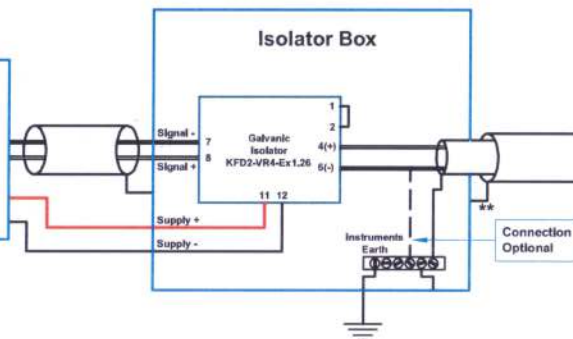
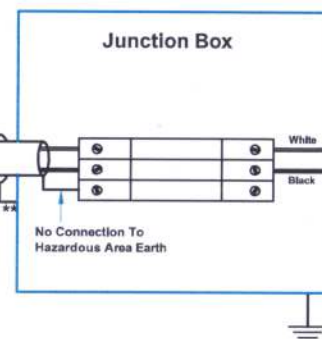


Non-hazardous area apparatus which is unspecified except that it must not be supplied from nor contain under normal or abnormal conditions, a source of potential with respect to earth in excess of 250 volts DC.
under normal conditions the potential at the connections to the galvanic isolator must not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



Hazardous Area



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

Inner Screen Connected To The Accelerometer Body

See Note 1 & 2

HS-100DXX01XX or HS-100ISXX01XX Accelerometer BAS07ATEX0144 Ex Ia IIC

Baseefa07Y0145/1
Baseefa Certification Schedule Drawing

D.S. Kerfoot
D.S. Kerfoot

Table 1: Cable Parameters For Additional Cable Lengths

Accelerometer With Integral Cable Length $\leq 10\text{m}$		
Group	Capacitance μF	L/R Ratio $\mu\text{H}/\Omega$
IIC	0.086	46
IIB	0.730	172
IIA	2.470	363
Accelerometer With Integral Cable Length $\leq 50\text{m}$		
Group	Capacitance μF	L/R Ratio $\mu\text{H}/\Omega$
IIC	0.051	46
IIB	0.695	172
IIA	2.435	363
Accelerometer With Integral Cable Length $\leq 92\text{m}$		
Group	Capacitance μF	L/R Ratio $\mu\text{H}/\Omega$
IIC	0.013	46
IIB	0.657	172
IIA	2.397	363

Hansford Sensors Ltd

HS-100I or HS-100IS
Accelerometer System
Baseefa07Y0145/1
Ex ia IIC T4 ($-55^{\circ}\text{C} \leq T_a \leq +110^{\circ}\text{C}$) or
Ex ia IIC T6 ($-55^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$)

Notes:

- The capacitance and 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
- 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	Material: N/A	Hansford Sensors <i>Excellence in Vibration Monitoring</i> Hansford Sensors Ltd Artisan, Hillbottom Rd Sands Industrial Estate High Wycombe Bucks HP12 4HJ		Do Not Scale	Description: System Connections For HS-100I & HS-100IS Group II Accelerometers With Non Armoured Silicone Cable F.U.W. Galvanic Isolation	
A	Release	15/06/07	MJS	CMH	Tolerances Unless Stated 0 or 0.0 ±0.5 0.00 ±0.15 Angle ±5°  Finish All Over Threads g6 H6		All Dimensions In mm Unless Otherwise Stated		Drawing No: M06-005-B	
B	DFR0164	13/01/11	MJS	CMH			If In Doubt - Ask!		Scale: NTS	Form Number: QF024 Issue 1
									Sheet: 1 of 2	