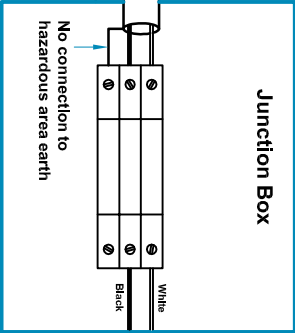
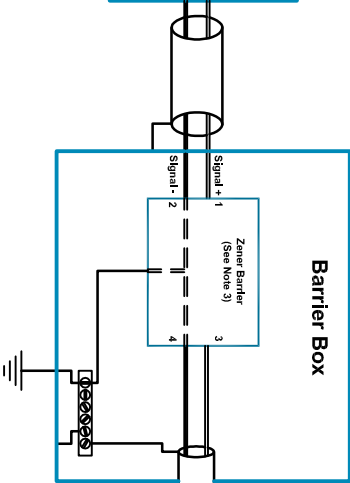


Non-Hazardous Area

Hazardous Area

See Note 1 & 2

Non-hazardous area apparatus which is unsuspected 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.



HS-1001XXX02XX or HS-1001SXXX02XX Accelerometer BAS07ATEX0144 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	0.073	56
IIB	0.239	168
IIA	0.654	448
Accelerometer With Integral Cable Length ≤ 50m		
Group	Capacitance µF	L/R Ratio µH/Ω
IIC	0.038	56
IIB	0.204	168
IIA	0.619	448
Accelerometer With Integral Cable Length ≤ 92m		
Group	Capacitance µF	L/R Ratio µH/Ω
IIC	0.000	56
IIB	0.166	168
IIA	0.581	448

Hansford Sensors Ltd
HS-1001 or HS-1001S Accelerometer System
Baseefa07Y0145/1
Ex ia IIC T4 (-55°C ≤ Ta ≤ +110°C) or
Ex ia IIC T6 (-55°C ≤ Ta ≤ +60°C)

Notes:

1. The capacitance and 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 single zener diode safety barrier certified by an approved body to [Ex ia] IIC having the following output parameters: Uo = 28V dc, Io = 93mA dc, Po = 0.65W, e.g. MTL7728 to BAS01ATEX7217 or Pepperl + Fuchs Z728 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
A	Release	15/06/07	MJS	CMH
B	DFR0164	13/01/11	MJS	CMH
C	DFR0284	15/06/12	MJS	CMH
F				
1				

Material: N/A



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Bucks HP12 4HJ



Do Not Scale

All Dimensions in mm Unless Otherwise Stated

Description: System Connections For HS-1001 & HS-1001S Group II Accelerometers With Non Armoured PUR Cable F.U.W. Zener Barrier

Drawing No: M06-004-C

Scale: NTS

Sheet: 2 of 2

If In Doubt - Ask!

Form Number: QF024 Issue 1