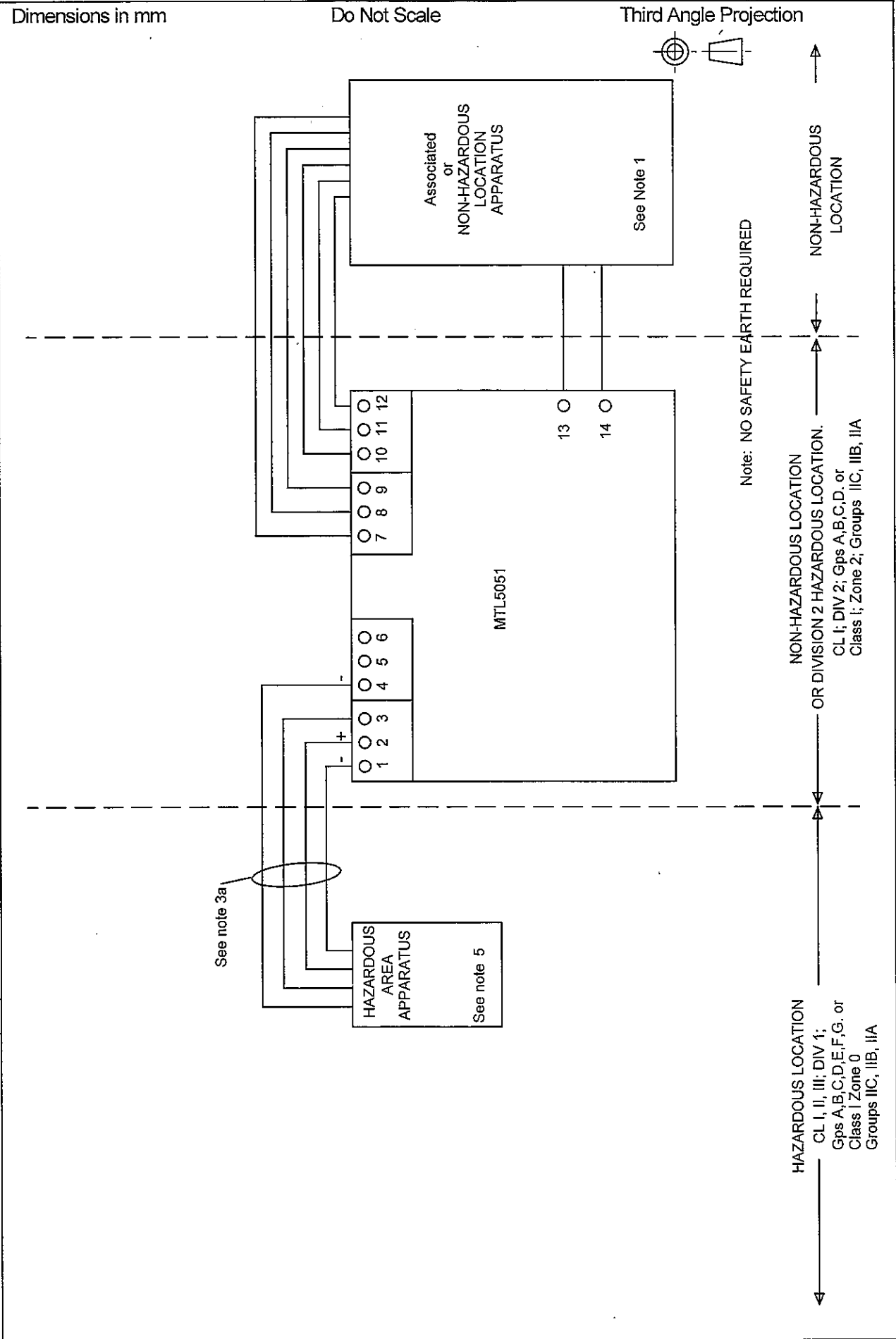
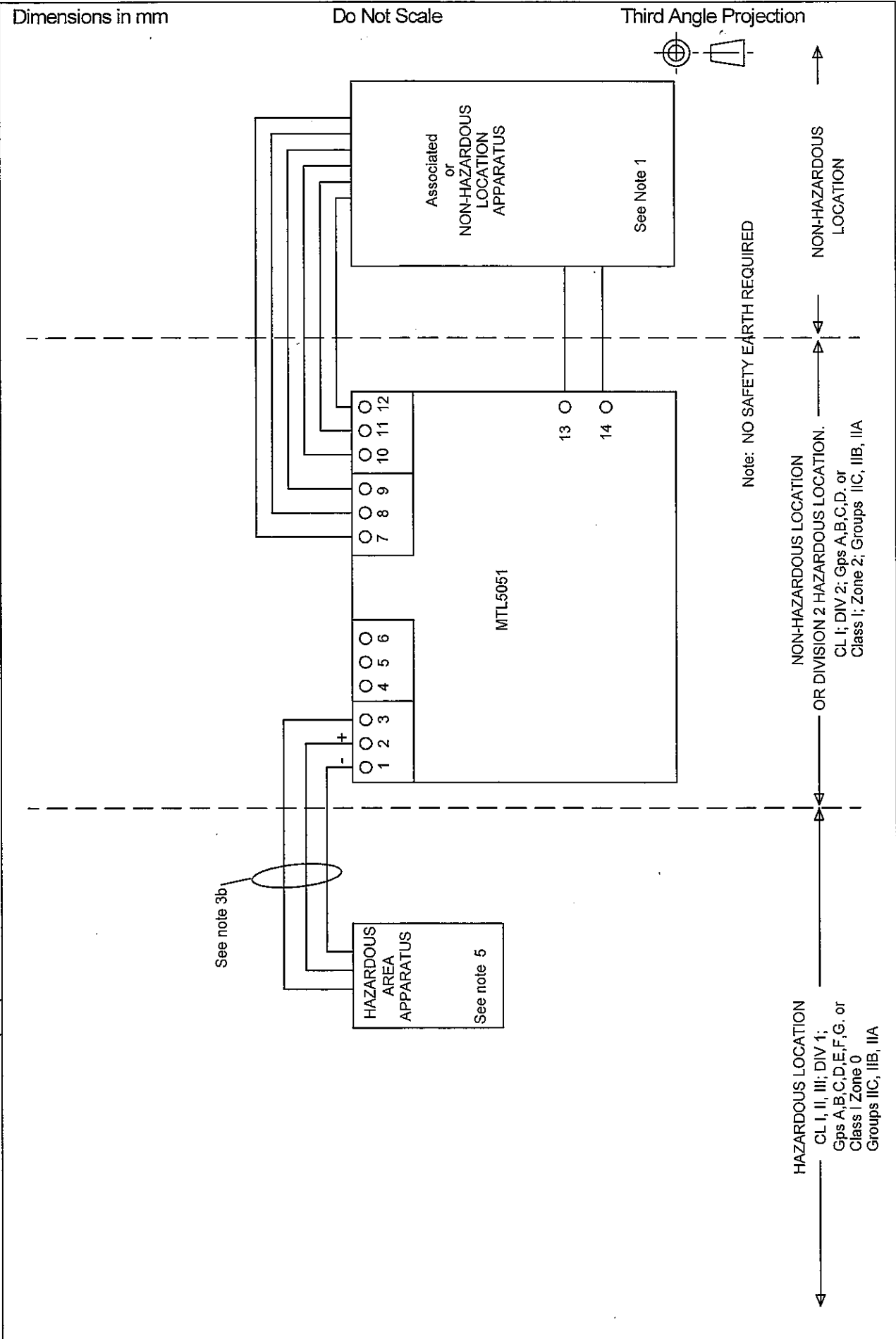


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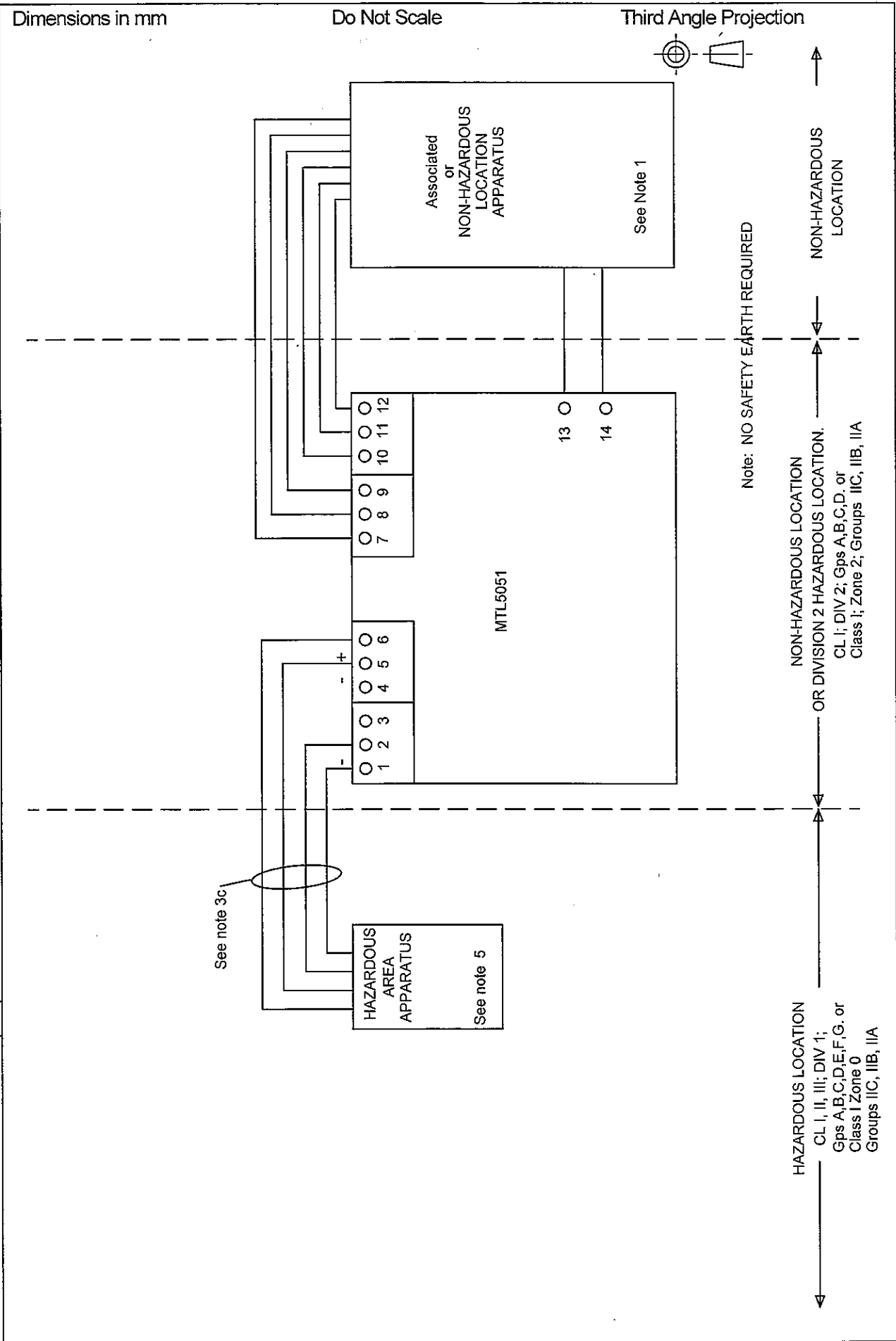
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Title MTL5051 IS SERIAL DATA COMMUNICATION ISOLATOR INSTALLATION DIAGRAM		Dr. No.	SCI-761

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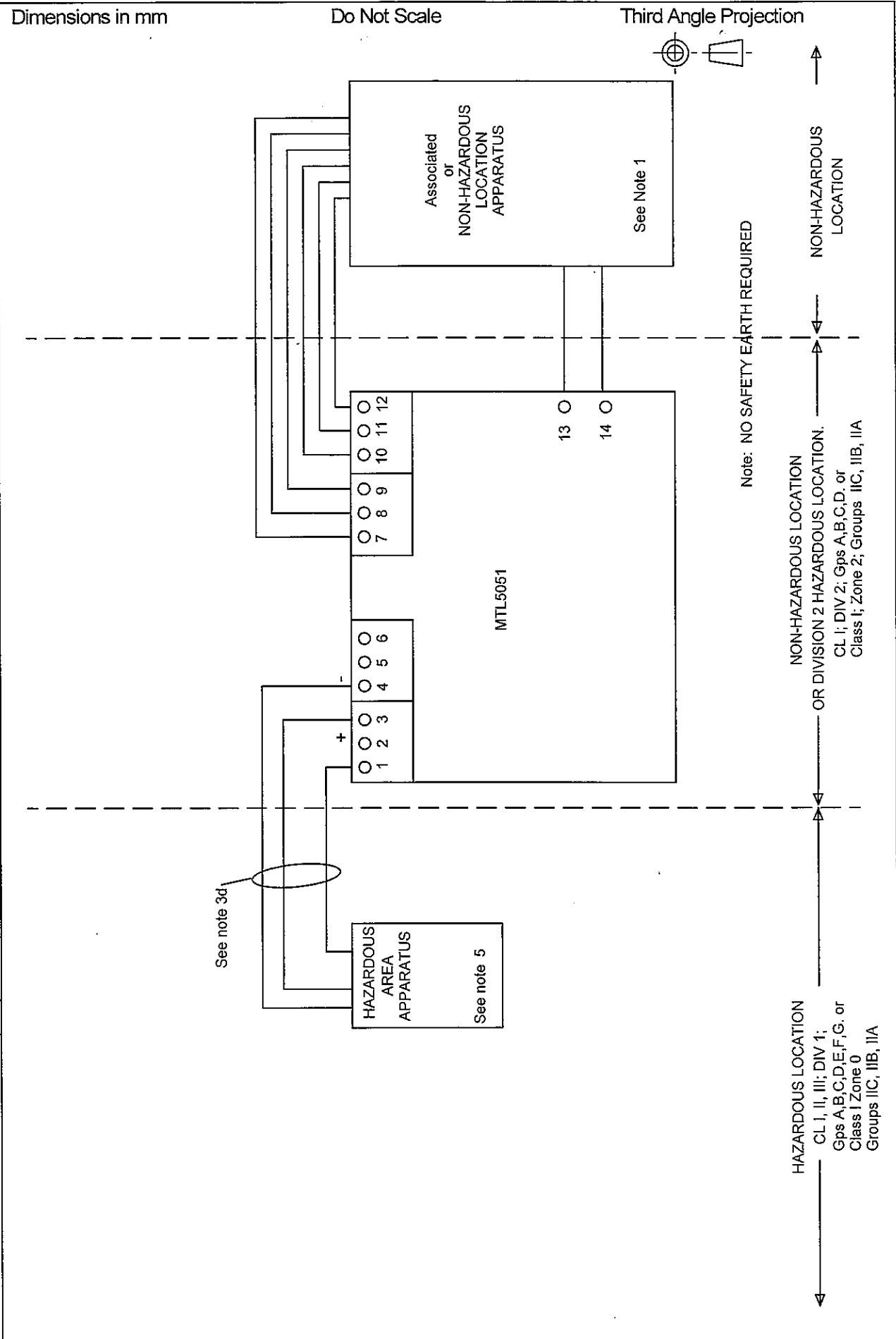
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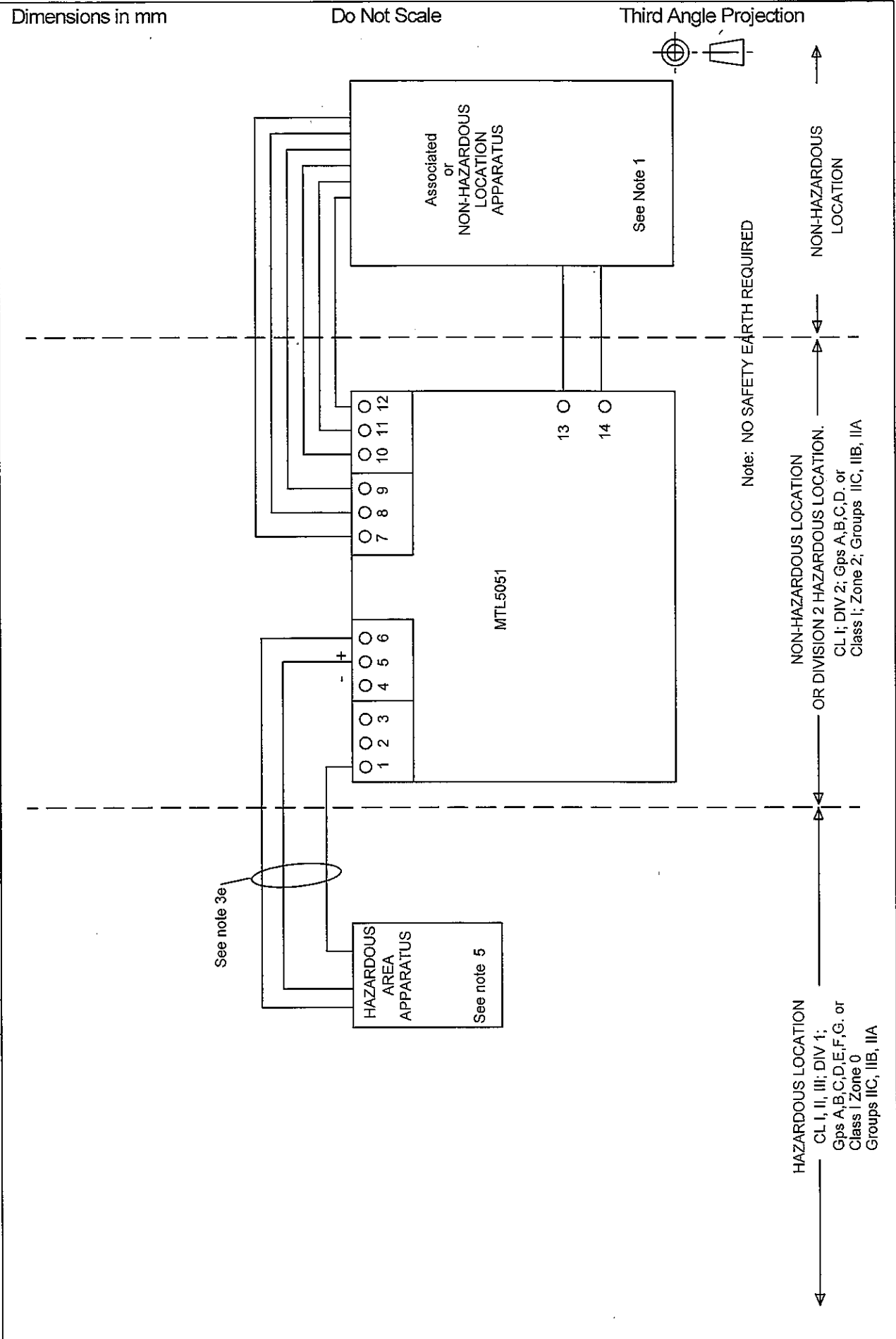
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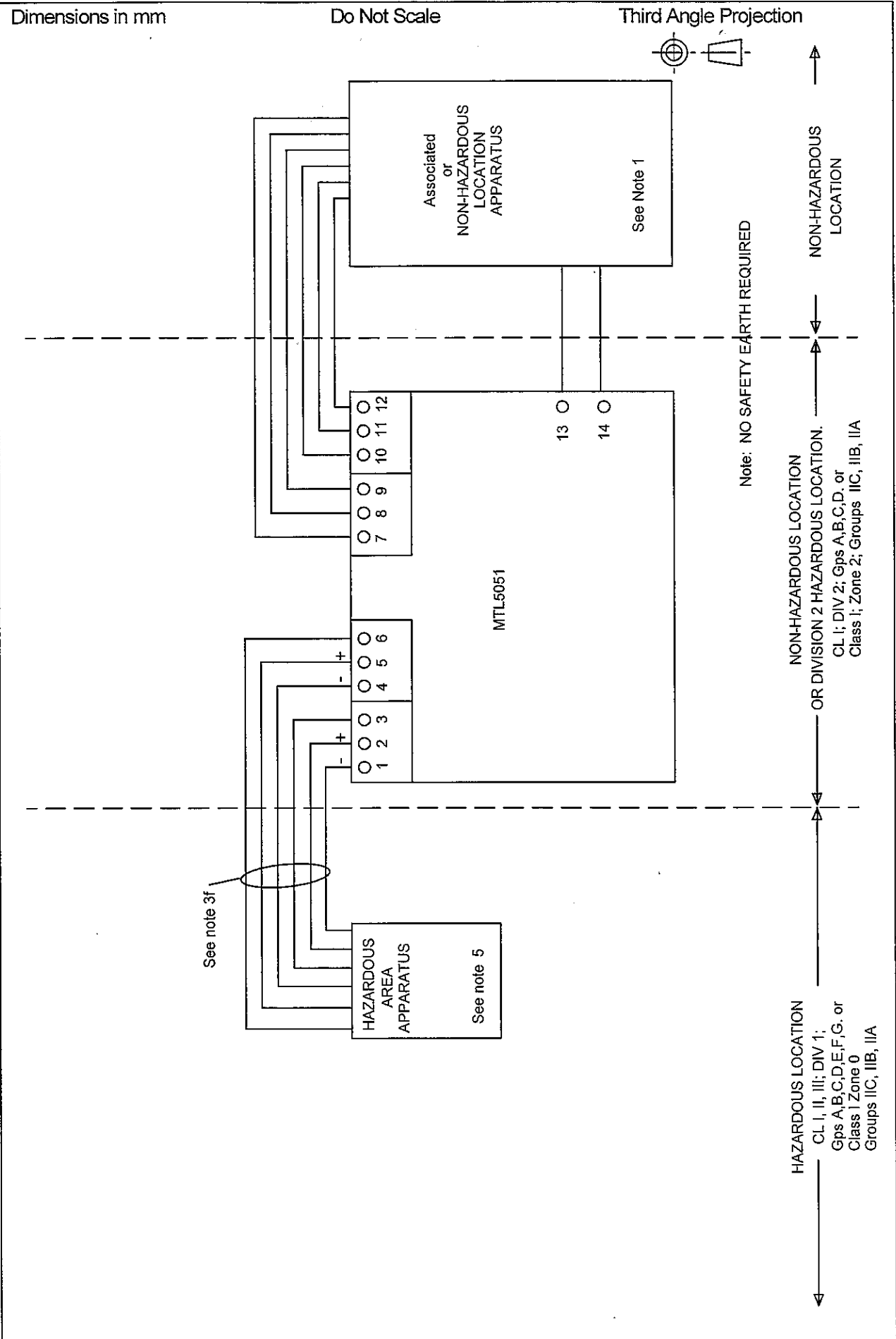
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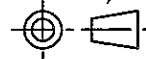
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Title	MTL5051 IS SERIAL DATA COMMUNICATION ISOLATOR INSTALLATION DIAGRAM		Drg. No. SCI-761

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Dimensions in mm

Do Not Scale

Third Angle Projection



NOTE 1.

Non-Hazardous Location Apparatus - unspecified except that it must not be supplied from nor contain under normal or abnormal conditions, a source of potential with respect to ground in excess of 60V rms or 60V dc.

NOTE 2.

The Installation in general should comply with the relevant requirements of the Canadian Electrical Code, Part 1, in particular the recommendations of Appendix F.

NOTE 3.

The MTL5051 may be installed as part of a system containing Intrinsically Safe Apparatus which has CSA Entity certification, in which case the parameters listed below apply;

a), Terminal 2, 3, 4 Wrt 1 $U_o \leq 14V$, $I_o \leq 192mA$, $P_o \leq 0.8W$

Groups IIC (A and B)	$C_o \leq 0.73 \mu F$	$L_o \leq 0.80mH$
Groups IIB (C and E)	$C_o \leq 2.93 \mu F$	$L_o \leq 2.41 mH$
Groups IIA (D,F and G)	$C_o \leq 7.80 \mu F$	$L_o \leq 6.44 mH$

b), Terminal 2, 3 Wrt 1 $U_o \leq 14V$, $I_o \leq 108mA$ $P_o \leq 0.46W$

Groups IIC (A and B)	$C_o \leq 0.73 \mu F$	$L_o \leq 3.07mH$
Groups IIB (C and E)	$C_o \leq 2.93 \mu F$	$L_o \leq 12.65 mH$
Groups IIA (D,F and G)	$C_o \leq 7.80 \mu F$	$L_o \leq 24.51 mH$

c), Terminal 2, 5, 6 Wrt 1 $U_o \leq 20V$, $I_o \leq 139mA$ $P_o \leq 0.46W$

Groups IIC (A and B)	$C_o \leq 0.22 \mu F$	$L_o \leq 1.77mH$
Groups IIB (C and E)	$C_o \leq 1.01 \mu F$	$L_o \leq 7.79 mH$
Groups IIA (D,F and G)	$C_o \leq 2.70 \mu F$	$L_o \leq 14.79 mH$

d), Terminal 3, 4 Wrt 1 $U_o \leq 14V$, $I_o \leq 88mA$ $P_o \leq 0.35W$

Groups IIC (A and B)	$C_o \leq 0.73 \mu F$	$L_o \leq 4.71mH$
Groups IIB (C and E)	$C_o \leq 2.93 \mu F$	$L_o \leq 18.64 mH$
Groups IIA (D,F and G)	$C_o \leq 7.80 \mu F$	$L_o \leq 36.93 mH$

e), Terminal 5, 6 Wrt 1 $U_o \leq 15V$ $I_o \leq 35mA$ $P_o \leq 0.07W$

Groups IIC (A and B)	$C_o \leq 0.58 \mu F$	$L_o \leq 28.29mH$
Groups IIB (C and E)	$C_o \leq 2.35 \mu F$	$L_o \leq 106.72 mH$
Groups IIA (D,F and G)	$C_o \leq 6.26 \mu F$	$L_o \leq 217.55 mH$

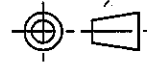
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Certifying Authority:	CSA	Sheet	7 of 8
Title	MTL5051 IS SERIAL DATA COMMUNICATION ISOLATOR INSTALLATION DIAGRAM		Drg. No. SCI-761

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Dimensions in mm

Do Not Scale

Third Angle Projection



f), Terminal 2,3,4,5,6 Wrt 1 $U_o \leq 20V$, $I_o \leq 227mA$ $P_o \leq 0.81W$

Groups IIC (A and B)	$C_o \leq 0.22 \mu F$	$L_o \leq 0.61mH$
Groups IIB (C and E)	$C_o \leq 1.01 \mu F$	$L_o \leq 1.83 mH$
Groups IIA (D,F and G)	$C_o \leq 2.70 \mu F$	$L_o \leq 4.89 mH$

g) The parameters of the complete installation must meet the following criteria :-
 $U_o \leq V_{max}$ or U_i , $I_o \leq I_{max}$ or I_i
 $C_o \geq C_i + C_{cable}$, $L_o \geq L_i + L_{cable}$.

NOTE 4.

IF ENTITY-CERTIFIED INTRINSICALLY SAFE APPARATUS IS NOT AVAILABLE, then the installation must be made in accordance with the details given in Notes 5, 6 and 7 below.

NOTE 5.

Hazardous Location Apparatus - switches, thermocouples or non-inductive resistance devices, or CSA - Certified Apparatus when connected in accordance with the manufacturer's installation instructions.

NOTE 6.

- a), For intrinsic safety purposes, terminals 1 to 4 of the MTL5051 are considered to be a source of power with a maximum open circuit voltage of 14V, a minimum output resistance of 73Ω and a maximum short circuit current of 192mA.
- b). For intrinsic safety purposes, terminals 1 to 3 of the MTL5051 are considered to be a source of power with a maximum open circuit voltage of 14V, a minimum output resistance of 130Ω and a maximum short circuit current of 108mA.
- c), For intrinsic safety purposes, terminals 1,2,5 & 6 of the MTL5051 are considered to be a source of power with a maximum open circuit voltage of 20V, a minimum output resistance of 144Ω and a maximum short circuit current of 139mA.
- d), For intrinsic safety purposes, terminals 1,3 & 4 of the MTL5051 are considered to be a source of power with a maximum open circuit voltage of 14V, a minimum output resistance of 159Ω and a maximum short circuit current of 88mA.
- e), For intrinsic safety purposes, terminals 1,5 & 6 of the MTL5051 are considered to be a source of power with a maximum open circuit voltage of 15V, a minimum output resistance of 428Ω and a maximum short circuit current of 35mA.
- f), For intrinsic safety purposes, terminals 1 & 6 of the MTL5051 are considered to be a source of power with a maximum open circuit voltage of 20V, a minimum output resistance of 88Ω and a maximum short circuit current of 227mA.

NOTE 7.

The parameters of load/cable connected to terminals 1 to 6 must comply with the recommended values given in Section F6, Appendix F, Canadian Electrical Code, Part 1.

NOTE 8.

WARNING : Substitution of components may impair intrinsic safety.

AVERTISSEMENT : La substitution de composants peut compromettre la securite intrinseque.

NOTE 9.

The MTL5051 is "ASSOCIATED APPARATUS"/"APPAREILLAGE CONNEXE"[Ex ia] and when mounted in the appropriate enclosure is suitable for installation in Class 1, Division 2, Groups A, B, C and D Hazardous Locations.

NOTE 10.

WARNING : EXPLOSION HAZARD - Substitution of components may impair suitability for Class 1, Division 2.

WARNING : EXPLOSION HAZARD - Do not disconnect equipment unless power has been switched off or the area is known to be Non-Hazardous.

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