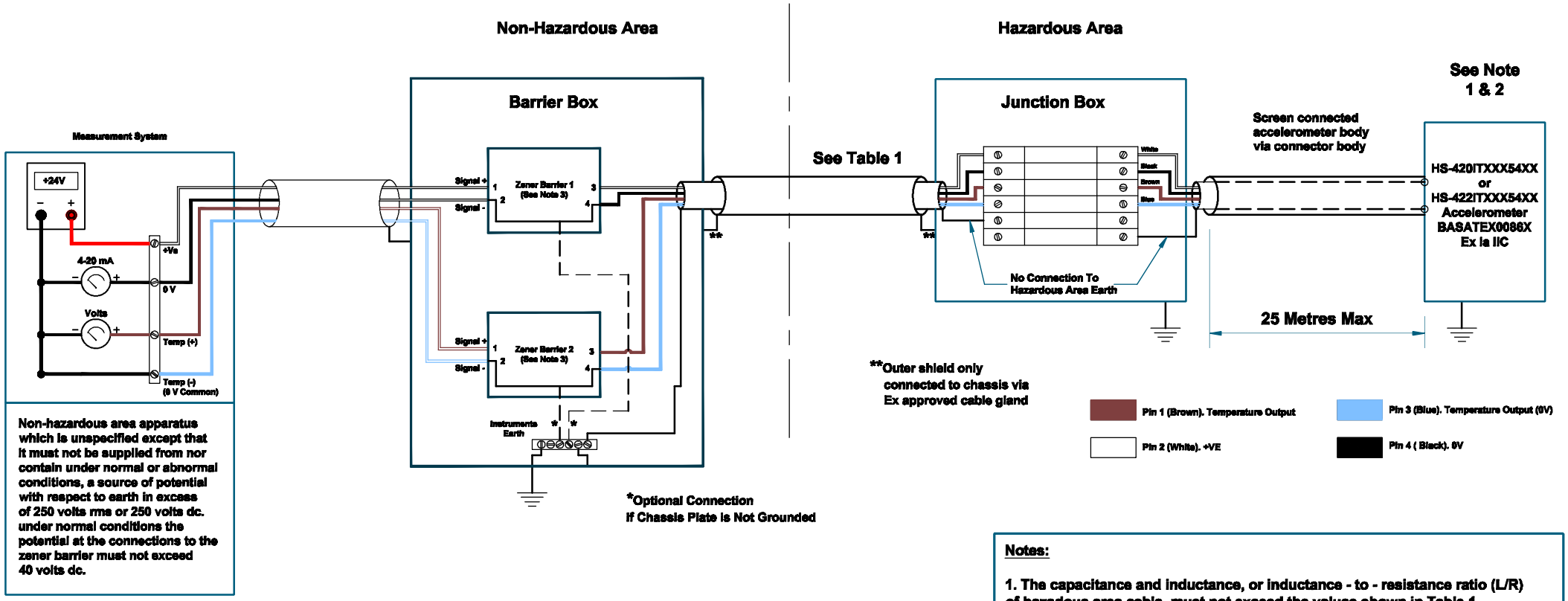

Non-hazardous area apparatus which is unspecified except that it must not be supplied from nor contain under normal or abnormal conditions, a source of potential with respect to earth in excess of 250 volts rms or 250 volts dc. under normal conditions the potential at the connections to the zener barrier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

Table 1: Cable Connecting The Connector Version

Group	Capacitance µF	L/R Ratio µH/Ω
IIC	0.080	17.9
IIB	0.246	60
IIA	0.661	161

Hansford Sensors Ltd

HS-420IT & HS-422IT Accelerometer System

Ex ia IIC T6 (-40°C ≤ Ta ≤ +60°C)

Notes:

1. The capacitance and inductance, or inductance - to - resistance ratio (L/R) of hazadous 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. Zener diode saftey barrier (1) certified by an ec approved body to [EEx 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
Zener diode saftey barrier (2) certified by an ec approved body to [EEx ia] IIC having the following output parameters: Uo = 12V dc, Io = 12mA dc, Po = 0.036W. MTL7764+ac to BAS01ATEX7217 or Pepperl + Fuchs Z764 to BAS01ATEX7005.

4.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
A	Release	16/04/15	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
Artisan, Hillbotom Rd
Sands Industrial Estate
High Wycombe
Bucks HP12 4HJ

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: M06-051-A

Scale: NTS

Sheet: 1 of 1

Form Number: QF024 Issue 1