

NOTES

1. THE ELECTRICAL CIRCUIT IN THE HAZARDOUS AREA MUST BE CAPABLE OF WITHSTANDING AN A.C. TEST VOLTAGE OF 500 VOLTS R.M.S. TO EARTH OR FRAME OF THE APPARATUS FOR 1 MINUTE.
2. CABLE CAPACITANCE AND INDUCTANCE PLUS THE I.S. APPARATUS UNPROTECTED CAPACITANCE (Ci) AND INDUCTANCE (Li) MUST NOT EXCEED THE ALLOWED CAPACITANCE (Ca) AND INDUCTANCE (La) INDICATED ON THE ASSOCIATED APPARATUS.

3. ANY POSITIVE POLARITY SAFETY BARRIER APPROVED BY FMRC FOR GROUPS A,B,C AND D WHOSE OUTPUT PARAMETERS ARE :-

Voc or Vt  $\geq$  12V and  $\leq$  30V  
 Isc or It  $\leq$  96mA  
 Pmax  $\leq$  0.8W  
 eg. MTL 728  
 P & F Z428/Ex

THE OUTPUT CURRENT MUST BE LIMITED BY A RESISTOR R SUCH THAT  $R \geq Voc / Isc$

4. THE INSTALLATION INCLUDING THE BARRIER EARTHING ARRANGEMENTS MUST COMPLY WITH THE INSTALLATION REQUIREMENTS OF THE COUNTRY OF USE, ie. ANSI/ISA RP12.6 (INSTALLATION OF INTRINSICALLY SAFE SYSTEMS FOR HAZARDOUS (CLASSIFIED) LOCATIONS) AND THE NATIONAL ELECTRICAL CODE. INSTALLATION MUST BE IN ACCORDANCE WITH THE MANUFACTURERS GUIDELINES.

**FM**  
**CERTIFIED PRODUCT**  
 No modifications are permitted without reference to FMRC.

UNSPECIFIED TOLERANCES  
 X  $\pm$  0.5mm X.XX  $\pm$  0.15mm  
 X.X  $\pm$  0.25mm ANGLES  $\pm$  1°  
 REMOVE ALL BURRS & SHARP EDGES TO 0.25 MAX  
 SURFACE FINISH  $\nabla$  3.2  
 UNLESS OTHERWISE STATED

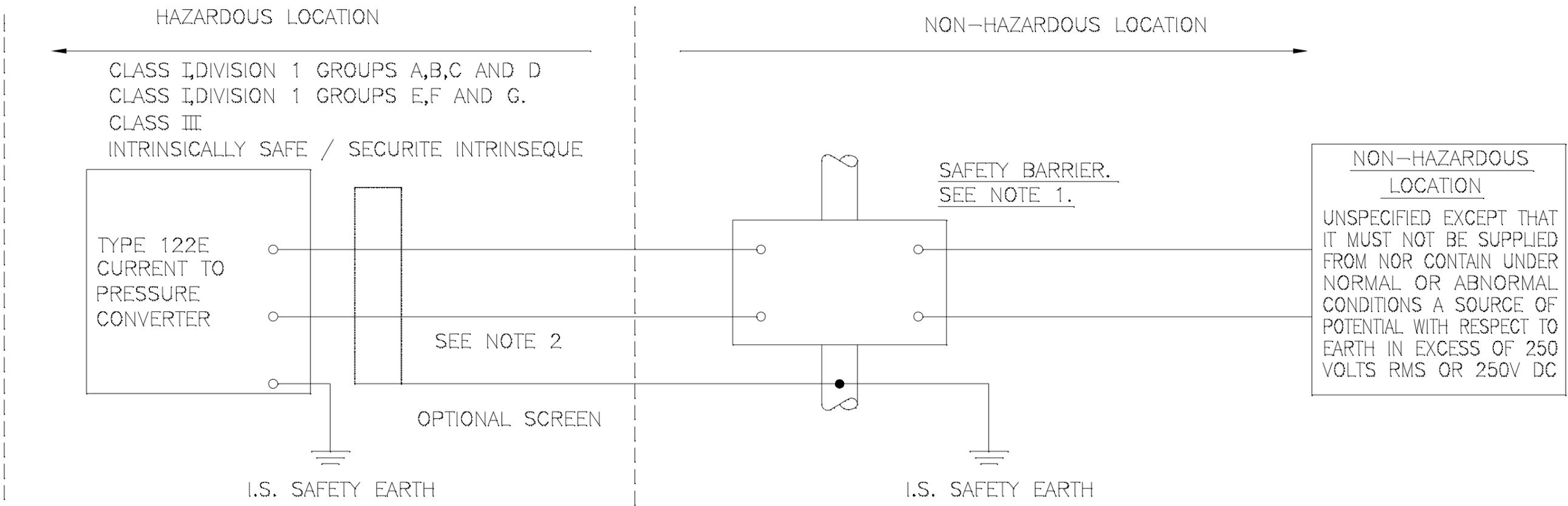
CHECKED	APPROVED
M. ATKINSON	
DRAWN	DATE APPROVED

**WATSON SMITH LTD**  
 CROSS CHANCELLOR ST,  
 LEEDS, LS62RT.  
 TEL: 0113 245 7587  
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 DRAWN TO BS508

TYPE 122  
 INTRINSICALLY SAFE FM  
 CONTROL DRAWING  
 TITLE

T DISC	N.T.S. SCALE
	96-057
	DRG NO.

C	{ 3084 }	17-7-96			
B		11-7-96			
A		12-3-96			
ISS	NO.	DATE	ISS	NO.	DATE



TEMPERATURE CODE	AMBIENT (MAX)
T4A	85°C
T6	55°C

NOTES

1. ANY POSITIVE POLARITY SAFETY BARRIER APPROVED BY C.S.A. FOR GROUPS A, B, C AND D WHOSE OUTPUT PARAMETERS ARE :-  
 28V (max)  
 300 Ohms (min)  
 eg. MTL 728 +  
 P & F Z428/Ex

2. THE INSTALLATION INCLUDING THE BARRIER EARTHING ARRANGEMENTS MUST COMPLY WITH THE CANADIAN ELECTRICAL CODE PART I.

**C.S.A.**  
**CERTIFIED PRODUCT**  
 No modifications are permitted without reference to C.S.A.

C B A	{ 3084 }	4-9-96	ISS	NO.	DATE	UNSPECIFIED TOLERANCES X ±0.5mm X.XX ±0.15mm X.X ±0.25mm ANGLES ±1° REMOVE ALL BURRS & SHARP EDGES TO 0.25 MAX SURFACE FINISH $\nabla$ <sub>3.2</sub>	WHERE USED	CHECKED	APPROVED	MATERIAL	WATSON SMITH LTD CROSS CHANCELLOR ST, LEEDS, LS62RT. TEL:0113 245 7587 THIS DRAWING IS CONFIDENTIAL. COPYRIGHT © 19 96 DRAWN TO BS308	TYPE 122E INTRINSICALLY SAFE C.S.A. CONTROL DRAWING	T DISC	N.T.S. SCALE		
		22-08-96						M. ATKINSON	DATE APPROVED				FINISH	TITLE	96-058	DRG NO.
		12-3-96						DRAWN								
ISS	NO.	DATE	ISS	NO.	DATE	UNLESS OTHERWISE STATED										