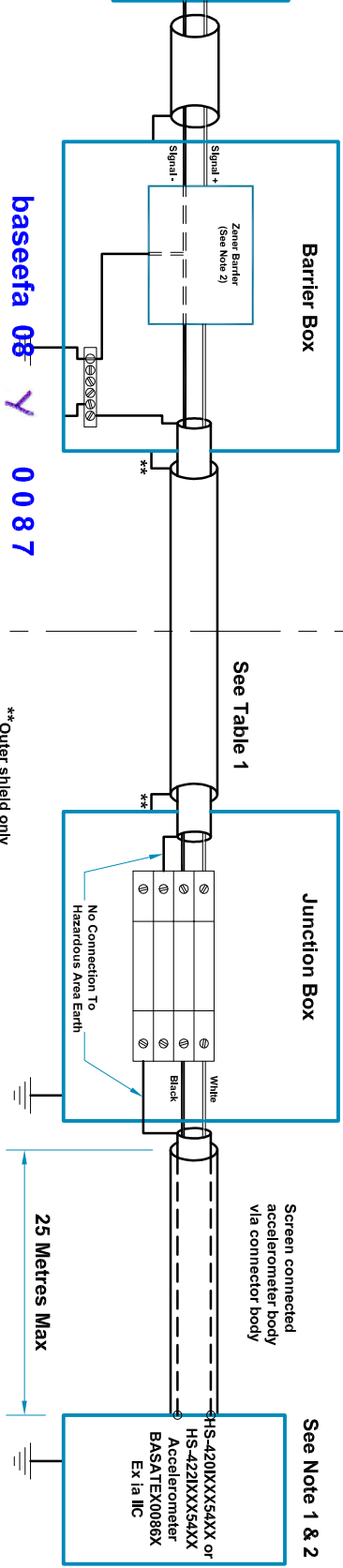


Non-hazardous area apparatus which is unspecified except that it must not be supplied from nor contain under normal or abnormal conditions, a source of potential with respect to earth in excess of 250 volts rms or 250 volts dc, under normal conditions the potential at the connections to the zener barrier must not exceed 40 volts dc.



Baseefa
Certification
Schedule
Drawing

[Handwritten Signature]

Table 1: Cable Connecting The Connector Version

Group	Capacitance μF	L/R Ratio $\mu\text{H}/\Omega$
IIC	0.080	56
IIB	0.246	168
IIA	0.661	448

Hansford Sensors Ltd
HS-4201 & HS-4221
Accelerometer System
Baseefa08Y0087
Ex ia IIC T6 (-40°C ≤ Ta ≤ +60°C)

- Notes:**
1. The capacitance and inductance, or inductance - to - resistance ratio (L/R) of hazardous area cable, must not exceed the values shown in Table 1.
 2. The cable from the accelerometer to the junction box must not be installed in a high velocity dust laden atmosphere
 3. Any shunt zener diode safety barrier certified by an ec approved body to [Ex ia] IIC having the following output parameters: Uo = 28V dc, Io = 93mA dc, Po = 0.65W, e.g. MTL7787+ to BAS01ATEX7217 or Peppert + Fuchs Z787 to BAS01ATEX7005
 4. The installer is to perform a risk assessment in accordance with clause 10 of EN 60079-25 and install lightning protection arrestors as deemed necessary.

Rev No	DRF No	Date Drg	Drg By	Appd By	Material: N/A
A	Release	31/03/08	MJS	CMH	

Hansford Sensors
Excellence in Vibration Monitoring

Hansford Sensors Ltd
Saunderton Business Park
Haw Lane
Saunderton
Bucks HP14 4JE

Description: System Connections
For HS-4201 & HS-4221 Group II Accelerometers With Connectors
F.U.W. Zener Barrier
Drawing No: M06-018-A

Tolerances Unless Stated	Finish	Threads
0 or 0.0	±0.5	1.6/ Finish All Over
0.00	±0.15	Threads g6 H6
Angle	±5°	

If In Doubt - Ask!

Scale: NTS
Sheet: 2 of 2

Form Number: QF024 Issue 1