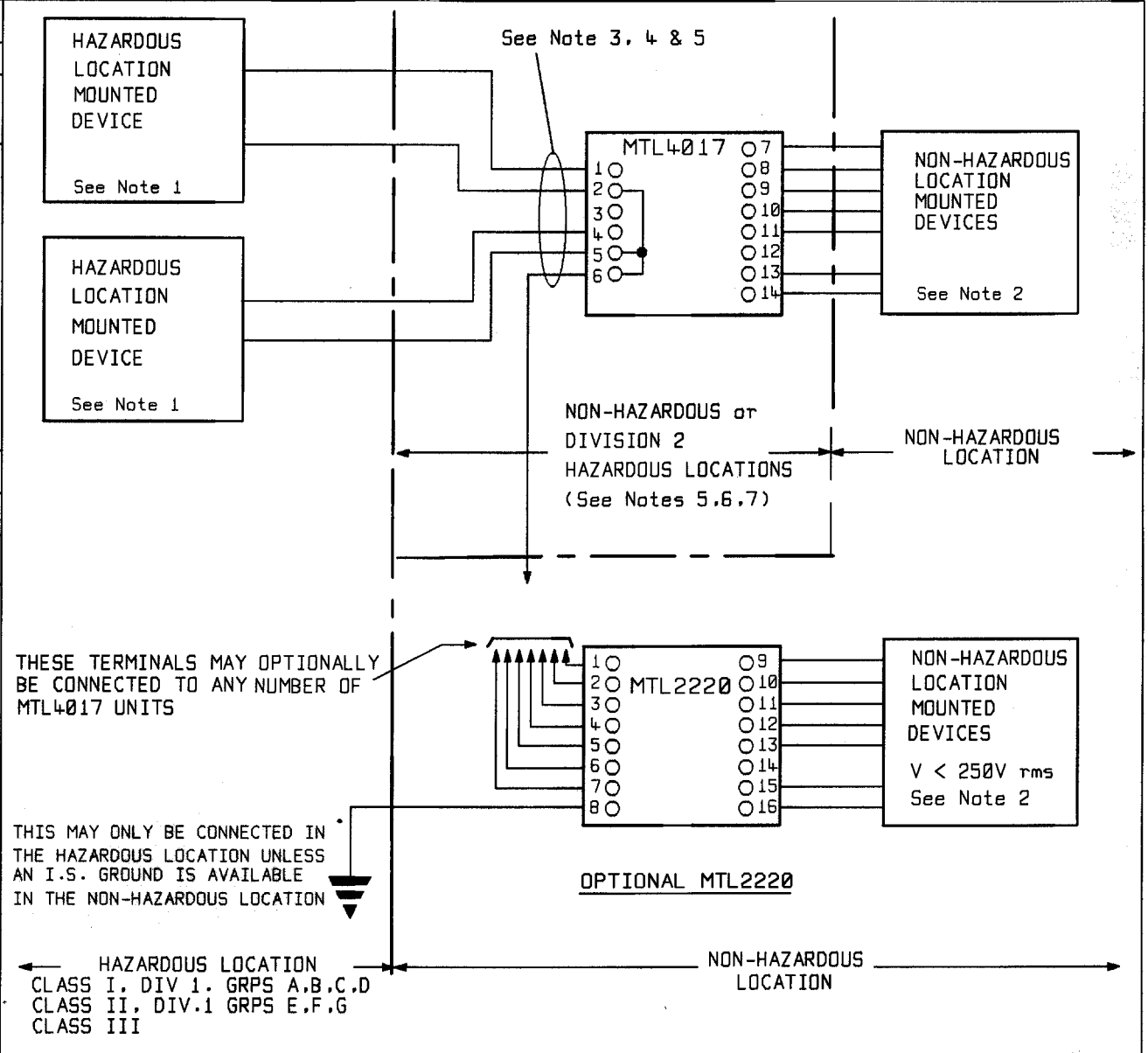

Note 1 The Hazardous location devices may be switches or thermocouples. Other apparatus such as RTD's LEDs and non-inductive resistors may be used if the auto-ignition temperature of the hazardous location is greater than T4 (275°F or 135°C). Certified devices with the correct Entity Concept parameters may also be used.

Note 2 The Non-Hazardous Location (or Control room) devices must not generate or use more than 250V rms.

Note 3 For guidance on the installation see ANSI/ISA RP12.6.

Certifying Authority : Factory Mutual	Scale N/A
Tolerance unless otherwise stated ± N/A	Sheet 1 of 2
Title Installation Drawing for the MTL4017 Two-Channel Switch/Proximity Detector Interface with Line Fault Detection	Drg. No. SCI-484

Vutrax Dir. Cert. Drgs. File name. SCI484.DIA Dir:Amipro\Docs\SCI\SCI484-1-2 CAD A4/3

Is 1 | Date 9.94 | Drn ACW | Modification | No | Cl | Ckd

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Note 4 Entity Parameters for each channel, i.e channel 1 (terminals 1 & 2), channel 2 (terminals 4 & 5) of the MTL4017 without the MTL2220 connected are as follows.

Terminals 1 and 2} Voc ≤ 10.5V
Terminals 4 and 5} Isc ≤ 14mA.

Groups A and B	Ca ≤2.4μF	La ≤ 165mH
Groups C and E	Ca ≤7.2μF	La ≤ 495mH
Groups D,F and G	Ca ≤19.2μF	La ≤ 1000mH

With the MTL2220 connected, Entity Parameters are:

Terminals 1 and 2} Vt ≤ 18.50V It ≤ 14mA.
Terminals 4 and 5}

Groups A and B	Ca ≤0.36μF	La ≤ 165mH
Groups C and E	Ca ≤1.08μF	La ≤ 495mH
Groups D,F and G	Ca ≤2.88μF	La ≤ 1000mH

Note 5 The MTL4017 is Associated Apparatus and when mounted in the appropriate enclosure (See notes 6 and 7) is suitable for installation in the following areas:-

Non-Hazardous Locations
Class I, Division 2, Groups A,B,C and D Hazardous Locations
ClassII, 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 FMRC Approved or NRTL Listed dust-ignition proof enclosure(s) appropriate for environmental protection in class II, Division 2, Groups F and G; Class III Divisions 2 Hazardous Locations.

Note 8 For use in Division Hazardous Locations, the MTL4017 must be installed in Factory Mutual Research Corporation Approved Backplanes.

When the MTL4017 is installed in Division 2 Hazardous Locations, a warning label must be prominently affixed near the unit(s) which warns that the MTL4017 must not be removed or inserted unless the area is known to be non-hazardous.

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System Certificate No:	Scale N/A
Certifying Authority: Factory Mutual	Sheet 2 of 2
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