

Note : 1

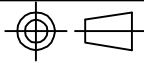
Non-Hazardous Location Apparatus - unspecified except that it must not be supplied from nor contain under normal or abnormal conditions, a source of potential with respect to ground in excess of 265V rms or dc.

Note : 2

The Installation in general should comply with the relevant requirements of the Canadian Electrical Code, Part 1, in particular the recommendations of Appendix F.

This drawing forms part of the CSA certification documentation and must not be modified without reference to the certifying authority

					<p>MTL INSTRUMENTS PVT. LTD. Chennai , India. Copyright reserved - Written Permission to copy should be obtained</p>	Tolerance unless otherwise stated. N/A	IF IN DOUBT, PLEASE ASK!
1	06.05	GS	MCV			Title	Sht. 1 of 2
Iss	Date	Drawn	Chkd	Modification		MTL5018AC SWITCH/PROXIMITY DETECTOR INTERFACE INSTALLATION DIAGRAM	Drg. No MTLI/SCI50-018-21

**Note : 3:**

The 5018AC may be installed as part of a system containing intrinsically Safe Apparatus which has CSA Entity certification, in which case the parameters listed below apply;

Terminal 1 Wrt 2/3 $U_o [10.5V, I_o [14mA, P_o [0.04W$

Terminal 4 Wrt 5/6 $U_o [10.5V, I_o [14mA, P_o [0.04W$

IIC Groups (A and B)	$C_o [2.41\mu F$	$L_o [175mH$
IIB Groups (C and E)	$C_o [16.8\mu F$	$L_o [680mH$
IIA Groups (D,F and G)	$C_o [75\mu F$	$L_o [1000mH$

b) The parameters of the complete installation must meet the following criteria :-

$$U_o [V_{max} \text{ OR } U_i, I_o [I_{max} \text{ OR } I_i$$

$$C_o m C_i + C_{cable}, L_o m L_i + L_{cable}$$

Note 4:

IF ENTITY-CERTIFIED INTRINSICALLY SAFE APPARATUS IS NOT AVAILABLE, then the installation must be made in accordance with the details given in notes 5,6 and 7 below.

Note 5:

Hazardous Location Apparatus - switches, thermocouples or non-inductive resistance devices, or CSA-Certified Apparatus when connected in accordance with the manufacturer's installation instructions.

Note 6:

For intrinsic safety purposes, terminals 1 to 2 & 3 of the MTL5018AC are considered to be a source of power with a maximum open circuit voltage of 10.5V, a minimum output resistance of 800 Ω and a maximum open circuit current of 14mA.

Note 7:

The parameters of load/cable connected to terminals 1 and 4 must comply with the recommended values given in Section F6, Appendix F, Canadian Electrical Code, Part 1.

Note 8:

WARNING : Substitution of components may impair intrinsic safety.

AVERTISSEMENT : La substitution de composants peut compromettre la securite intrinseque.

Note 9:

The MTL5018AC is "ASSOCIATED APPARATUS"/"APPAREILLAGE CONNEXE"[Ex ia] and when mounted in the the appropriate enclosure is suitable for installation in Class 1, Division 2, Groups A,B,C and D Hazardous Locations.

Note 10:

WARNING : EXPLOSION HAZARD - Substitution of components may impair suitability for Class 1, Division 2.

WARNING: EXPLOSION HAZARD - Do not disconnect equipment unless power has been switched off or the area is known to be Non-Hazardous.

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