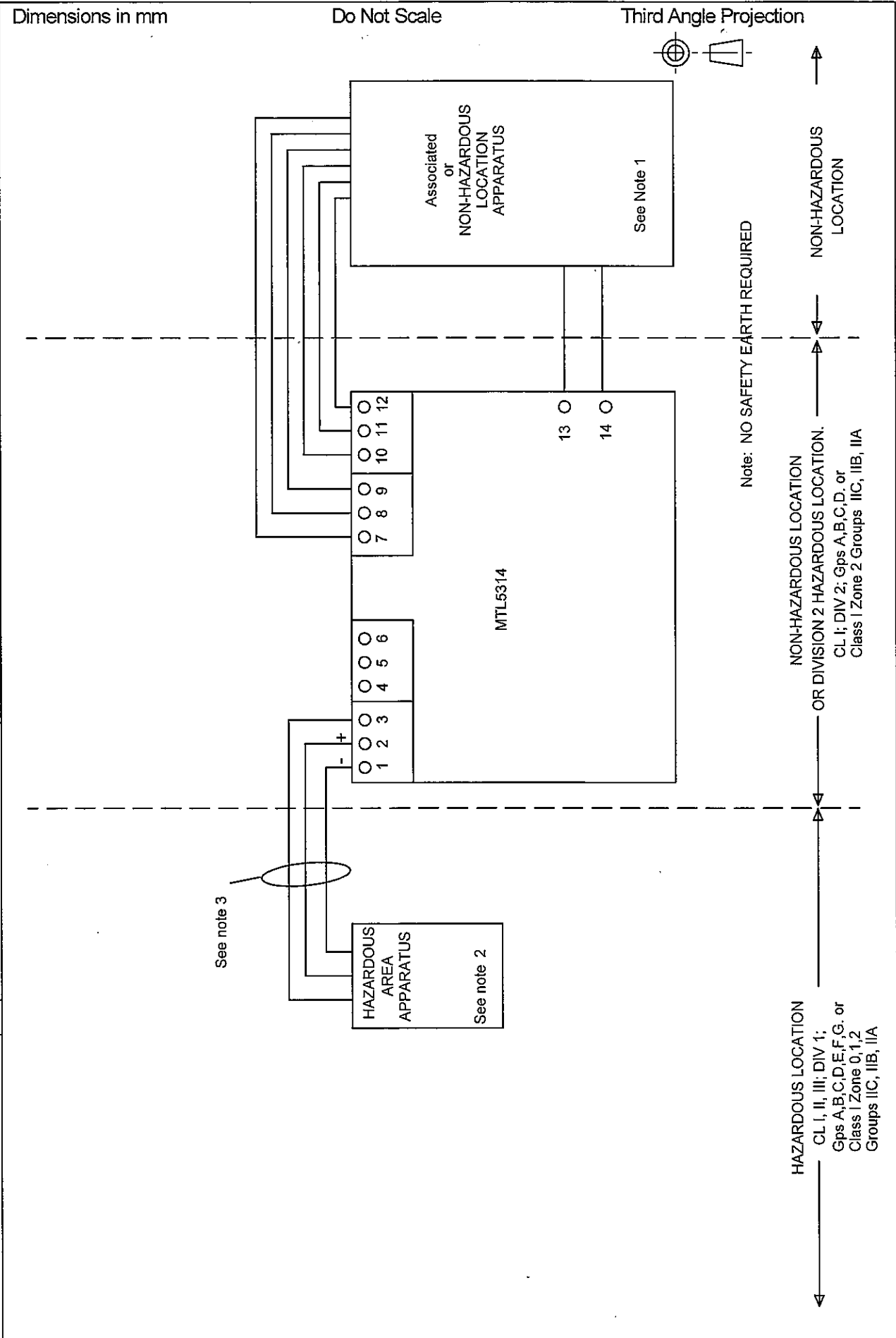
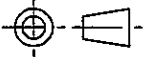


Iss	Date Dm	Modification	Chd
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Iss	Date Dm	Modification	Chd
MEASUREMENT TECHNOLOGY LTD Luton, England Copyright Reserved - Written Permission to Copy Should be Obtained			



System Certificate No: N/A		Scale: N/A
Certifying Authority: Factory Mutual		Sheet 1 of 2
Title: MTL5314 4/20mA Trip Amplifier for 2- or 3- Wire Transmitters		Drg. No. SCI-799

Chd		Dimensions in mm	Do Not Scale	Third Angle Projection											
Modification		<p><u>Note 1</u></p> <p>The Non-Hazardous Location (or 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 switches or thermocouples. Other apparatus such as RTD's, LED's and non-inductive resistors may also be used if the autoignition temperatures of the hazardous location is greater than T4 (275°F or 135°C). Certified devices with the correct Entity Concept parameters may also be used.</p> <p><u>Note 3</u></p> <p>Entity Parameters for terminals 1, 2 & 3 of the MTL5314 are as follows :-</p> <p style="text-align:center;">$V_t (U_o) = 28V, I_t (I_o) = 93mA, P_o = 0.65W$</p> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width:33%;">Groups A and B (IIC)</td> <td style="width:16.5%;">Ca (Co) = 0.083 μF</td> <td style="width:16.5%;">La (Lo) = 4.3 mH</td> <td style="width:34%;">La / Ra (Lo / Ro) = 56 μH / Ω</td> </tr> <tr> <td>Groups C and E (IIB)</td> <td>Ca (Co) = 0.650 μF</td> <td>La (Lo) = 17.7 mH</td> <td>La / Ra (Lo / Ro) = 210 μH / Ω</td> </tr> <tr> <td>Groups D,F and G (IIA)</td> <td>Ca (Co) = 2.15 μF</td> <td>La (Lo) = 36.0 mH</td> <td>La / Ra (Lo / Ro) = 444 μH / Ω</td> </tr> </table> <p><u>Note 4</u></p> <p>For guidance on the installation see ANSI/ISA RP12.6</p> <p><u>Note 5</u></p> <p>The MTL5314 is Associated Apparatus and when mounted in the appropriate enclosure (See notes 6 and 7) is suitable for installation in the following area:-</p> <p>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 Class I, Zone 2, Groups IIC, IIB, IIA, Hazardous Locations</p> <p><u>Note 6</u></p> <p>Associated Apparatus must be installed in accordance with the National Electrical Code in an enclosure meeting the requirements of ANSI/ISA-S82.</p> <p><u>Note 7</u></p> <p>Use FMR 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.</p> <p><u>Note 8</u></p> <p>When the MTL5314 is installed in Division 2 Hazardous locations, a warning label must be prominently affixed near the unit(s) which warns that the connectors of the MTL5314 must not be removed or inserted unless the area is known to be non-hazardous.</p>	Groups A and B (IIC)	Ca (Co) = 0.083 μ F	La (Lo) = 4.3 mH	La / Ra (Lo / Ro) = 56 μ H / Ω	Groups C and E (IIB)	Ca (Co) = 0.650 μ F	La (Lo) = 17.7 mH	La / Ra (Lo / Ro) = 210 μ H / Ω	Groups D,F and G (IIA)	Ca (Co) = 2.15 μ F	La (Lo) = 36.0 mH	La / Ra (Lo / Ro) = 444 μ H / Ω	
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System Certificate No: N/A			Scale N/A												
Certifying Authority: Factory Mutual			Sheet 2 of 2												
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