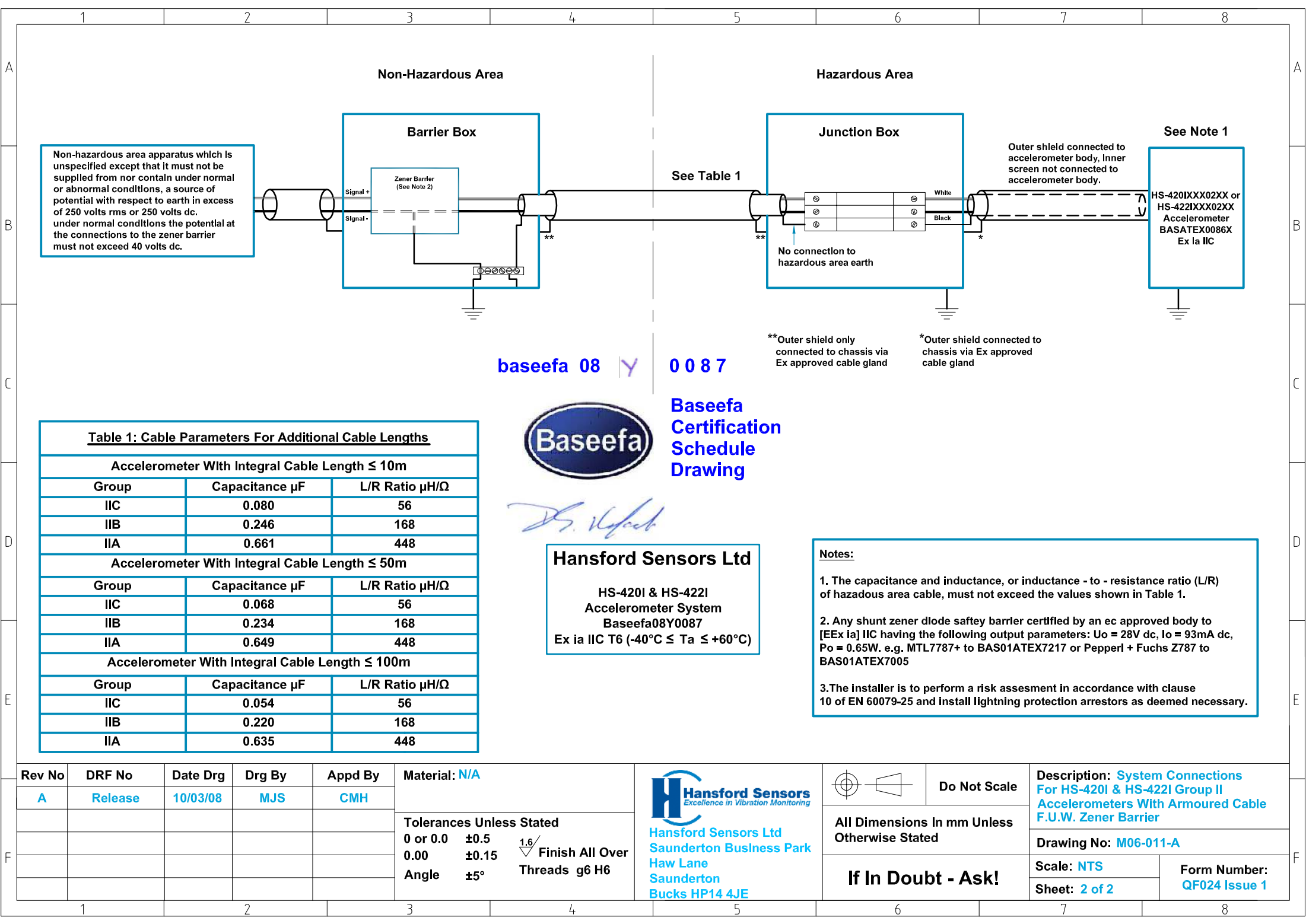




Non-hazardous area apparatus which is unspecified except that it must not be supplied from nor contain under normal or abnormal conditions, a source of potential with respect to earth in excess of 250 volts rms or 250 volts dc. under normal conditions the potential at the connections to the zener barrier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

See Note 1
HS-420I or HS-422I Accelerometer
BASATEX0086X
Ex ia IIC

Table 1: Cable Parameters For Additional Cable Lengths		
Accelerometer With Integral Cable Length ≤ 10m		
Group	Capacitance µF	L/R Ratio µH/Ω
IIC	0.080	56
IIB	0.246	168
IIA	0.661	448
Accelerometer With Integral Cable Length ≤ 50m		
Group	Capacitance µF	L/R Ratio µH/Ω
IIC	0.068	56
IIB	0.234	168
IIA	0.649	448
Accelerometer With Integral Cable Length ≤ 100m		
Group	Capacitance µF	L/R Ratio µH/Ω
IIC	0.054	56
IIB	0.220	168
IIA	0.635	448



Baseefa
Certification
Schedule
Drawing

Hansford Sensors Ltd

HS-420I & HS-422I
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. Any shunt zener diode safety barrier certified by an EC approved body to [EEEx 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
3. 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
A	Release	10/03/08	MJS	CMH

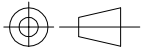
Material: N/A

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-420I & HS-422I Group II
Accelerometers With Armoured Cable
F.U.W. Zener Barrier

Drawing No: M06-011-A

Scale: NTS
Sheet: 2 of 2

Form Number:
QF024 Issue 1