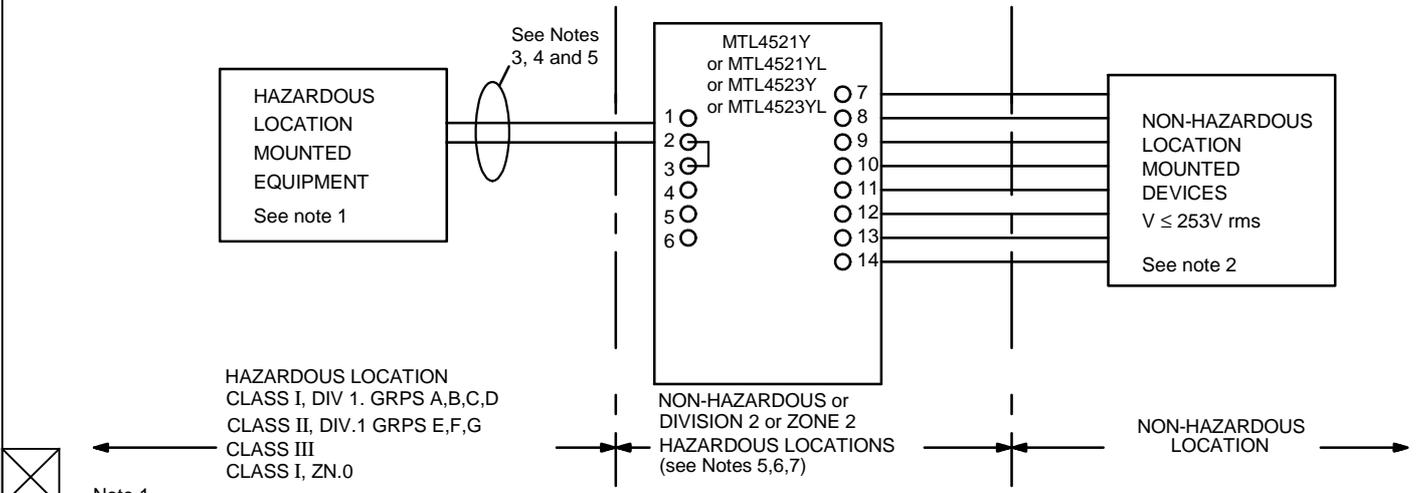




Iss	Date	Drn	Modification
1	2.17	SB	

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**Note 1**

The Hazardous location equipment may be switches or thermocouples. Other apparatus such as RTD's, LEDs and non-inductive resistors may also be used if the auto-ignition temperature of the hazardous location is greater than T4 (275°F or 135°C) . Certified devices with correct Entity Concept parameters may also be used. For Installations in Canada, this equipment must be FM approved for Canada or CSA certified.

**Note 2**

The Non-Hazardous Location (or Control room) equipment must not generate or use more than 253Vrms.

**Note 3**

For guidance on the installation see ANSI/ISA RP 12.06.

**Note 4**

Entity Concept Parameters for terminals 1 w.r.t 2/3 of the MTL4521Y & MTL4523Y are as follows :-

Voc ≤ 25.0V Isc ≤ 147mA (All groups).

Groups A and B, IIC	Ca ≤ 0.11µF	La ≤ 1.4mH
Groups C and E, IIB	Ca ≤ 0.84µF	La ≤ 7.2mH
Groups D,F and G, IIA	Ca ≤ 2.97µF	La ≤ 14.4mH

Entity Concept Parameters for terminals 1 w.r.t 2/3 of the MTL4521YL and MTL4523YL

are as follows :- Voc ≤ 25.0V Isc ≤ 108mA (All groups).

Groups A and B, IIC	Ca ≤ 0.11µF	La ≤ 3.04mH
Groups C and E, IIB	Ca ≤ 0.84µF	La ≤ 12.19mH
Groups D,F and G, IIA	Ca ≤ 2.97µF	La ≤ 24.38mH

**Note 5**

The MTL452\* are 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
- Class I Zone 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 61010-1.

**Note 7**

For use in Division 2 or Zone 2 Hazardous Locations, the MTL452\* must be installed on Factory Mutual Research Corporation Approved Backplanes.

When the MTL452\* is installed in Division 2 Hazardous Locations, a warning label must be prominently affixed near the unit(s) which warns that the MTL452\* must not be removed or inserted unless the area is known to be non-hazardous.

**Note 8**

Installations in Canada must comply with the Canadian Electrical Code.

System Certificate No:	Drn. By N/A	Scale N/A
Certifying Authority: Factory Mutual	Drn. Date 2.17	Sheet 1 of 1
Title Installation Drawing for the MTL452X	Drg. No. SCI-1077	