

NOTES:

1. SAFE AREA APPARATUS IS NOT SPECIFIED EXCEPT THAT IT MUST NOT BE SUPPLIED FROM NOR CONTAIN IN NORMAL OR ABNORMAL CONDITIONS A SOURCE OF POTENTIAL WITH RESPECT TO EARTH IN EXCESS OF 250 VRMS OR 250 VDC.

2. THE TRANSMITTER ENTITY PARAMETERS ARE:

$V_{max} = 28V$
 $I_{max} = 93mA$
 $C_i = 18nF$
 $L_i = 0uH$
 $P_i = 0.66W$

CHOOSE A CSA CERTIFIED BARRIER WITH ENTITY PARAMETERS THAT SATISFY THE FOLLOWING CONDITIONS:

$V_{max} \geq V_{oc}$
 $I_{max} \geq I_{sc}$
 $C_i + C_{cable} \leq C_a$
 $L_i + L_{cable} \leq L_a$
 $P_i \geq P_o$

SUITABLE BARRIERS INCLUDE:

MTL 7087+

SUITABLE GALVANIC ISOLATION SAFETY BARRIERS INCLUDE:

STAHL 9303/11-22-11.

3. INSTALL IN ACCORDANCE WITH THE APPROPRIATE NATIONAL ELECTRICAL REQUIREMENTS AND PER THE BARRIER INSTRUCTIONS.

4. THE TRANSMITTER MUST BE INSTALLED IN A SUITABLE ENCLOSURE ACCEPTABLE TO THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.

⑤ THE TRANSMITTER PROBE ENTITY PARAMETERS ARE:

$V_{oc} = 5.36V$
 $I_{sc} = 3.61mA$
 $C_a = 512uF$
 $L_a = 1000uH$
 $P_o = 19.4mW$

THE SERIES 10,000 PROBE TOGETHER WITH ITS 7402 EXTENSION CABLE AND 8093 CONNECTOR INSULATOR MAY BE REPLACED BY ANY CSA CERTIFIED INTRINSICALLY SAFE PROBE THAT SATISFIES THE FOLLOWING CONDITIONS:

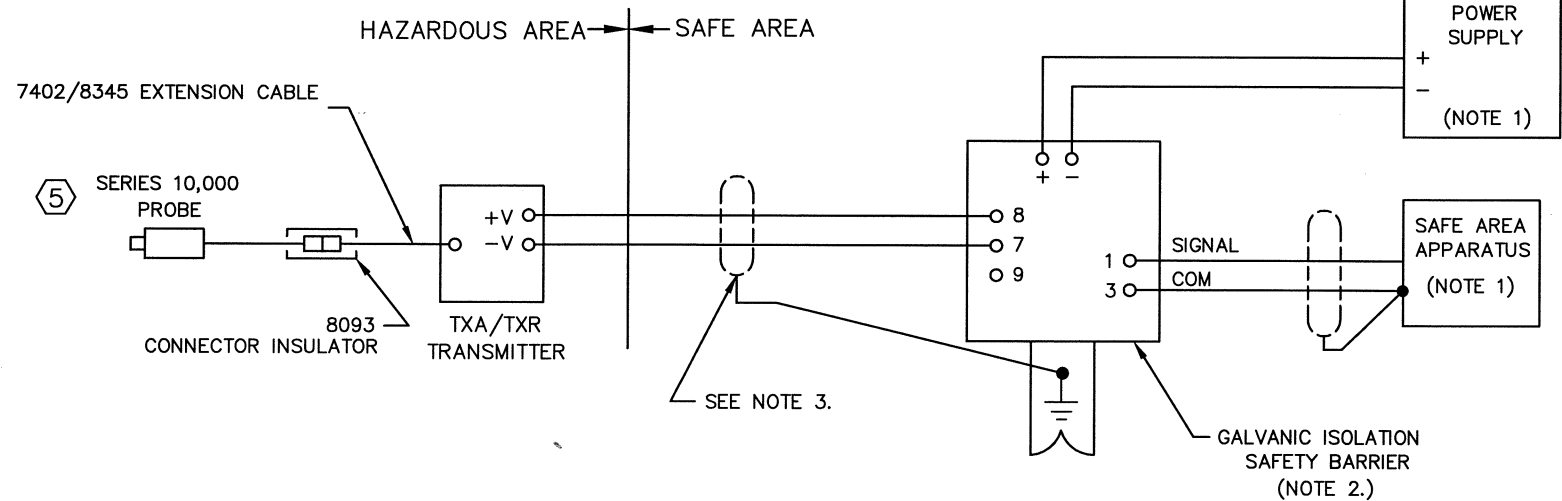
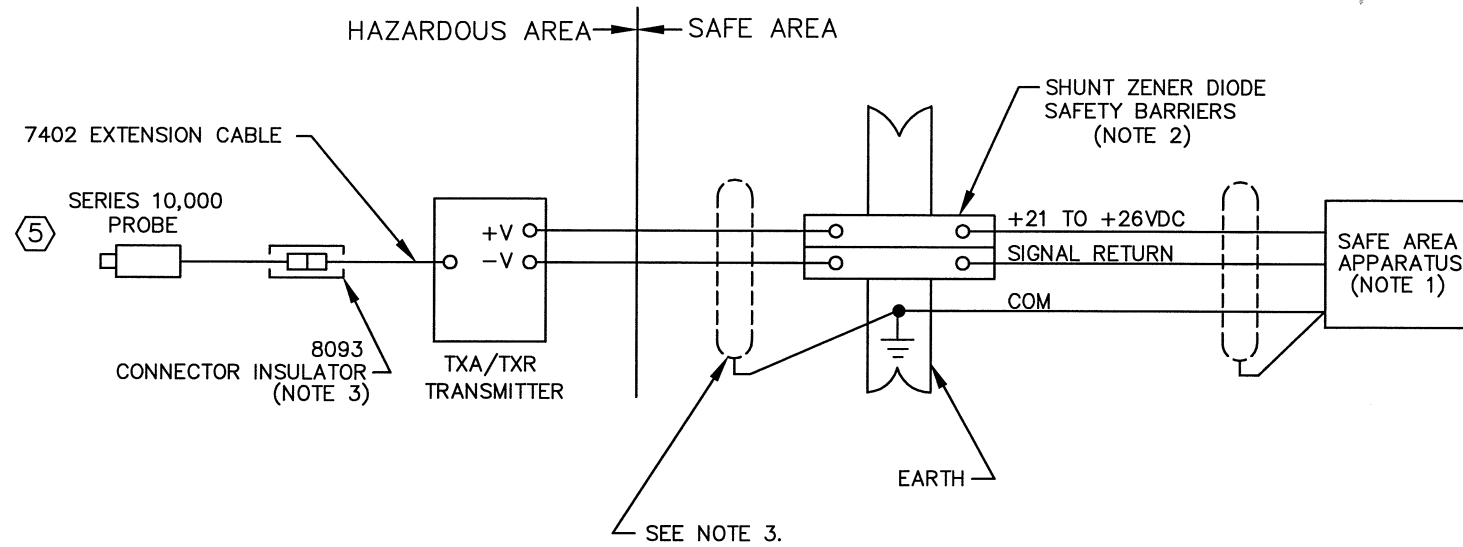
$V_{max} \geq V_{oc}$
 $I_{max} \geq I_{sc}$
 $C_i + C_{cable} \leq C_a$
 $L_i + L_{cable} \leq L_a$
 $P_i \geq P_o$

AGENCY APPROVED PRODUCT

DO NOT DEVIATE FROM DOCUMENTED CONSTRUCTION OR LISTED PARTS

REVISIONS					
REV	ERO	BY	DATE	APPROVED	
*	9383	RELEASE	AW	5-18-06	<i>DL</i>

INTRINSICALLY SAFE INSTALLATION
CSA



MATERIAL:	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. ALL CORNERS BROKEN TO .010 MIN RADIUS AND TOLERANCES ARE:	APPROVALS	DATE	HOUSTON TEXAS	
FINISH:	FRACTIONS: DECIMALS: ±1/64 .XX ±.01 .XXX ±.005	DRAWN BY: A. Wilson	11-29-05		
THIS DOCUMENT AND ALL INFORMATION HEREON IS THE PROPERTY OF METRIX INSTRUMENT CO. APPROVAL MUST BE OBTAINED BEFORE IT IS REPRODUCED OR INFORMATION HEREON IS ISSUED TO A THIRD PARTY. THIS DOCUMENT MUST BE RETURNED UPON REQUEST.		CHECKED BY: <i>[Signature]</i>	5-18-06		INSTALLATION (CSA) TXA/TXR TRANSMITTER
ANGLES: ±1° SURFACE FINISH 64		APPROVED BY: <i>[Signature]</i>	5/18/06		
		TXR TXR TXA TXA NEXT ASSY USED ON	DO NOT SCALE DRAWING	DRAWING NO. 9688	REV. *
		APPLICATION	SCALE 1:1	SHEET: 1 of 2	

NOTES:

1. THE MAXIMUM OUTPUT VOLTAGE FROM THE SAFE AREA APPARATUS MUST NOT EXCEED THE RATED VOLTAGE OF THE TRANSMITTER: 30VDC.
2. CIRCUIT IN HAZARDOUS AREA MUST BE CAPABLE OF WITHSTANDING A VOLTAGE TEST OF 500 VRMS TO EARTH OR TO THE FRAME OF THE APPARATUS. USE 8093 INSULATOR ON CONNECTOR BETWEEN PROBE AND EXTENSION CABLE.
3. THE INSTALLATION MUST COMPLY WITH THE APPROPRIATE NATIONAL INSTALLATION REQUIREMENTS.
4. THE TRANSMITTER MUST BE INSTALLED IN A SUITABLE ENCLOSURE ACCEPTABLE TO THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.

⑤ THE TRANSMITTER PROBE ENTITY PARAMETERS ARE:

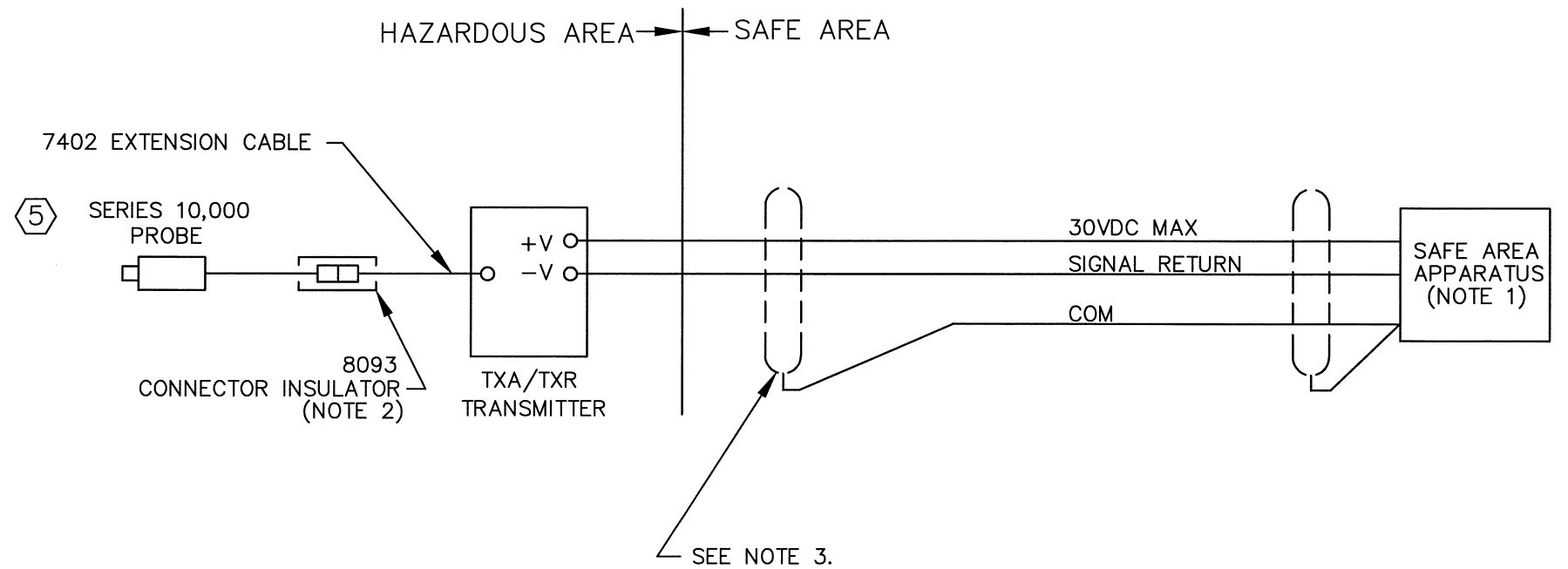
$V_{oc} = 5.36V$
 $I_{sc} = 3.61mA$
 $C_a = 512\mu F$
 $L_a = 1000\mu H$
 $P_o = 19.4mW$

THE SERIES 10,000 PROBE TOGETHER WITH ITS 7402 EXTENSION CABLE AND 8093 CONNECTOR INSULATOR MAY BE REPLACED BY ANY CSA CERTIFIED INTRINSICALLY SAFE OR NON-INCENDIVE PROBE THAT SATISFIES THE FOLLOWING CONDITIONS:

$V_{max} \geq V_{oc}$
 $I_{max} \geq I_{sc}$
 $C_i + C_{cable} \leq C_a$
 $L_i + L_{cable} \leq L_a$
 $P_i \geq P_o$

THE TRANSMITTER PROVIDES A NON-INCENDIVE CIRCUIT TO THE PROBE.

DIVISION 2 INSTALLATION
CANADIAN STANDARDS



INSTALLATION (CSA) TXA/TXR TRANSMITTER		
SIZE B	DRAWING NO. 9688	REV. *
SCALE: 1:1	SHEET: 2 of 2	