

CERTIFICATE OF CONFORMITY



- HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
- Certificate No:** FM17US0067X
- Equipment:** MTL5000 Series Isolating Barriers
(Type Reference and Name)
- Name of Listing Company:** Eaton Electric Limited
- Address of Listing Company:** Great Marlings
Butterfield
Luton LU2 8DL
United Kingdom
- The examination and test results are recorded in confidential report number:
3005457 dated 18th May 2000
- FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:
FM Class 3600:2011, FM Class 3610:2015, FM Class 3611:2004, FM Class 3810:2005
- If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
- This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
- Equipment Ratings:**
Associated Intrinsically Safe apparatus with connections to Class I, II, III Division 1, Group A, B, C, D, E, F and G; Class I, Zone 0, [AEx ia] IIC per "Entity" requirements in accordance with the respective installation drawings, and non-incendive for Class I, Division 2, Groups A, B, C and D; Class I, Zone 2 Group IIC hazardous (classified) indoor locations.

Certificate issued by:

J. E. Marquedant
Manager, Electrical Systems

31 March 2017

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
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SCHEDULE



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11. The marking of the equipment shall include:

MTL5082:

Intrinsically safe connections to Class I, II, III, Division 1, Groups A, B, C, D, E, F and G - SCI-860, Entity
Class I, Zone 0 [AEx ia] IIC - SCI-860, Entity
Non-incendive for Class I, Division 2 Groups A, B, C, D; T6 Ta = 60°C
Class I, Zone 2 IIC T6 Ta = 60°C

MTL5314:

Intrinsically safe connections to Class I, II, III, Division 1, Groups A, B, C, D, E, F and G - SCI-799, Entity
Class I, Zone 0 [AEx ia] IIC - SCI-799, Entity
Non-incendive for Class I, Division 2 Groups A, B, C, D; T5 Ta = 60°C
Class I, Zone 2 IICT4 T5 Ta = 60°C

12. **Description of Equipment:**

General - MTL5000 Series isolators provide intrinsically safe (IS) communication and signal conditioning for a wide range of hazardous-area devices. Total ac and dc isolation exists between input, output and power supply on separately powered units, and between input and output on loop-powered units. No IS earth is required. DIN-rail mounting and plug-in signal and power connectors for installation.

Construction – Each isolating barrier assembly consists of a coated printed circuit board enclosed in a glass reinforced polyester plastic housing. The housing measures 104mm (4.1in.) x 110mm (4.3 in.) x 16mm (0.6in.) and is Din rail mounted. Intrinsically safe terminals are provided via two three pin connectors which receive a mating connector and pins used to interconnect field wiring cables from the barrier assembly and the intrinsically safe apparatus. Non hazardous field wires are terminated via two three pin connectors. Intrinsically safe and non-intrinsically safe connections are not interchangeable.

Ratings – Um = 250Vrms. The equipment is rated for use in an ambient temperature range of -20°C to +60°C.

MTL5082. Resistance Isolator.

AIS / I,II,III / 1 / ABCDEFG - SCI-860, Entity; NI / 1 / 2 / ABCD / T6 Ta = 60°C
I / 0 / [AEx ia] / IIC - SCI-860, Entity; I / 2 / IIC / T6 Ta = 60°C

MTL5040. 4/20mA Loop Isolator.

AIS / I,II,III / 1 / ABCDEFG - SCI-764, Entity
NI / 1 / 2 / ABCD / T5 Ta = 60°C
I / 0 / [AEx ia] / IIC - SCI-764, Entity
I / 2 / IIC / T5 Ta = 60°C

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13. Specific Conditions of Use:

1. *Must be installed in suitable equipment enclosure in accordance with ANSI/ISA S82.01 & S82.03.*

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
14 th June 2000	Original Issue.
31 st March 2017	Supplement 1: Report Reference: – 3061512 dated 31 March 2017. Description of the Change: Recertification to FM3610:2015. Updated certificate to new format. Review of minor document changes.

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