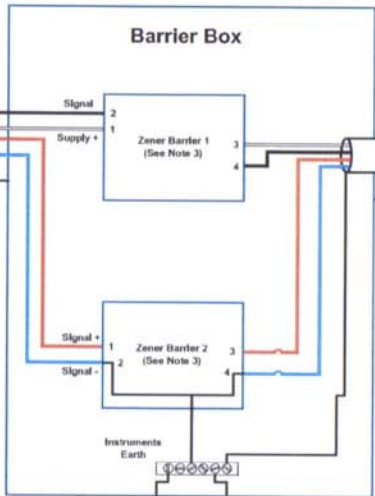
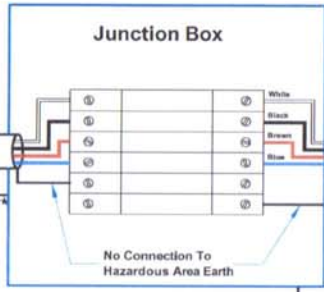


Non-hazardous area apparatus which is unspecified except that it must not be supplied from nor contain under normal or abnormal conditions, a source of potential with respect to earth in excess of 250 volts rms or 250 volts dc. under normal conditions the potential at the connections to the zener barrier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



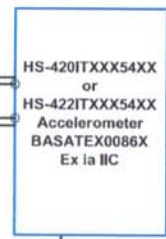
See Table 1



**Outer shield only connected to chassis via Ex approved cable gland

Screen connected accelerometer body via connector body

See Note 1 & 2



25 Metres Max

- Pin 1 (Brown), Temperature Output
- Pin 3 (Blue), Temperature Output (0V)
- Pin 2 (White), +VE
- Pin 4 (Black), 0V

baseefa 08 Y 0087 #1



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	17.9
IIB	0.246	60
IIA	0.661	161

Hansford Sensors Ltd

HS-420IT & HS-422IT Accelerometer System
Baseefa08Y0087
Ex ia IIC T6 (-40°C ≤ Ta ≤ +60°C)

Notes:

- The capacitance and inductance, or inductance - to - resistance ratio (L/R) of hazardous area cable, must not exceed the values shown in Table 1.
- The cable from the accelerometer to the junction box must not be installed in a high velocity dust laden atmosphere
- Zener diode safety barrier (1) certified by an ec approved body to [EEEx ia] IIC having the following output parameters: $U_o = 28\text{V dc}$, $I_o = 93\text{mA dc}$, $P_o = 0.65\text{W}$. e.g. MTL7787+ to BAS01ATEX7217 or Pepperl + Fuchs Z787 to BAS01ATEX7005
Zener diode safety barrier (2) certified by an ec approved body to [EEEx ia] IIC having the following output parameters: $U_o = 12\text{V dc}$, $I_o = 12\text{mA dc}$, $P_o = 0.036\text{W}$. MTL7764+ac to BAS01ATEX7217 or Pepperl + Fuchs Z764 to BAS01ATEX7005.
- The installer is to perform a risk assesment 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	23/06/08	MJS	CMH	

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

Hansford Sensors
Excellence in Vibration Monitoring
Hansford Sensors Ltd
Saunderton Business Park
Haw Lane
Saunderton
Bucks HP14 4JE

Do Not Scale
All Dimensions In mm Unless Otherwise Stated
If In Doubt - Ask!

Description: System Connections For HS-420IT & HS-422IT Group II Accelerometers With Connectors F.U.W. Zener Barrier
Drawing No: M06-023-A
Scale: NTS
Sheet: 2 of 2
Form Number: QF024 Issue 1