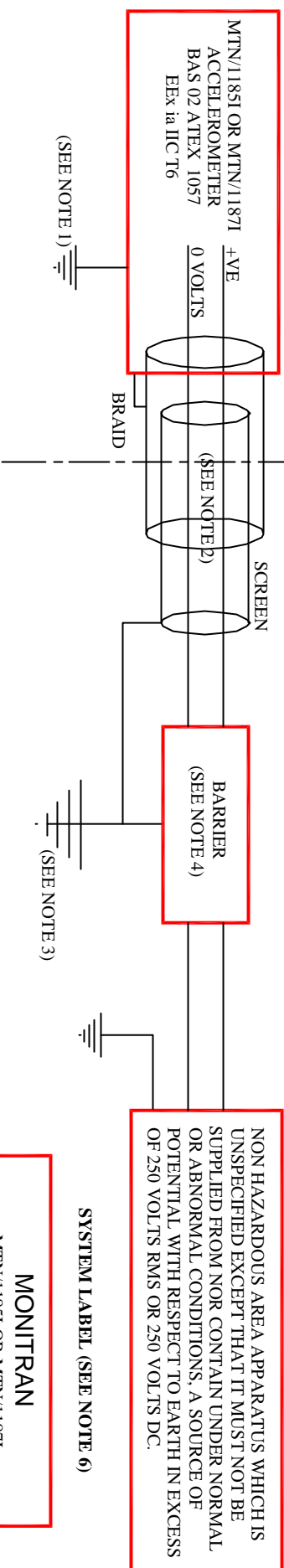


HAZARDOUS AREA

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 [EEx 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 Peperl + 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.

TABLE 1: CABLE PARAMETERS FOR ADDITIONAL CABLE

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

GROUP	CAPACTTANCE μF	INDUCTANCE mH or L/R RATIO $\mu\text{H}/\Omega$
IIC	0.058	4.2
IIB	0.625	17.37
IIA	2.125	35.29

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

GROUP	CAPACTTANCE μF	INDUCTANCE mH or L/R RATIO $\mu\text{H}/\Omega$
IIC	0.052	4.18
IIB	0.619	17.35
IIA	2.119	35.27

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

GROUP	CAPACTTANCE μF	INDUCTANCE mH or L/R RATIO $\mu\text{H}/\Omega$
IIC	0.045	4.16
IIB	0.612	17.32
IIA	2.112	35.24

MONITRAN
 MTN/11851 OR MTN/11871
 ACCELEROMETER SYSTEM
 Baseefa 02Y0236
 EEx ia IIC T6

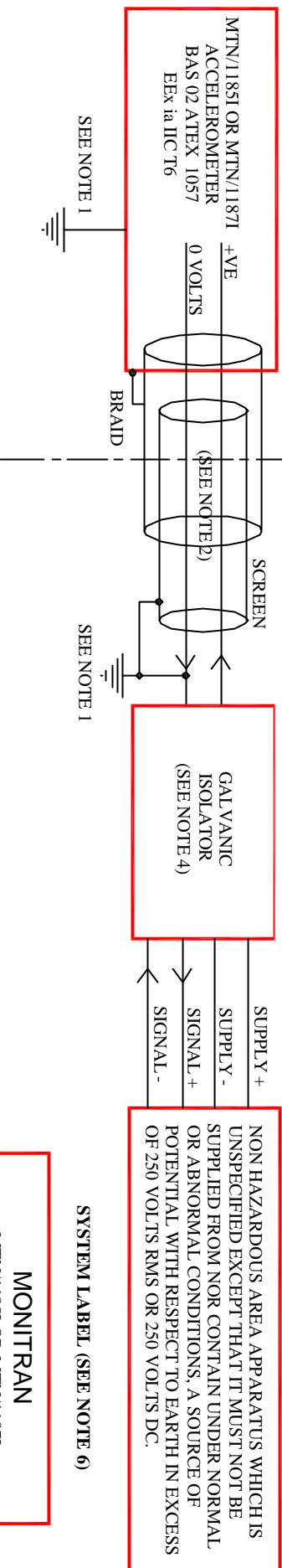
		DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
		DRAWING NUMBER: ATX009					
		DRAWING TITLE: SYSTEM CONNECTION DRAWING FOR MTN/11851 & MTN/11871 ACCELEROMETERS WITH ZENER BARRIER TO THE PARAMETERS DETAILED IN NOTE 4 ABOVE					
1	RELEASE	SRB	12/12/02				
ISS	DESCRIPTION	BY	DATE				

Monitran Limited

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HAZARDOUS AREA

NON-HAZARDOUS AREA



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.

MONITRAN
 MTN/11851 OR MTN/11871
 ACCELEROMETER SYSTEM
 Baseefa 02Y0236
 EEx ia IIC T6



SYSTEM LABEL (SEE NOTE 6)

- 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 [EEC] IIC having the following output parameters:
 $U_o = 28 \text{ V dc}$, $I_o = 93\text{mA dc}$, $P_o = 0.65\text{W}$
 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.

TABLE 1: CABLE PARAMETERS FOR ADDITIONAL CABLE

Accelerometer with integral cable length $\leq 10\text{m}$			
GROUP	CAPACTANCE μF	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	CAPACTANCE μF	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	CAPACTANCE μF	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	DATE	DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
1	RELEASE	SRB	12/12/02						

DRAWING NUMBER: ATX009		DRAWING TITLE: SYSTEM CONNECTION DRAWING FOR MTN/11851 & MTN/11871 ACCELEROMETERS WITH GALVANIC ISOLATER TO THE PARAMETERS DETAILED IN NOTE 4 ABOVE	
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