



**Note 1**

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 auto-ignition temperature of the hazardous location is greater than T4 (135°C, 275°F).

Certified devices with the correct Entity Parameters may also be used.

**Note 2**

The Non-Hazardous Location (or Control Room) equipment must not generate or use more than 250V rms.

**Note 3**

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

**Note 4**

Entity Parameters for terminals 4 and 5 of the MTL4015 are as follows:

$$V_{oc} \leq 10.5 \quad I_{sc} \leq 14mA$$

Groups A and B	$C_a \leq 2.4\mu F$	$L_a \leq 165mH$
Groups C and E	$C_a \leq 7.2\mu F$	$L_a \leq 495mH$
Groups D, F and G	$C_a \leq 19.2\mu F$	$L_a \leq 1320mH$

**Note 5**

The MTL4015 is Associated Apparatus and when mounted in the appropriate enclosure (See notes 6 and 7) is suitable for installation in the following area:-

- 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

System Certificate No:	Scale N/A
Certifying Authority: Factory Mutual	Sheet 1 of 2
Title Installation Drawing for the MTL4015 1-Channel Switch/Proximity Detector Interface	Drg. No. SCI-705

Modification

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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-S82.

Note 7

If enclosures are used to provide environmental to installations in Class II, Division 2, Groups F & G, or Class III locations they must be dust-ignition proof and FMRC-Approved or NRTL-listed.

Note 8

For use in Division 2 Hazardous Locations, the MTL4015 must be installed in Factory Mutual Research Corporation Approved Backplanes.

When the MTL4015 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 MTL4015 must not be removed or inserted unless the area is known to be non-hazardous.

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