

HS-100I

Intrinsically Safe, Oil Resistant & Submersible Integral Cable,
100mV/g Industrial Accelerometer

Performance

Mounted Base Resonance.....	18 kHz (nominal)
Sensitivity.....	100 mV/g $\pm 10\%$ Nominal 80 Hz at 71°F (22°C)
Frequency Response.....	0.8 Hz to 10 kHz $\pm 5\%$ 0.8 Hz to 15 kHz ± 3 dB
Isolation.....	Base isolated
Measurement Range.....	± 80 g
Transverse Sensitivity.....	Less than 5%

Mechanical

Case Material.....	Stainless Steel
Sensing Element/Construction.....	PZT/Compression
Mounting Torque.....	8 Nm
Weight.....	4.23 oz (120 gms) - nominal
Maximum Cable Length.....	3280 ft (1000 m)
Cable Utilized.....	Polyurethane Screened - Length to be specified with order
Mounting Threads.....	See 'How to Order' table
Submersible Depth.....	328 ft (100 m) max. (10 bar)

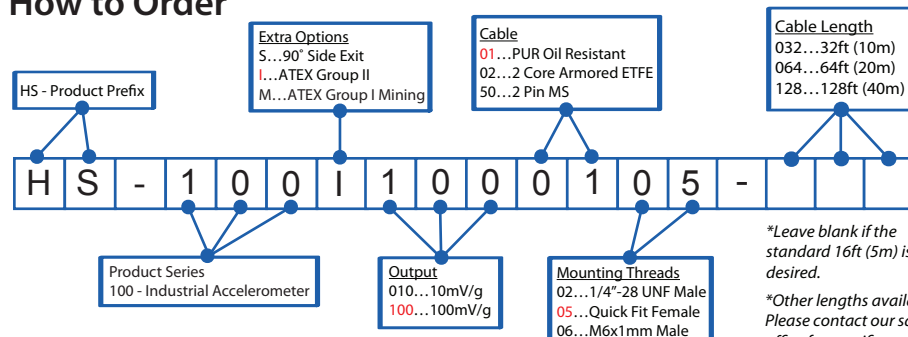
Electrical

Electrical Noise.....	0.1 mg max
Current Range.....	0.5 mA to 8 mA
Bias Voltage.....	10 - 12 Volts DC
Settling Time.....	2 seconds
Output Impedance.....	200 Ohms max.
Case Isolation.....	$>10^8$ Ohms at 500 Volts

Environmental

Certified Temperature Range.....	Ex ia IIC T6 (-67°F $\leq$ Ta $\leq$ 140°F) [-55°C $\leq$ Ta $\leq$ 60°C] Ex ia IIC T4 (-67°F $\leq$ Ta $\leq$ 230°F) [-55°C $\leq$ Ta $\leq$ 110°C] Specific Request - Consult Sales Office
Sensor Temperature Range.....	-40 to 194°F (-40 to 90°C)
Sealing.....	IP68
Maximum Shock.....	5000 g
Emissions.....	EN61000-6-4:2007
Immunity.....	EN61000-6-2:2005

How to Order



HS-100 Series Sensors

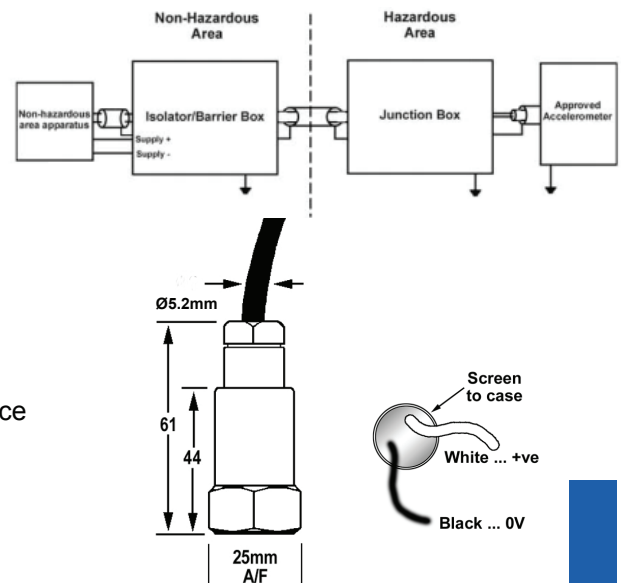


Features

For offline applications using commercially available intrinsically safe data collectors and online monitoring systems in the fields of Mining, Offshore, Petrochemical, Gas.

Protecting...

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyers, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, HVAC, Spindles, Machine Tooling, Process Equipment and many more.



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