



FM Approvals  
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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

***MTL5018AC Switch / Proximity Detector Interface, two-channel, with line fault detection and phase reversal***

AIS/I,II,III/1/ABCDEFG – MTLI/SC150-018-11; Entity; NI/I/2/ABCD/T4 Ta = 60°C

[I/0] AEx [ia] IIC – MTLI/SC150-018-11; Entity; NI/I /2 /IIC /T4 Ta = 60°C

Entity Parameters Each Channel:

Voc (Uo) = 10.5V, Isc (Io) = 14.0mA, Po = 0.04W, Ca (Co) = 2.4uF, La (Lo) = 165mH, La/Ra (Lo/Ro) = 1,129uH/Ω

Special Condition of Use:

The MTL5018AC assembly shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.

### Equipment Ratings:

Intrinsically safe connections for Class I, II and III Division 1, applicable Groups A,B, C, D, E, F and G; Class I, Zone 0, AEx [ia] IIC per " Entity" requirements in accordance with the installation drawing , MTLI/SC150-018-11 and non-incendive for Class I, Division 2, Groups A, B, C, and D; Class I, Zone 2 Group IIC hazardous (classified) indoor locations

### FM Approved for:

MTL INSTRUMENTS PVT. LTD.  
SHOLINGANALLUR, CHENNAI, TAMILNADU  
INDIA 600119



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This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3610	2010
Class 3611	1999
ANSI/ISA-60079-0	2009
ANSI/ISA-60079-11	2009

Original Project ID: 3013810

Approval Granted: August 29, 2002

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
100923	September 29, 2010		

FM Approvals LLC

  
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J.E. Marquedant  
Group Manager, Electrical

29 September 2010  
Date