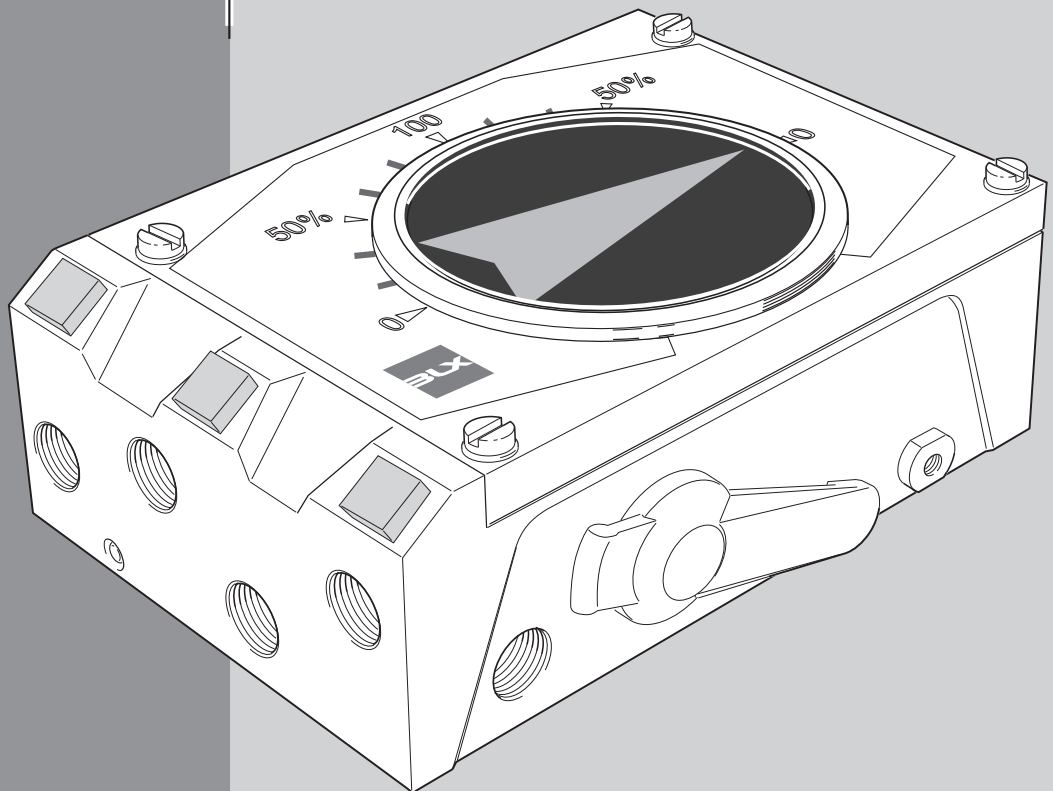




Made in Sweden

Valve Accessories & Controls. [www.blx.se](http://www.blx.se)

## V100 POSITIONER



**System &  
Control drawings**

**Intrinsically Safe Units**

**Cenelec/FM/CSA**

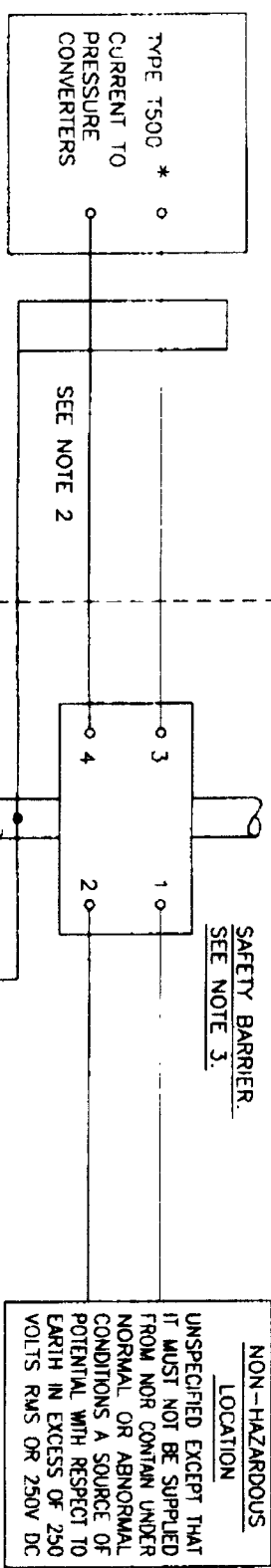


DO NOT SCALE DRAWING IF IN DOUBT ASK

HAZARDOUS LOCATION

NON-HAZARDOUS LOCATION

CLASS ID DIVISION 1 GROUPS A,B,C AND D



FOR TYPE T500 WITH T CODE	
T4 at 40°C T3B at 70°C T3A at 85°C	T6 at 55°C
Vmax = 30V dc Imax = 96mA dc Ci = 0 µF Li = 3.7mH	Vmax = 28V dc Imax = 46.7mA dc Ci = 0 µF Li = 3.7mH

FOR TYPE T500 WITH T CODE	
T4 at 40°C T3B at 70°C T3A at 85°C	T6 at 55°C
Voc or Vt ≥ 12V and ≤ 30V Isc or It ≤ 96mA Pmax ≤ 0.8W eg. MTL 728 P & F Z428/Ex	Voc or Vt ≥ 12V and ≤ 28V Isc or It ≤ 46.7mA Pmax ≤ 0.33W

REPRODUCTION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF WATSON SMITH LIMITED IS PROHIBITED

- 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 (Co) AND INDUCTANCE (Lo) 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 :-
  4. THE INSTALLATION INCLUDING THE BARRIER EARTHING ARRANGEMENTS MUST COMPLY WITH THE INSTALLATION REQUIREMENTS OF THE COUNTRY OF USE, ie ANS/ISA RP12.6 (INSTALLATION OF INTRINSICALLY SAFE SYSTEMS FOR HAZARDOUS (CLASSIFIED) LOCATIONS) AND THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL CODE INSTALLATION MUST BE IN ACCORDANCE WITH THE MANUFACTURERS GUIDELINES.
- \* THIS SYSTEM DRAWING IS ONLY APPLICABLE TO THE TYPE T500 WHEN IT IS INSTALLED AS INTRINSICALLY SAFE ONLY.

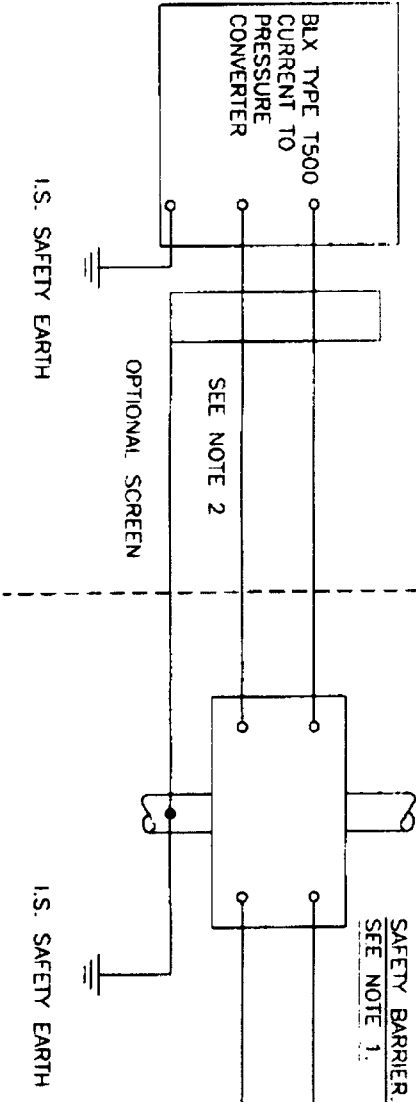
UNSPECIFIED TOLERANCES X ±0.5mm X.XX ±0.15mm X.X ±0.25mm ANGLES ±1° REMOVE ALL BURRS & SHARP EDGES TO 0.15 MAX SURFACE FINISH		UP-ISSUED BY C TRUETTONE	CHECKED APPROVED	DATE APPROVED	MATERIAL	IM1 WATSON SMITH LIMITED GROSS CHANGEBLDR ST. LEDS 156 2RD U.K. TEL: +44(0)113 245 7587 THIS DRAWING IS COPYRIGHTED COMPANY © 2002 ISSUED TO RELATE	TYPE (T500) CONTROL DRAWING (FM)	A3 ORIG. SIZE	N.T.S. SCALE
ISS NO.	DATE	ISS NO.	DATE	UNLESS OTHERWISE STATED	WHERE USED	DATE	FINISH	TITLE	ORG NO.
1	20-02-02	2				20-02-02			2002-014

DO NOT SCALE DRAWING. IF IN DOUBT ASK.

HAZARDOUS LOCATION

CLASS ID DIVISION : GROUPS A,B,C AND D

NON-HAZARDOUS LOCATION

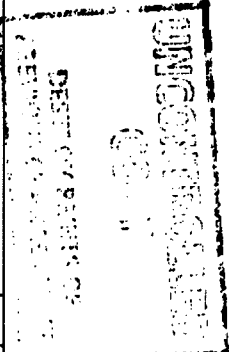


TEMPERATURE CODE	(MAX) AMBIENT
14A	85°C
16	55°C

**CERTIFIED PRODUCT**  
No modifications are permitted without the approval of the  
**CSA**

- 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 7428/Ex
  2. THE INSTALLATION INCLUDING THE BARRIER EARTHING ARRANGEMENTS MUST COMPLY WITH THE CANADIAN ELECTRICAL CODE PART I.
  3. THE DEVICE IS ALSO SUITABLE FOR CLASS II, GROUPS E,F,G & CLASS III HAZARDOUS LOCATIONS WHEN INSTALLED IN A SUITABLE DUST EXCLUDING ENCLOSURE.
  4. SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY & DIV 2 SUITABILITY.  
LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE ET DIV 2.

5. THE TYPE 1500 TERMINALS WHEN SUPPLIED AS FLYING LEADS MUST BE SUITABLY SECURED TO AN ENCLOSURE WITH AN APPROPRIATE FASTENER.



UNSPECIFIED TOLERANCES X ±0.5mm X.XX ±0.15mm X.XX ±0.25mm X.XX ±0.15mm REMOVE ALL BURRS & SHARP EDGES TO 0.15 MAX SURFACE FINISH <b>V</b>		WHERE USED	DATE APPROVED	FINISH	IMM WATSON SMITH LIMITED CROSS CHANNELER ST. LEEDS LS8 2NF U.K. TEL:+44(0)113 245 7507 DRAWN TO BS540	TYPE (1500) CONTROL DRAWING (CSA)	ORIG. SIZE 2002-015	N.T.S. SCALE
ISS NO.	DATE	ISS NO.	DATE	UNLESS OTHERWISE STATED	ISS NO.	DATE	ISS NO.	DATE
1	02-01-02	2			3		4	
5		6			7		8	
9		10			11		12	



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