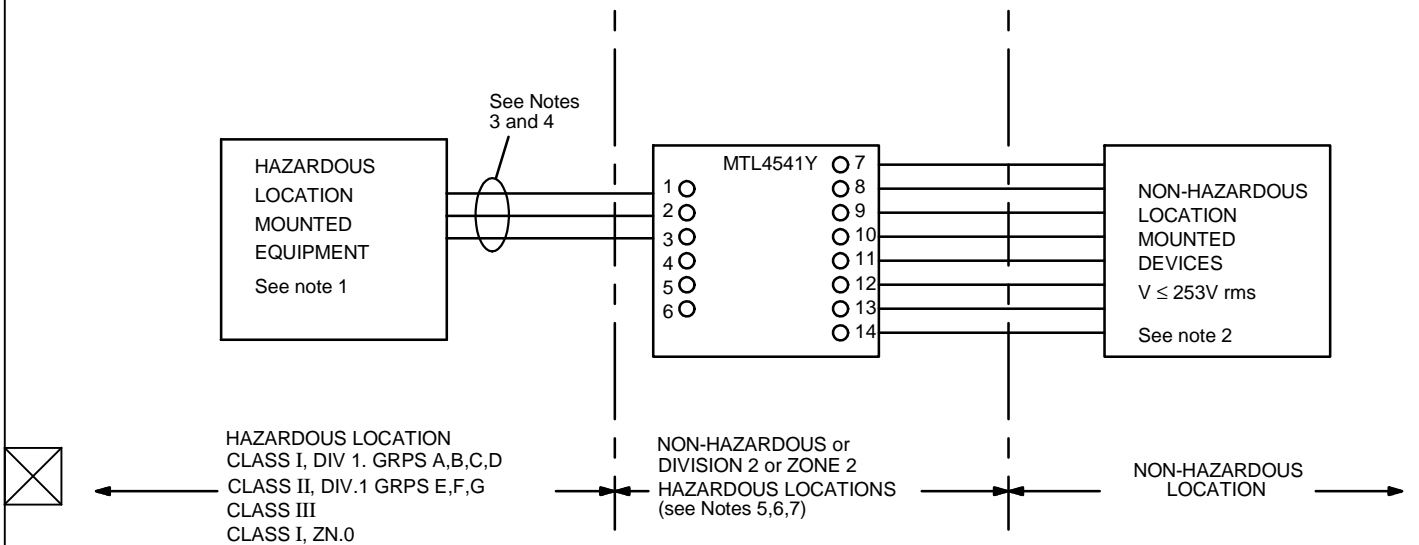




Iss	Date	Drn	Modification
1	2.17	SB	

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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 (275F 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 2 and 1 of the MTL4541Y are as follows.

Voc ≤ 28V Isc ≤ 93mA.

Groups A and B, IIC	Ca ≤ 0.083µF	La ≤ 4.2mH
Groups C and E, IIB	Ca ≤ 0.65µF	La ≤ 12.6mH
Groups D,F and G, IIA	Ca ≤ 2.15µF	La ≤ 33.6mH

Entity Concept Parameters for terminals 3 and 1 of the MTL4541Y are as follows.

Voc ≤ 1.1V Isc ≤ 53mA.

Groups A and B, IIC	Ca ≤ 0.083µF	La ≤ 4.9mH
Groups C and E, IIB	Ca ≤ 0.65µF	La ≤ 20.0mH
Groups D,F and G, IIA	Ca ≤ 2.15µF	La ≤ 40.9mH

Entity Concept Parameters for terminals 2 w.r.t. 3 of the MTL4541Y are as follows.

Voc ≤ 1.1V Isc ≤ 53mA.

Groups A and B, IIC	Ca ≤ 0.083µF	La ≤ 4.9mH
Groups C and E, IIB	Ca ≤ 0.65µF	La ≤ 20.0mH
Groups D,F and G, IIA	Ca ≤ 2.15µF	La ≤ 40.9mH

Note 5

The MTL4541Y is Associated Apparatus and when mounted in the appropriate enclosure (see note 6 and 7) is suitable for installation in the following areas:

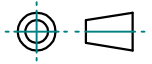
- Non - Hazardous Locations
- Class I Division 2 Groups A,B,C and D Hazardous Locations
- Class I Zone 2 Hazardous Locations

System Certificate No:	Drn. By N/A	Scale N/A
Certifying Authority: Factory Mutual	Drn. Date 2.17	Sheet 1 of 2
Title Installation Drawing for the MTL4541Y	Drg. No. SCI-1078	

Dimensions in mm

Do Not Scale

Third Angle Projection



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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 MTL4541Y must be installed on Factory Mutual Research Corporation Approved Backplanes.

When the MTL4541Y is installed in Division 2 Hazardous Locations, a warning label must be prominently affixed near the unit(s) which warns that the MTL4541Y 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 2 of 2
Title Installation Drawing for the MTL4541Y		Drg. No. SCI-1078