

# CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION COMPONENT PER US REQUIREMENTS**
2. **Certificate No:** FM16US0002U
3. **Component:** MTL Gecma COM Module – fiber interface  
**(Type Reference and Name)**
4. **Name of Listing Company:** Eaton Electric Ltd
5. **Address of Listing Company:** Great Marlings, Butterfield  
Luton, Bedfordshire,  
UK  
LU2 8DL
6. The examination and test results are recorded in confidential report number:  
  
3054963 dated 2<sup>nd</sup> March 2017
7. FM Approvals LLC, certifies that the component described has been found to comply with the following Approval standards and other documents:  
  
FM Class 3600:2011, FM Class 3810:2005,  
ANSI/ISA 60079-0:2013, ANSI/ISA 60079-11:2014, ANSI/ISA 60079-18:2015, and  
ANSI/ISA 60079-28:2015
8. The sign 'U' placed after the certificate number indicates that this certificate must not be mistaken for a certificate for equipment or a protective system. This certificate may only be used as the basis for the certification of equipment or a protective system. This certificate is issued to the manufacturer also intended to be the holder of the equipment certificate which includes this component.
9. This certificate relates to the design, examination and testing of the component 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 component as examined, tested and Approved.

**Certificate issued by:**

J.E. Marquedant  
Manager, Electrical Systems

2 March 2017

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://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  
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: [information@fmapprovals.com](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)

# SCHEDULE



US Certificate Of Conformity No: FM16US0002U

10. Component Ratings:

Encapsulated, and intrinsically safe with intrinsically safe connections to peripherals and fibre optic outputs to a safe area unit for Class I, Zone 1, AEx mb [ib] op is IIC T4 Gb hazardous (classified) locations with an ambient temperature rating of -30°C to +60°C.

11. The marking of the component shall include:

Class I, Zone 1 AEx mb [ib] op is IIC T4 Gb Ta = -30 °C to +60 °C – with fiber interface

12. **Description of Equipment:**

**General** - The MTL Gecma COM Module is designed for use with the MTL Gecma Workstation. This provides an interface to non-hazardous location apparatus via a fiber optic link and intrinsically connections for peripherals. The COM module is encapsulated in to an aluminium enclosure with exposed intrinsically safe connectors. Power is provided from the Gecma Power Supply module (FM16US0004X).

**Gecma COM Module fiber – with optical interface**

I / 1 / AEx mb [ib] op is/ IIC / T4 Gb Ta = -30 °C to +60 °C

13. **Schedule of Limitations:**

1. *The Gecma COM module shall only be powered from a Gecma PSM Module, FM16US0001X.*
2. *The LVDS connector shall only be connected to a Gecma Display Module, FM16US0003U.*
3. *The Gecma COM module shall be housed in an enclosure that provides protection against damage to the cables and additionally protects the exposed casting compound at the filling hole from impact and direct exposure to ultra-violet light.*
4. *The enclosure is manufactured from aluminium alloy. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation.*
5. *The intrinsically safe circuit is not isolated from the enclosure; this shall be considered during installation.*

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:

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

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

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: [information@fmaprovals.com](mailto:information@fmaprovals.com) [www.fmaprovals.com](http://www.fmaprovals.com)

# SCHEDULE



Member of the FM Global Group

US Certificate Of Conformity No: FM16US0002U

Date	Description
2 <sup>nd</sup> March 2017	Original Issue.

FM Approvals

FM Approvals

FM Approvals

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

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA  
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: [information@fmaprovals.com](mailto:information@fmaprovals.com) [www.fmaprovals.com](http://www.fmaprovals.com)