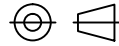


**DO NOT SCALE**

QF71 Iss.1



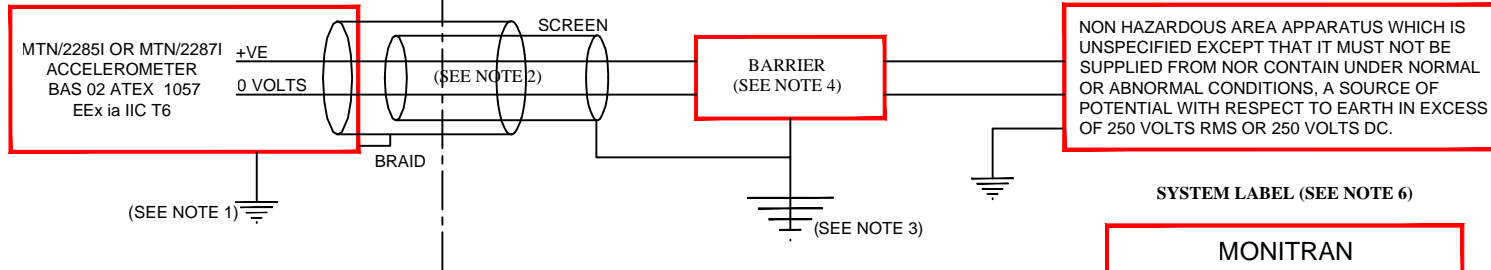
**DRAWN TO MONITRAN PROCEDURE W/E/012 ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED**

**THIS DRAWING IS THE PROPERTY OF MONITRAN LIMITED AND MUST NOT BE COPIED OR DISCLOSED TO THIRD PARTIES WITHOUT PRIOR PERMISSION**

***If in doubt - ASK***

**HAZARDOUS AREA**

**NON-HAZARDOUS AREA**



- NOTES:**
1. The electrical circuit in the hazardous area must be capable of withstanding an AC test voltage of 500 volts RMS. to earth or frame of apparatus for 1 minute. The cable braid must be capable of withstanding an AC test voltage of 500 volts RMS. to the cable screen for 1 minute.
  2. The capacitance and inductance, or inductance to resistance (L/R) ratio of the hazardous area cable must not exceed the values shown in Table 1.
  3. The installation, including barrier earthing arrangements, must comply with the installation requirements of the country of use e.g.. in the UK, EN 60079-14.
  4. Any shunt Zener Diode safety barrier certified by an EEC approved body to [EEEx ia] IIC having the following output parameters:  
 $U_o = 28 \text{ V dc}$ ,  $I_o = 93\text{mA dc}$ ,  $P_o = 0.65\text{W}$   
 E.g.. MTL 787S, BAS01ATEX7202 or Pepperl + Fuchs Z787, BAS01ATEX7005.
  5. The braid must not be connected to earth in the Non Hazardous Area.
  6. The system must be marked with a durable label. The label should appear on or adjacent to the principal item of electrical apparatus of the system or at the interface between the intrinsically safe and non intrinsically safe circuits.

**SYSTEM LABEL (SEE NOTE 6)**

**MONITRAN**  
 MTN/2285I OR MTN/2287I  
 ACCELEROMETER SYSTEM  
 Baseefa 02Y0236  
 EEx ia IIC T6

**TABLE 1: CABLE PARAMETERS FOR ADDITIONAL CABLE**

Accelerometer with integral cable length  $\leq 10\text{m}$

GROUP	CAPACITANCE $\mu\text{F}$	INDUCTANCE mH or L/R RATIO $\mu\text{H}/\Omega$
IIC	0.058	4.2 55
IIB	0.625	17.37 207
IIA	2.125	35.29 436

Accelerometer with integral cable length  $> 10\text{m}$  and  $\leq 50\text{m}$

GROUP	CAPACITANCE $\mu\text{F}$	INDUCTANCE mH or L/R RATIO $\mu\text{H}/\Omega$
IIC	0.052	4.18 55
IIB	0.619	17.35 207
IIA	2.119	35.27 436

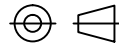
Accelerometer with integral cable length  $> 50\text{m}$  and  $\leq 100\text{m}$

GROUP	CAPACITANCE $\mu\text{F}$	INDUCTANCE mH or L/R RATIO $\mu\text{H}/\Omega$
IIC	0.045	4.16 55
IIB	0.612	17.32 207
IIA	2.112	35.24 436

ISS	DESCRIPTION	BY	CHECKED BY	RECEIVED BY	DATE	MATERIAL: N/A	SCALE NTS	<b>Monitran Limited</b>
1	ECN4688	CL	TB		10/12/12			
						TOLERANCES UNLESS STATED	FINISH $\frac{1.6}{\nabla}$ ALL OVER THREADS g6 H6	TITLE: SYSTEM CONNECTION DRAWING FOR MTN/2285I & MTN/2287I ACCELEROMETERS WITH ZENER BARRIER TO THE PARAMETERS DETAILED IN NOTE 4 ABOVE
						0 or 0.0 $\pm 0.5$		DRAWING NUMBER: ATX038 (SEE ATX009)
						0.00 $\pm 0.15$		SHEET 1 OF 2
						ANGLES $\pm 5^\circ$		

**DO NOT SCALE**

QF71 Iss.1



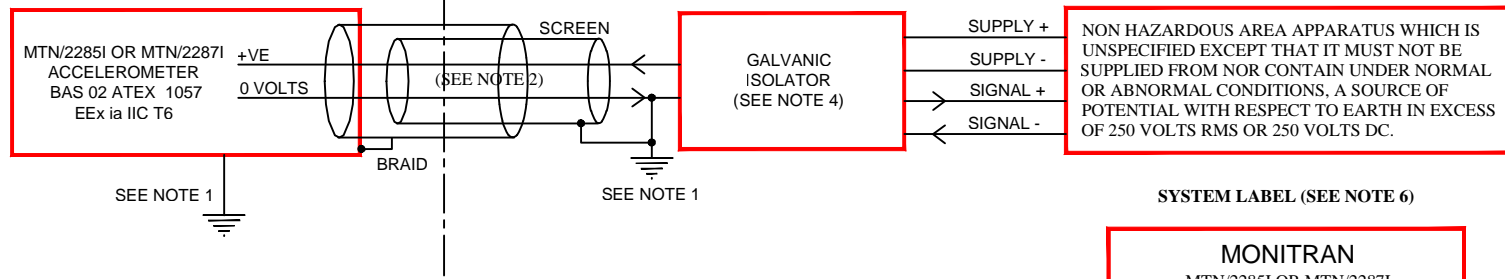
**DRAWN TO MONITRAN PROCEDURE W/E/012 ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED**

**THIS DRAWING IS THE PROPERTY OF MONITRAN LIMITED AND MUST NOT BE COPIED OR DISCLOSED TO THIRD PARTIES WITHOUT PRIOR PERMISSION**

***If in doubt - ASK***

**HAZARDOUS AREA**

**NON-HAZARDOUS AREA**



- NOTES:**
1. The apparatus earth and braid must be capable of withstanding an AC test voltage of 500 volts RMS. to the 0V and screen earth for 1 minute.
  2. The capacitance and inductance, or inductance to resistance (L/R) ratio of the hazardous area cable must not exceed the values shown in Table 1.
  3. The installation must comply with the installation requirements of the country of use e.g. in the UK, EN 60079-14.
  4. Any Galvanic Isolator, (current repeater type) certified by an EEC approved body to [EEEx ia] IIC having the following output parameters:  
 $U_o = 28 \text{ V dc}$ ,  $I_o = 93\text{mA dc}$ ,  $P_o = 0.65\text{W}$   
 E.g., MTL 5041, BAS01ATEX7155 or Pepperl + Fuchs KFD2-CR-Ex1.30-200, BAS00ATEX7164X.
  5. The braid must not be connected to earth in the Non Hazardous Area.
  6. The system must be marked with a durable label. The label should appear on or adjacent to the principal item of electrical apparatus of the system or at the interface between the intrinsically safe and non intrinsically safe circuits.

**SYSTEM LABEL (SEE NOTE 6)**

**MONITRAN**  
 MTN/2285I OR MTN/2287I  
 ACCELEROMETER SYSTEM  
 Baseefa 02Y0236  
 EEx ia IIC T6

**TABLE 1: CABLE PARAMETERS FOR ADDITIONAL CABLE**

Accelerometer with integral cable length  $\leq 10\text{m}$

GROUP	CAPACITANCE $\mu\text{F}$	INDUCTANCE mH or L/R RATIO $\mu\text{H}/\Omega$	
IIC	0.058	4.2	55
IIB	0.625	17.37	207
IIA	2.125	35.29	436

Accelerometer with integral cable length  $> 10\text{m}$  and  $\leq 50\text{m}$

GROUP	CAPACITANCE $\mu\text{F}$	INDUCTANCE mH or L/R RATIO $\mu\text{H}/\Omega$	
IIC	0.052	4.18	55
IIB	0.619	17.35	207
IIA	2.119	35.27	436

Accelerometer with integral cable length  $> 50\text{m}$  and  $\leq 100\text{m}$

GROUP	CAPACITANCE $\mu\text{F}$	INDUCTANCE mH or L/R RATIO $\mu\text{H}/\Omega$	
IIC	0.045	4.16	55
IIB	0.612	17.32	207
IIA	2.112	35.24	436

ISS	DESCRIPTION	BY	CHECKED BY	RECEIVED BY	DATE	MATERIAL: N/A	SCALE NTS	<b>Monitran Limited</b>
1	ECN4688	CL	TB		10/12/12			
						TOLERANCES UNLESS STATED	FINISH $\frac{1.6}{\nabla}$ ALL OVER THREADS g6 H6	TITLE: SYSTEM CONNECTION DRAWING FOR MTN/2285I & MTN/2287I ACCELEROMETERS WITH GALVANIC ISOLATER TO THE PARAMETERS DETAILED IN NOTE 4 ABOVE DRAWING NUMBER: ATX038 (SEE ATX009)
						0 or 0.0 $\pm 0.5$		SHEET 2 OF 2
						0.00 $\pm 0.15$		
						ANGLES $\pm 5^\circ$		