

# CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**

2. **Certificate No:** FM16US0393X

3. **Equipment:** Gecma RT Safe Area Unit  
**(Type Reference and Name)**

4. **Name of Listing Company:** Eaton Electric Limited

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:

3061013 dated 31<sup>st</sup> March 2017

7. 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 3610:2010, FM Class 3810:2005,  
ANSI/ISA 60079-0:2013, ANSI/UL 60079-11:2014, ANSI/ISA 60079-28:2015

8. 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.

9. 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.

**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](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  
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# SCHEDULE



US Certificate Of Conformity No: FM16US0393X

10. Equipment Ratings:

Gecma RT Safe Area Unit Copper

Associated intrinsically safe apparatus [AEx ib IIC Gb] and [AEx ib IIIC Db] for connection to Class I, Zone 1, AEx ib IIC or Zone 21 AEx ib IIIC hazardous (classified) locations, indoors only with an ambient temperature rating of -30°C to +60°C.

Gecma RT Safe Area Unit Fiber

Associated optical apparatus [AEx op is IIC T4 Gb] for connection to optical apparatus AEx op is IIC T4 Gb hazardous (classified) locations, indoors only with an ambient temperature rating of -30°C to +60°C.

11. The marking of the equipment shall include:

Gecma RT Safe Area Unit Copper

[AEx ib IIC Gb] Ta = -30°C to +60°C – Um = 250V

[AEx ib IIIC Db] Ta = -30°C to +60°C – Um = 250V

Gecma RT Safe Area Unit Fiber

[AEx op is IIC T4 Ga] Ta = -30°C to +60°C

12. **Description of Equipment:**

**General** - The Gecma RT Safe Area Units (SAU) are designed as a keyboard, video mouse transceiver for installation in an unclassified location and connection to a hazardous location. Two versions are available, a copper version, which provides intrinsically safe connections to the Gecma RT Workstation and a fiber version, which provides optical connections to the Gecma RT Workstation.

**Construction** - Gecma RT Safe Area Units both copper and fiber versions are available as desk mounted and rack mounted configurations. The desk mounted includes only one channel, the rack mounted can include up to four channels. Copper and fiber version are not mixed in the rack mounted version.

**Ratings** - The Gecma RT Safe Area Units at 110-230 Vac (20W – 80W). The SAUs are rated for use in an ambient temperature range of -30°C to +60°C.

***Gecma Safe Area unit with copper communications***

***Gecma Safe Area unit with fiber communications***

13. **Specific Conditions of Use:**

1. When the Gecma RT Safe Area Unit – Copper is connected to another device via an Ethernet cable, the two devices at each end of the Ethernet cable shall be connected to the same equipotential earth

14. **Test and Assessment Procedure and Conditions:**

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# SCHEDULE



Member of the FM Global Group

US Certificate Of Conformity No: FM16US0393X

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
31 <sup>st</sup> March 2017	Original Issue.

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