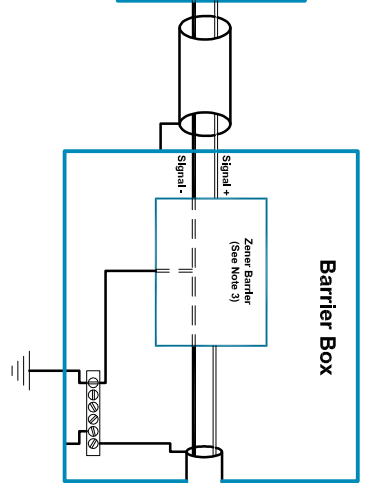
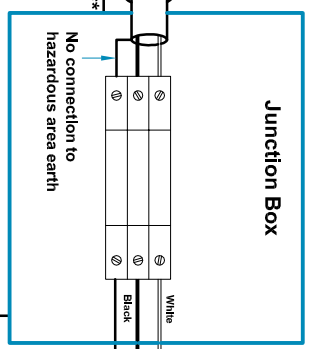


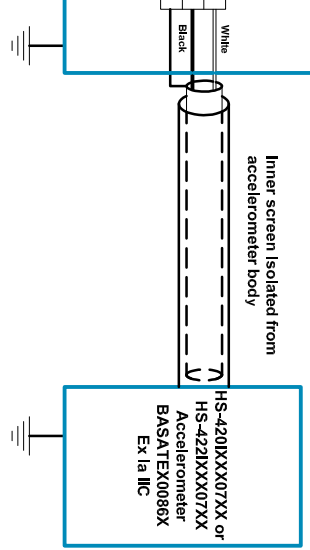
Non-hazardous area apparatus which is unspecified except that it must not be supplied from nor contain under normal or abnormal conditions, a source of potential with respect to earth in excess of 250 volts rms or 250 volts dc. under normal conditions the potential at the connections to the zener barrier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



Non-Hazardous Area



Hazardous Area



See Note 1 & 2

HS-420XXXX07XX or HS-4221XXX07XX Accelerometer BASATEX0086X Ex Ia IIC

Table 1: Cable Parameters For Additional Cable Lengths

Accelerometer With Integral Cable Length ≤ 10m	
Group	Capacitance µF
IIC	0.079
IIB	0.245
IJA	0.660
Accelerometer With Integral Cable Length ≤ 50m	
Group	Capacitance µF
IIC	0.064
IIB	0.230
IJA	0.645
Accelerometer With Integral Cable Length ≤ 100m	
Group	Capacitance µF
IIC	0.046
IIB	0.212
IJA	0.627



Baseefa Certification Schedule Drawing

baseefa 08 Y 0087

Handwritten signature

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 Pepperl + 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	10/03/08	MJS	CMH	



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

Description: System Connections
For HS-4201 & HS-4221 Group II Accelerometers With Non Armoured Silicone Cable F.U.W. Zener Barrier
Drawing No: M06-012-A

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

If In Doubt - Ask!

Do Not Scale

Scale: NTS
Form Number: QF024 Issue 1
Sheet: 2 of 2