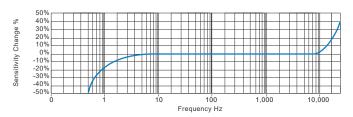
HS-150IS Premium Intrinsically Safe Accelerometer AC acceleration output via 3 Core Silicon Cable with Protective Over-Sheath

R15m k— 24mm → ø5mm **Key Features** Connection Details · Intrinsically Safe with European, O V (Black) USA, Indian and Australian approvals Side entry for easy access 64m · For use with data collector 29mm Connection (Red Industries er (White Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Eluoropolymer jacket (Clear) Water, Pharmaceutical -24mm k— 37π

Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt provided	see: 'How To Order' table x 35mm long
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%	Weight	205gms (nominal) body only
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB	Maximum Cable Length	See certificate
Isolation	Base isolated	Standard Cable Length	5 metres
Range	see: 'How To Order' table	Screened Cable	Silicon - length to be specified with order
Transverse Sensitivity	Less than 5%	Mounting Threads	See 'How To Order' table
		Submersible Depth	100 metres max (10 bar)

Electrical		Environmental
Excitation Voltage:	18-30Volts DC	Operating Temperature Range
Electrical Noise	0.1mg max	Sealing
Current Range	0.5mA to 8mA	Maximum Shock
Bias Voltage	10 - 12 Volts DC	EMC
Settling Time	2 seconds	
Output Impedance	200 Ohms max.	
Case Isolation	>10 ⁸ Ohms at 500 Volts	

Typical Frequency Response (at 100mV/g)



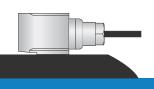
Applications

US

710318

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.)



see: attached certification details

IP68

5000g

EN61326-1:2013

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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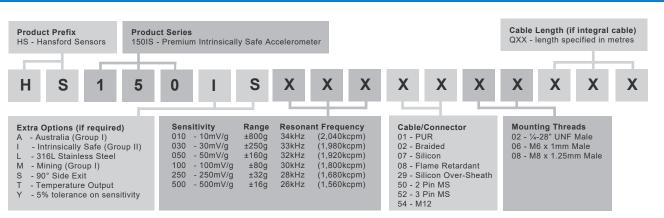
We reserve the right to alter the specification of this product without prior notice TS1014 2

HS-150IS Premium Intrinsically Safe Accelerometer AC acceleration output via 3 Core Silicon Cable with Protective Over-Sheath

Intrinsically Safe Requirem	ents		
Sensor Maximum Cable Length	Up to 92 metres	Certified Temperature Range	Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +57°C) (Gas)
0			Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +103°C) (Gas)
Certificate details: Group I	IECEx 18.0082X	Ex	k ia IIIC T110°C Da (-55°C ≤ Ta ≤ +57°C) (Dust)
	Baseefa18ATEX0130X		k ia IIIC T135°C Da (-55°C ≤ Ta ≤ +70°C) (Dust)
	ω Ι Μ 1	E>	(ia IIIC T145°C Da (-55°C ≤ Ta ≤ +92°C) (Dust)
	Ex ia I Ma		Ex ia I Ma (-55°C ≤ Ta ≤ +103°C) (Mining)
Certificate details: Group II and III	IECEx 18.0082X	Australian Approval Group I	IECEx ExTC 18.0032X
	Baseefa18ATEX0130X		Ex ia I Ma
	🖾 II 1GD		(-55°C ≤ Ta ≤ +104°C)
	Ex ia IIC T6T4 Ga		
	Ex ia IIIC T110°CT145°C Da	US/Canada Approvals	Certificate No. SGSNA/19/BAS/00005
			CI I, II, III, Div 1, 2 Gr A-G T*
Terminal Parameters 10m of cable	Ui = 28V, Ii = 93mA, Pi = 0.65W		CI I Zn 0 AEx ia IIC T6T4 Ga
	Ci = 5.0nF		Cl II Zn 20 AEx ia IIIC T110ºC…T145ºC Da
	Li= 7.2µH		CI II Zn 20 AEx ia IIIB T110°C…T145°C Da
			Ex ia IIC T6T4 Ga
Terminal Parameters 92m of cable	Ui = 28V, Ii = 93mA, Pi = 0.65W		Ex ia IIIC T110°CT145°C
	Ci = 35.9nF		
	Li= 66µH	Control Drawing	M06-083-A Overbraided Cable
			M06-084-A PUR Cable
500V Isolation	Units Will Pass A 500V Isolation Test		M06-085-A Silicone Cable
Chandrada Angliad ta Draduct			M06-086-A FR PUR Cable
Standards Applied to Product	EN IEC 60079-0:2018 EN 60079-11:2012		M06-087-A Various Cables (HS-150IT Only)
	LIN 00079-11.2012		
		Barrier	1 x Pepperl + Fuchs Galvanic Isolator
	IEC 60079-0 Edition 7 2017 IEC 60079-11 Edition 6 2011	1 × M	KFD2-VR4-Ex1.26 (BAS02ATEX7206)
	120 00073-11 Edition 0 2011	I X IVI	TL Zener Barrier MTL7728+ (BAS01ATEX7217) or Pepperl + Fuchs Zener Barrier
		7	728 (BAS01ATEX7005) or any other barrier that
		۷	conforms with the terminal parameters
			comorms with the terminal parameters

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.

How To Order





www.hansfordsensors.com sales@hansfordsensors.com

CE

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