燃电缆的端子			02 - 1/4-28" UNF Male		
L - 316L 不锈钢材质		025 - 0-25 mm/s							05 - Quick Fit Female		
M - 矿用防爆本安 (Group I)		050 - 0-50 mm/s							06 - M6 x 1mm Male		
T - 温度输出 10mV/C		100 - 0-100 mm/s							08 - M8 x 1.25mm Male		
P - 峰值		150 - 0-150 mm/s							10 - M10 x 1.5mm Male		
PP - 峰峰值											



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Intrinsically Safe Requirements

See : www.hansfordsensors.com.cn attached system drawings		US/Canada Approvals	Certificate No. SGSNA/18/SUW/0000231 Class I, II, III, Division 1, 2, Groups A - G, T4, -40°C to +110°C, Class I, Zone 0, AEx, ia, IIC, T4, Ga, -40°C to +110°C Zone 20, AEx, ia, IIC, T130°C, IP65, Da, -40°C to +110°C
Certificate details: Group I + II	IECEX BAS08.0034X Baseefa08ATEX0086X ⓈII 1GD Ex ia IIC T6 Ga Ex ia IIIC T80°C IP65 Da ⓈI M1 Ex ia I Ma (-40°C ≤ Ta ≤ +60°C)	Barrier	1 x Pepperl + Fuchs Galvanic Isolator KFD2-STC4-Ex1, which has superseded KFD2-CR-Ex1.30300 (BAS00ATEX7164) see attached system drawings
Certificate details: Group II	ⓈII 1GD Ex ia IIC T4 Ga Ex ia IIIC T130°C IP65 Da (-60°C ≤ Ta ≤ +110°C)		1 x MTL Zener Barrier MTL7787+ (BAS01ATEX7217) or Pepperl + Fuchs Zener Barrier Z787 (BAS01ATEX7005) or any other barrier that conforms to system drawings attached
Accelerometer System Certificate	Baseefa08Y0087 Ex ia IIC T6 (-40°C ≤ Ta ≤ +60°C) *On request - consult Sales Office	System Connections for Zener Barrier	see attached system drawings
		System Connections for Galvanic Isolator	see attached system drawings
Terminal Parameters	Ui = 28V, Ii = 115mA, Pi = 0.65W Group II Ui = 16.5V Pi = 0.65W or Ui = 28V Ii = 115mA Pi = 0.65W Group I	Terminal Parameters	Ui = Vmax = 28V Ii = Imax = 115mA Pi = 0.65W
500V Isolation	Units Will Pass A 500V Isolation Test	Notes:	Special conditions of safe use for Group II dust. The free end of the cable on the integral cable version of the apparatus must be terminated in an appropriately certified dust-proof enclosure. The unit has no serviceable parts.
Certified Temperature Range	Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +60°C) (Gas) Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +110°C) (Gas) Ex ia IIIC T80°C IP65 Da (-40°C ≤ Ta ≤ +60°C) (Dust) Ex ia IIIC T130°C IP65 Da (-40°C ≤ Ta ≤ +110°C) (Dust) Ex ia I Ma (-40°C ≤ Ta ≤ +60°C) (Mining)		
Australia Approval Group 1	IECEX ITA 10.0003X Ex ia I Ma (-40°C ≤ Ta ≤ +60°C)		
South African Approval	Certificate No. MASC MS/16-0229X Group I and II (As Baseefa/ATEX)		



This product is certified in accordance with
UL 913, 8th Ed. Rev. December 6, 2013
CAN/CSA C22.2 No. 157-92 (R2012) +Upd1 +Upd2



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