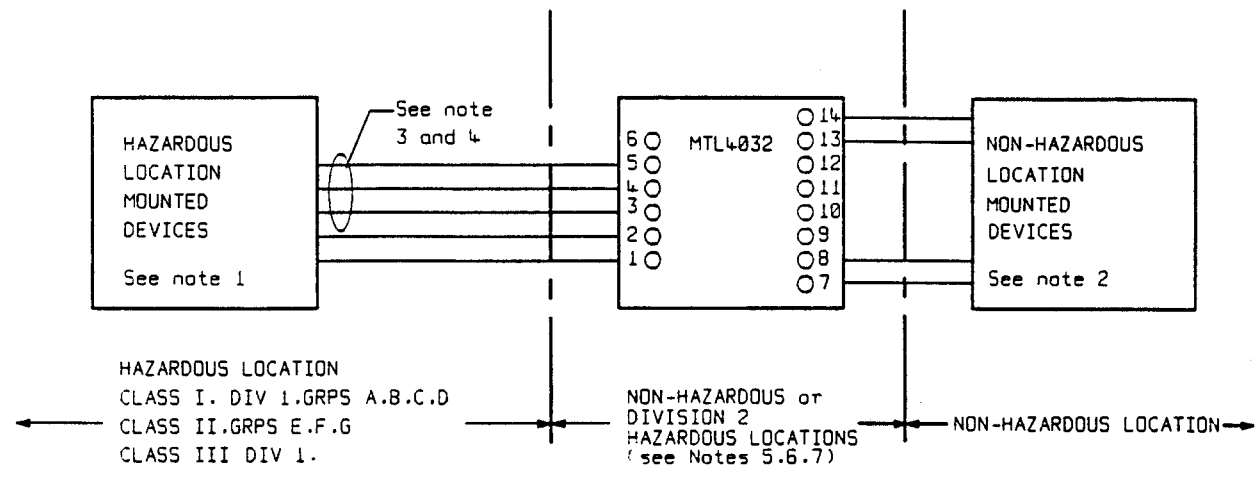


Cl	Ckd	No	Modification
Iss	Date	Drn	Drn
1	6-94	ACM	
2	1-96	PS	TERMINALS 1 & 5 PARAMETERS ADDED TO NOTE 4.



**Note 1** The Hazardous location devices - simple apparatus that will neither generate nor store more than 1.2V, 0.1A, 25mW or 20µJ; examples are switches and 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 or Vdc.

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

**Note 4** Entity Parameters for the MTL4032 are as follows:

- Terminals 1, 4, 5 ;  $V_t - 27.6$ ,  $I_t - 94mA$
- Terminals 1,2 ;  $V_{oc} - 10.5$ ,  $I_{sc} - 13mA$
- Terminals 1,3,4 ;  $V_t - 27.6$ ,  $I_t - 155mA$
- Terminals 1,3 ;  $V_{oc} - 1.1$ ,  $I_{sc} - 51mA$
- Terminals 1,5 ;  $V_{oc} - 10.5$ ,  $I_{sc} - 13mA$

	Parameter	Groups A and B	Groups C and E	Groups D,F and G
Terminals 1,4,5	Ca	0.12µF	0.36µF	0.96µF
	La	4.2mH	12.7mH	34.0mH
Terminals 1,2	Ca	2.4µF	7.2µF	19.2µF
	La	200mH	600mH	800mH
Terminals 1,3,4	Ca	0.12µF	0.36µF	0.96µF
	La	1.57mH	4.7mH	12.5mH
Terminals 1,3	Ca	1000µF	1000µF	1000µF
	La	13.8mH	41.4mH	110mH
Terminals 1,5	Ca	2.4µF	7.2µF	19.2µF
	La	200mH	600mH	800mH

System Certificate No:	N/A	Scale	N/A
Certifying Authority:	Factory Mutual	Sheet	1 of 2
Title	Installation Drawing for the MTL4032 Pulse Isolator		Dwg. No.
			SCI-475

Iss Date	Drn	Modification	No	Cl Ckd
1 6.94	ACH			

**Note 5** The MTL4032 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
- Class II, Division 2, Groups E,F,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 2 Hazardous Locations, the MTL4032 must be installed in Factory Mutual Research Corporation Approved Backplanes.

When the MTL4032 is installed in Division 2 Hazardous Locations, a warning label must be prominently affixed near the unit(s) which warns that the MTL4032 must not be removed or inserted unless the area is known to be non-hazardous.

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System Certificate No:	N/A	Scale	N/A
Certifying Authority:	Factory Mutual	Sheet	2 of 2
Title	Installation Drawing for the MTL4032 pulse Isolator		SCI-475