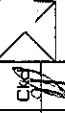

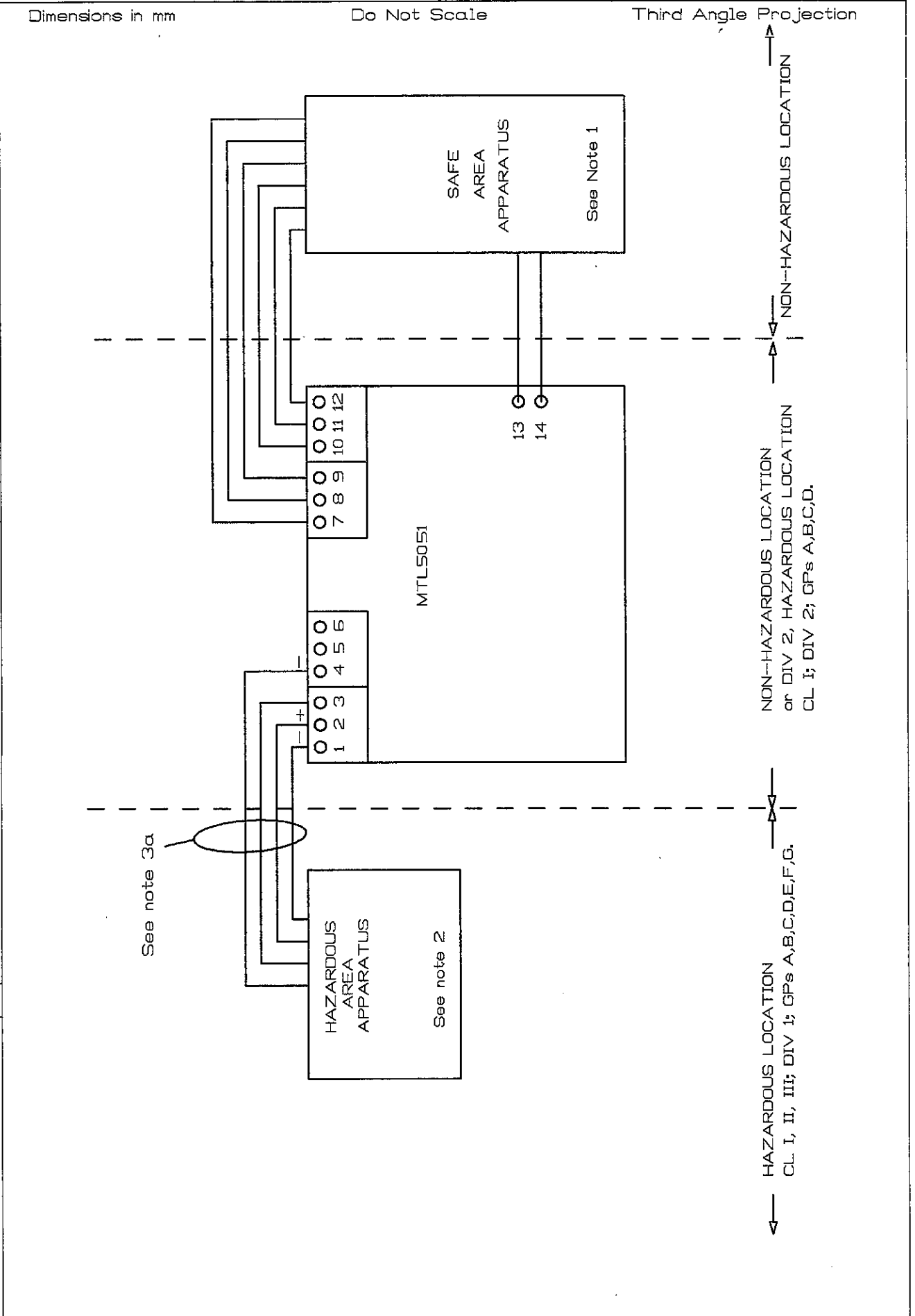
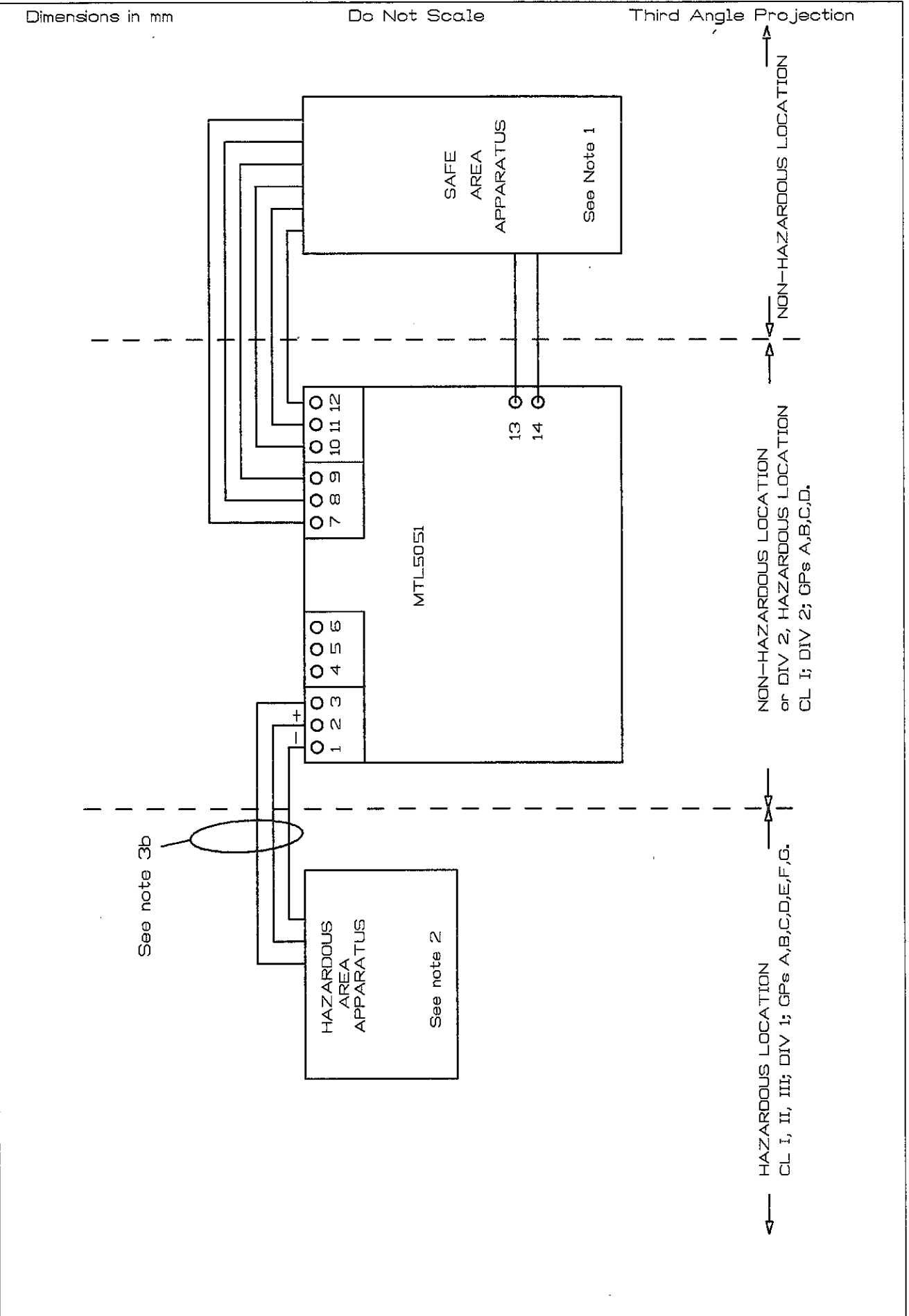


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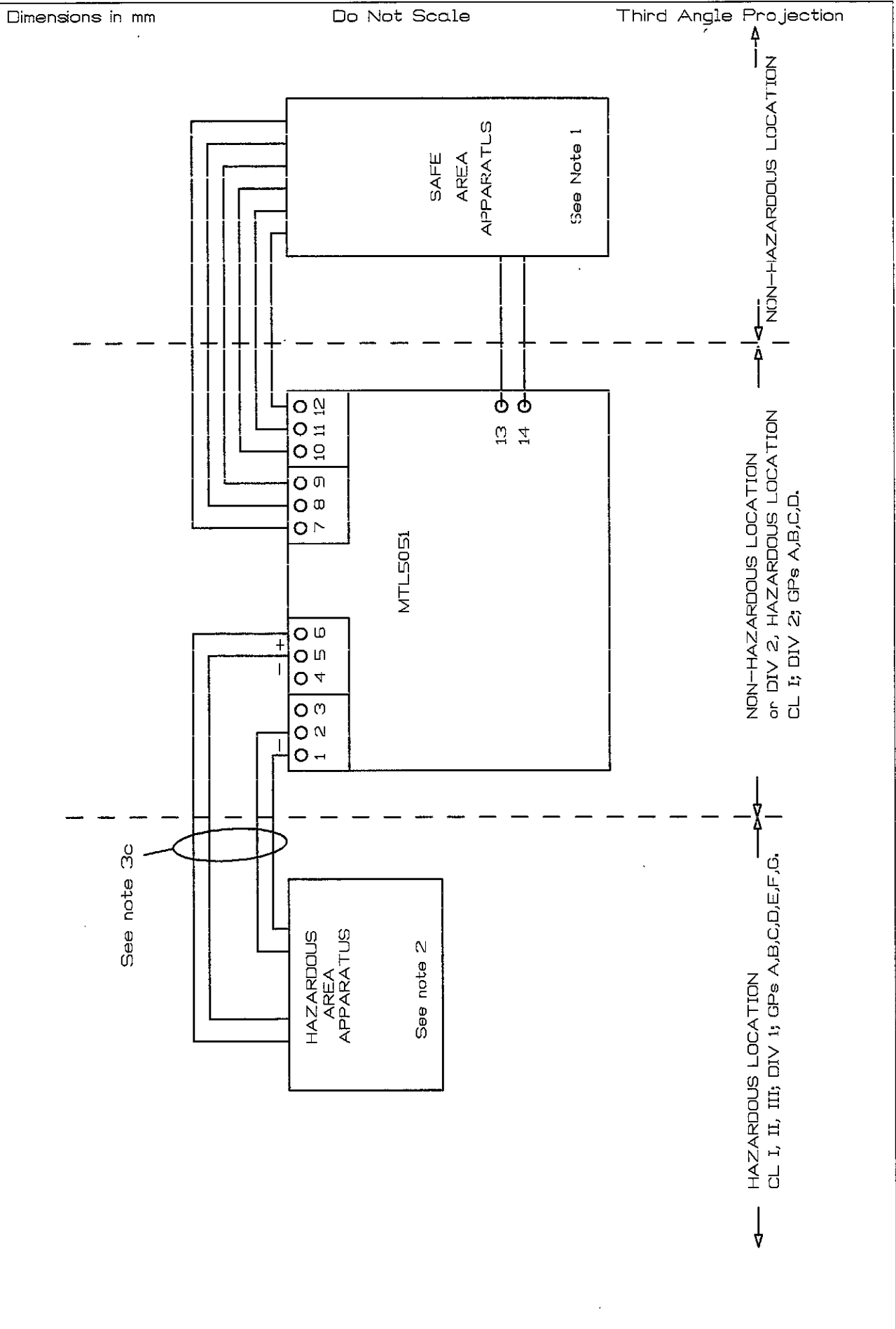
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Certifying Authority: Factory Mutual		Sheet	1 of 8
Title MTL5051 IS SERIAL DATA COMMUNICATION ISOLATOR Installation Diagram		Drg. No.	SCI-759

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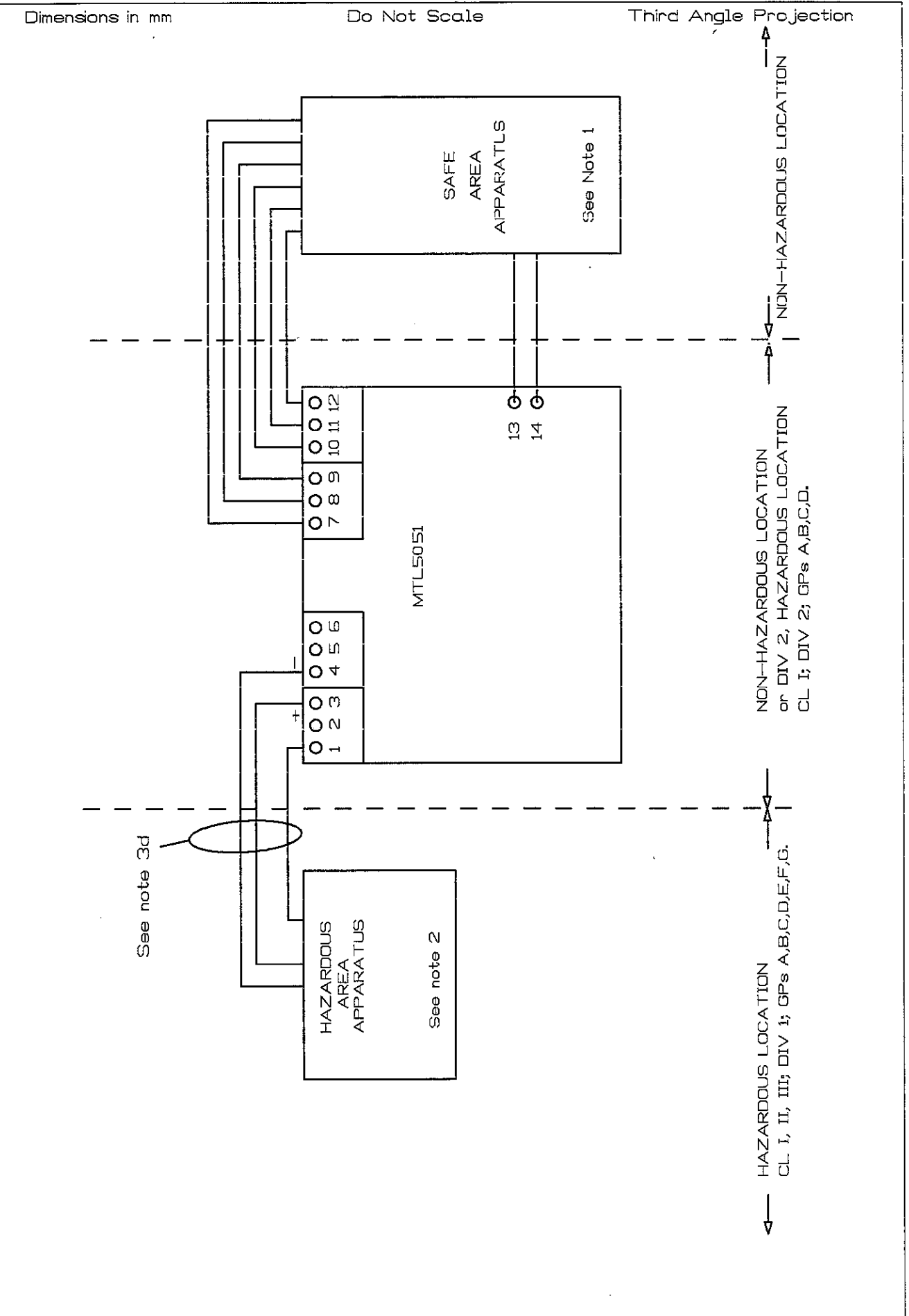
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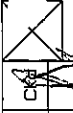
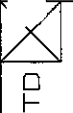


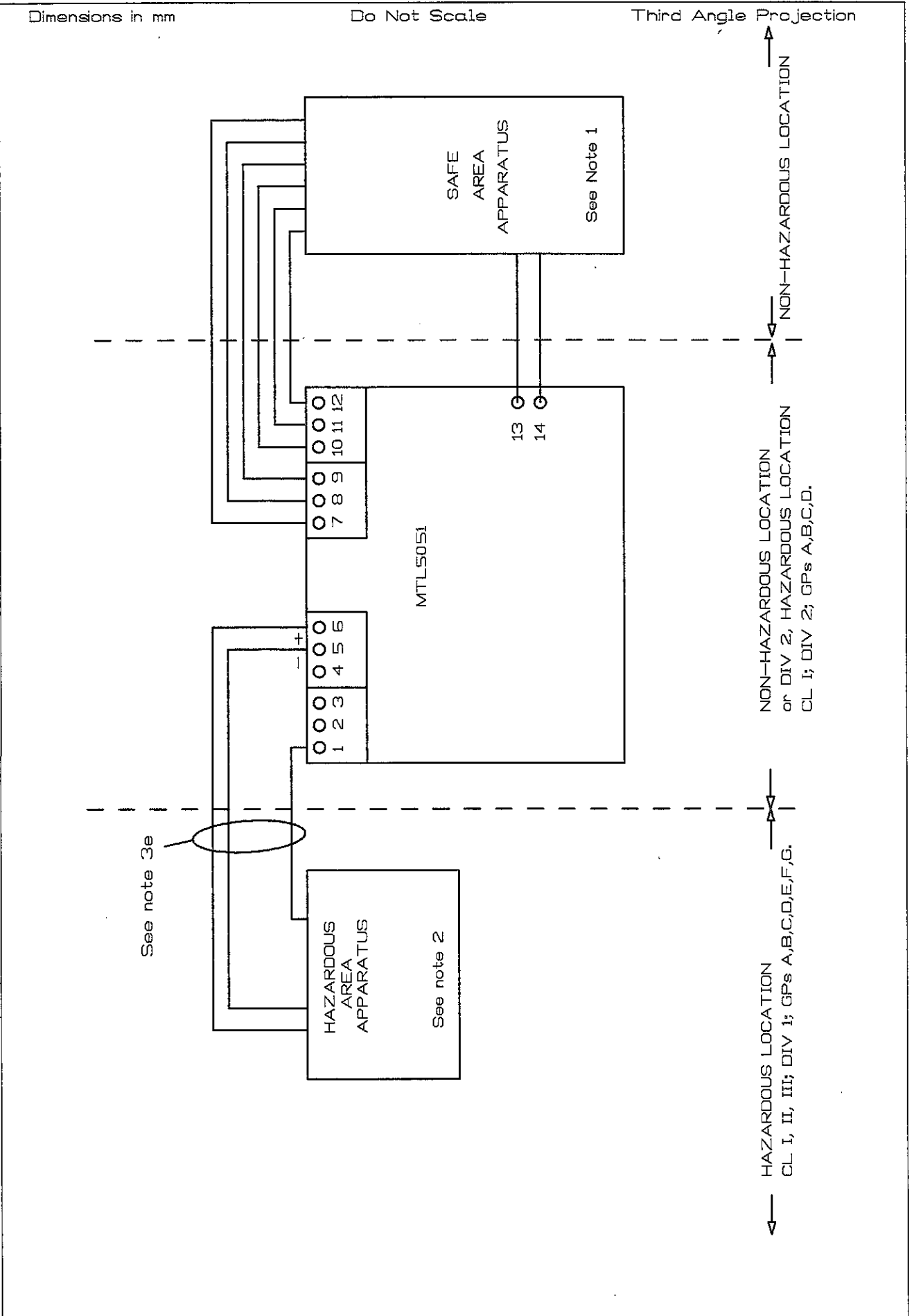
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Certifying Authority: Factory Mutual	Sheet	3 of 8
Title MTL5051 IS SERIAL DATA COMMUNICATION ISOLATOR Installation Diagram	Drg. No.	SCI-759

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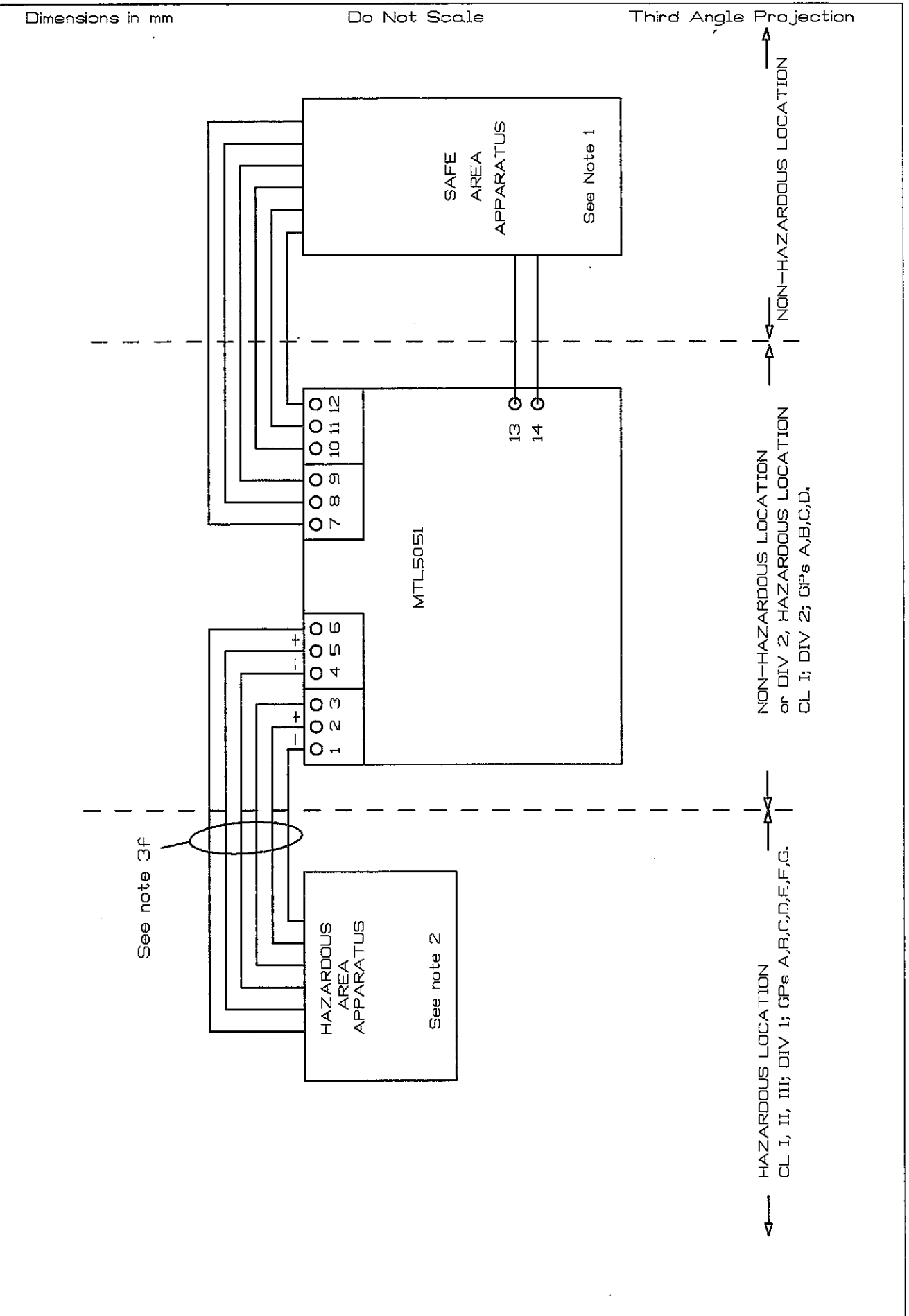
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SCI-759		6 of 8		MTL5051 IS SERIAL DATA COMMUNICATION ISOLATOR Installation Diagram		MTL5051 IS SERIAL DATA COMMUNICATION ISOLATOR Installation Diagram	
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Ckd		Dimensions in mm	Do Not Scale	Third Angle Projection																																				
Modification		<p><u>Note 1</u></p> <p>The Non-Hazardous Location (for Control Room) equipment must not generate or use more than 250 volts r.m.s</p> <p><u>Note 2</u></p> <p>The Hazardous Location equipment may be any FM approved equipment listed.</p> <p><u>Note 3</u></p> <p>Entity Concept Parameters for each channel of the MTL5051 are as follows:-</p> <p>(a) Terminals 2,3,4 Wrt 1 $V_t \leq 14V$ $I_t \leq 192mA$ $P_o = 0.8W$</p> <table border="1" style="width:100%; border-collapse: collapse; margin: 10px 0;"> <tr> <td style="width:33%;">Groups A and B</td> <td style="width:33%;">$C_a \leq 0.73\mu F$</td> <td style="width:33%;">$L_a \leq 0.80mH$</td> </tr> <tr> <td>Groups C and E</td> <td>$C_a \leq 2.93\mu F$</td> <td>$L_a \leq 2.41mH$</td> </tr> <tr> <td>Groups D,F and G</td> <td>$C_a \leq 7.80\mu F$</td> <td>$L_a \leq 6.44mH$</td> </tr> </table> <p>(b) Terminals 2,3 Wrt 1 $V_t \leq 14V$ $I_t \leq 108mA$ $P_o = 0.46W$</p> <table border="1" style="width:100%; border-collapse: collapse; margin: 10px 0;"> <tr> <td style="width:33%;">Groups A and B</td> <td style="width:33%;">$C_a \leq 0.73\mu F$</td> <td style="width:33%;">$L_a \leq 3.07mH$</td> </tr> <tr> <td>Groups C and E</td> <td>$C_a \leq 2.93\mu F$</td> <td>$L_a \leq 12.65mH$</td> </tr> <tr> <td>Groups D,F and G</td> <td>$C_a \leq 7.80\mu F$</td> <td>$L_a \leq 24.51mH$</td> </tr> </table> <p>(c) Terminals 2,5,6 Wrt 1 $V_t \leq 20V$ $I_t \leq 139mA$ $P_o = 0.46W$</p> <table border="1" style="width:100%; border-collapse: collapse; margin: 10px 0;"> <tr> <td style="width:33%;">Groups A and B</td> <td style="width:33%;">$C_a \leq 0.22\mu F$</td> <td style="width:33%;">$L_a \leq 1.77mH$</td> </tr> <tr> <td>Groups C and E</td> <td>$C_a \leq 1.01\mu F$</td> <td>$L_a \leq 7.79mH$</td> </tr> <tr> <td>Groups D,F and G</td> <td>$C_a \leq 2.70\mu F$</td> <td>$L_a \leq 14.79mH$</td> </tr> </table> <p>(d) Terminals 3,4 Wrt 1 $V_t \leq 14V$ $I_t \leq 88mA$ $P_o = 0.35W$</p> <table border="1" style="width:100%; border-collapse: collapse; margin: 10px 0;"> <tr> <td style="width:33%;">Groups A and B</td> <td style="width:33%;">$C_a \leq 0.73\mu F$</td> <td style="width:33%;">$L_a \leq 4.71mH$</td> </tr> <tr> <td>Groups C and E</td> <td>$C_a \leq 2.93\mu F$</td> <td>$L_a \leq 18.64mH$</td> </tr> <tr> <td>Groups D,F and G</td> <td>$C_a \leq 7.80\mu F$</td> <td>$L_a \leq 36.93mH$</td> </tr> </table>			Groups A and B	$C_a \leq 0.73\mu F$	$L_a \leq 0.80mH$	Groups C and E	$C_a \leq 2.93\mu F$	$L_a \leq 2.41mH$	Groups D,F and G	$C_a \leq 7.80\mu F$	$L_a \leq 6.44mH$	Groups A and B	$C_a \leq 0.73\mu F$	$L_a \leq 3.07mH$	Groups C and E	$C_a \leq 2.93\mu F$	$L_a \leq 12.65mH$	Groups D,F and G	$C_a \leq 7.80\mu F$	$L_a \leq 24.51mH$	Groups A and B	$C_a \leq 0.22\mu F$	$L_a \leq 1.77mH$	Groups C and E	$C_a \leq 1.01\mu F$	$L_a \leq 7.79mH$	Groups D,F and G	$C_a \leq 2.70\mu F$	$L_a \leq 14.79mH$	Groups A and B	$C_a \leq 0.73\mu F$	$L_a \leq 4.71mH$	Groups C and E	$C_a \leq 2.93\mu F$	$L_a \leq 18.64mH$	Groups D,F and G	$C_a \leq 7.80\mu F$	$L_a \leq 36.93mH$
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(e) Terminals 5,6 Wrt 1 $V_t \leq 15V$ $I_t \leq 35mA$ $P_o = 0.07W$

Groups A and B	$C_a \leq 0.58\mu F$	$L_a \leq 28.29mH$
Groups C and E	$C_a \leq 2.35\mu F$	$L_a \leq 106.72mH$
Groups D,F and G	$C_a \leq 6.26\mu F$	$L_a \leq 217.55mH$

(f) Terminals 2,3,4,5,6 Wrt 1 $V_t \leq 20V$ $I_t \leq 227mA$ $P_o = 0.81W$

Groups A and B	$C_a \leq 0.22\mu F$	$L_a \leq 0.61mH$
Groups C and E	$C_a \leq 1.01\mu F$	$L_a \leq 1.83mH$
Groups D,F and G	$C_a \leq 2.70\mu F$	$L_a \leq 4.89mH$

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Note 4

For guidance on the installation see ANSI/ISA RP12.6

Note 5

The MTL5051 is Associated Apparatus and when mounted in the appropriate enclosure (See notes 6 and 7) is suitable for installation in the following area:-

- Non-Hazardous Locations
- Class I, Division 2, Groups A,B,C and D, Hazardous Locations
- Class II, Division 2, Groups F and G Hazardous Locations
- Class III, Division 2, Hazardous Locations

Note 6

Associated Apparatus must be installed in accordance with the National Electrical Code in an enclosure meeting the requirements of ANSI/ISA-S82.

Note 7

Use FRMC Approved or NRTL Listed dust-ignition proof enclosure(s) Appropriate for the environmental protection in class II, Division 2, Groups F and G; Class III, Division 2 Hazardous Locations.

Note 8

When the MTL5051 is installed in Division 2 Hazardous locations, a warning label must be prominently affixed near the unit(s) which warns that the MTL5051 must not be removed or inserted unless the area is known to be non-hazardous.

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