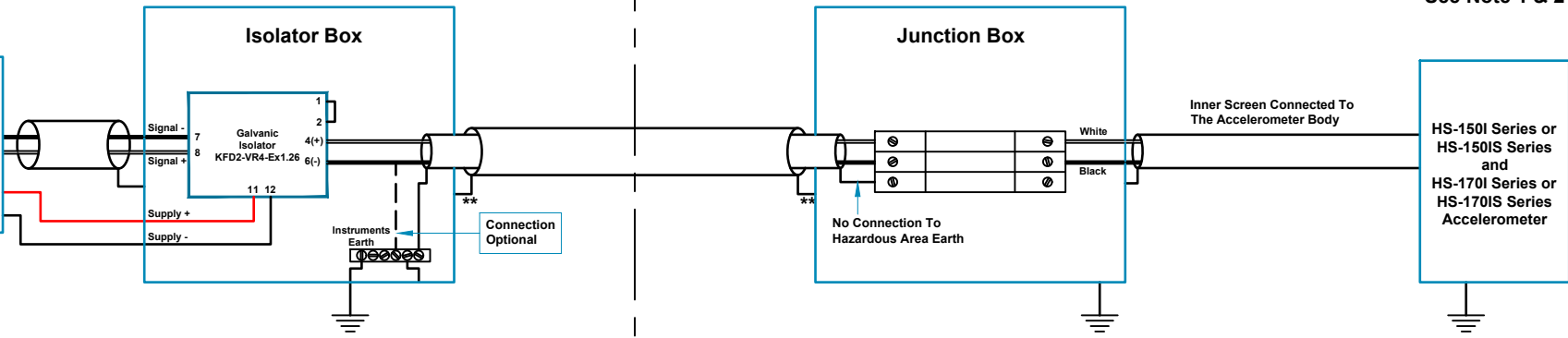


Non-hazardous area apparatus which is unspecified except that it must not be supplied from nor contain under normal or abnormal conditions, a source of potential with respect to earth in excess of 250 volts DC. under normal conditions the potential at the connections to the galvanic isolator must not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



Certificate details: Group II and III Integral Cable  
 SGSNA/19/BAS/00005  
 CI I, II, III, Div 1, 2 Gr A-G T\*  
 CI I Zn 0 AEx ia IIC T6...T4 Ga  
 CI II Zn 20 AEx ia IIIC T\*...T\* Da  
 CI II Zn 20 AEx ia IIIB T\*...T\* Da  
 Ex ia IIC T6...T4 Ga  
 Ex ia IIIC T110°C...T145 Da

Terminal Parameters 92m of cable  
 $U_i = 28V$ ,  $I_i = 93mA$ ,  $P_i = 0.65W$   
 $C_i = 35.9nF$   
 $L_i = 66\mu H$

Certificate details: Group II and III Connector  
 SGSNA/19/BAS/00005  
 CI I, II, III, Div 1, 2 Gr A-G T\*  
 CI I Zn 0 AEx ia IIC T6...T4 Ga  
 CI II Zn 20 AEx ia IIIC T135°C Da  
 Ex ia IIC T6...T4 Ga  
 Ex ia IIIC T135°C Da

Isolators/Zenner Barriers  
 $U_i \geq U_o$   
 $I_i \geq I_o$   
 $P_i \geq P_o$   
 $C_o \geq C_i + C_{cable}$   
 $L_o \geq L_i + L_{cable}$

Certificate details: Group II and III Connector  
 SGSNA/19/BAS/00005  
 CI I, II, III, Div 1, 2 Gr A-D G and FT\*  
 CI I Zn 0 AEx ia IIC T6...T4 Ga  
 CI II Zn 20 AEx ia IIIB T110°C...T145°C Da  
 Ex ia IIC T6...T4 Ga  
 Ex ia IIIB T110°C...T145°C Da

Certified Temperature Range  
 Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +57°C) (Gas)  
 Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +103°C) (Gas)  
 Ex ia IIIB T110°C Da (-55°C ≤ Ta ≤ +57°C) (Dust Connector Only)  
 Ex ia IIIC T110°C Da (-55°C ≤ Ta ≤ +57°C) (Dust Integral Cable Only)  
 Ex ia IIIC T135°C Da (-55°C ≤ Ta ≤ +70°C) (Dust Connector and Integral cable)  
 Ex ia IIIB T145°C Da (-55°C ≤ Ta ≤ +92°C) (Dust Connector Only)  
 Ex ia IIIC T145°C Da (-55°C ≤ Ta ≤ +92°C) (Dust Integral Cable Only)

Terminal Parameters Connector  
 $U_i = 28V$ ,  $I_i = 93mA$ ,  $P_i = 0.65W$   
 $C_i = 1.2nF$   
 $L_i = 0$

Units Will Pass A 500V Isolation Test

Terminal Parameters 10m of cable  
 $U_i = 28V$ ,  $I_i = 93mA$ ,  $P_i = 0.65W$   
 $C_i = 5.0nF$   
 $L_i = 7.2\mu H$

500V Isolation Units Will Pass A 500V Isolation Test

Special conditions of use: When a sensor is supplied with integral cable, this must be terminated in an enclosure providing at least degree of protection IP20.

Note: If the equipment is to be used in unusual environments or aggressive substances are likely to be encountered, contact the manufacturer to discuss suitability.

**Hansford Sensors Ltd**  
 HS-150I, HS-150IS, HS-170I and HS-170IS Series Accelerometer System

**Notes:**  
 1 The cable from the accelerometer to the junction box must not be installed in a high velocity dust laden atmosphere  
 2. 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	15/03/19	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, Hillbottom 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-150I, HS-150IS and HS-170I, HS-170IS Accelerometers With FR PUR Cable F.U.W. Galvanic Isolation  
 Drawing No: M06-086-A  
 Scale: NTS  
 Sheet: 1 of 2  
 Form Number: QF024 Issue 1