



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEX BAS 14.0060U

Issue No: 1

Certificate history:

Issue No. 1 (2017-12-06)

Issue No. 0 (2014-08-14)

Status: **Current**

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Date of Issue: **2017-12-06**

Applicant: **Eaton Electric Limited**  
Great Marlings  
Butterfield  
Luton  
Bedfordshire  
LU2 8DL  
**United Kingdom**

Equipment: **F93-XE Fieldbus Terminator**

Optional accessory:

Type of Protection: **Increased Safety, Encapsulation**

Marking:  
**Ex e mb IIC Gb (Ta = -40°C to +75°C)**

Approved for issue on behalf of the IECEX  
Certification Body:

R. Sinclair

Position:

Technical Manager

Signature:  
(for printed version)

Date:

6-12-17

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:

**SGS Baseefa Limited**  
Rockhead Business Park  
Staden Lane  
Buxton, Derbyshire, SK17 9RZ  
United Kingdom





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Manufacturer: **Eaton Electric Limited**  
Great Marlings  
Butterfield  
Luton  
Bedfordshire  
LU2 8DL  
**United Kingdom**

Additional Manufacturing location(s):

**MTL Instruments Pvt Limited**  
No 3 Old Mahabalipuram Road  
Sholinganallur  
Chennai 600119  
India

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-18 : 2009</b> Edition:3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
<b>IEC 60079-7 : 2006-07</b> Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[GB/BAS/ExTR14.0063/00](#)      [GB/BAS/ExTR16.0283/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0022/07](#)      [GB/BAS/QAR07.0017/06](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The F93-XE Fieldbus Terminator is designed for use in MTL's 937x-FB2 (enclosure system) and 938x-FB2 (open-frame) Fieldbus Barriers. It provides the "far end" termination that is required for device couplers in FOUNDATION Fieldbus H1 networks.

The F93-XE Fieldbus Terminator contains resistive and capacitive components mounted on a fully encapsulated PCB. The F93-XE is mounted by clamping its two pins in suitable terminals. These pins also provide connections to the unit.

The F93-XE Fieldbus Terminator must not be removed or replaced while the Fieldbus Barrier segment is under power in a hazardous area.

Rated voltage = 32V d.c. + 2V a.c. pk-pk

### Schedule of Limitations

1. When used within the limits on this certificate, the F93-XE Fieldbus Terminator is considered suitable for temperature class T4.
2. The F93-XE Fieldbus Terminator must be housed in an appropriately certified Ex e enclosure.
3. The F93-XE Fieldbus Terminator shall only be powered from supplies conforming to IEC 61158.
4. The potting material must be protected from UV light.

**SPECIFIC CONDITIONS OF USE: NO**



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

### Variation 1.1

To permit the change of company name and associated marking changes.

ExTR: **GB/BAS/ExTR16.0283/00**

File Reference: **16/0371**