



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX BAS 17.0112X** Page 1 of 4 Certificate history:
Issue 0 (2017-11-15)

Status: **Current** Issue No: 1

Date of Issue: 2019-12-09

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

Equipment: **93ZX-FB2-XX-XX-XXXX Fieldbus Barrier System**

Optional accessory:

Type of Protection: **Flameproof, Increased Safety, Intrinsic Safety, Encapsulation, Protection by Enclosure**

Marking: **Ex db eb ib mb [ia Ga] IIC T4 Gb (Ta = -40°C to +65°C)
Ex tb IIIC T80°C Db**

Approved for issue on behalf of the IECEx
Certification Body:

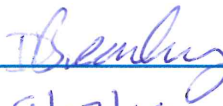
R.S. Sinclair

D BREARLEY
Certification
Manager

Position:

Technical Manager

Signature:
(for printed version)



9/12/19

Date:

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 www.iecex.com or use of this QR Code.



Certificate issued by:

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





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

Additional manufacturing locations: **MTL Instruments PVT Limited**
No 3 Old Mahabalipuram Road
Sholinganallur
Chennai
600 119
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 equipment 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

IEC 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2009 Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
Edition:3

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:4

This Certificate **does not** indicate compliance with 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 Reports:

[GB/BAS/ExTR17.0265/00](#)

[GB/BAS/ExTR19.0310/00](#)

Quality Assessment Reports:

[GB/BAS/QAR06.0022/08](#)

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The 93ZX-FB2-XX-XX-XXXX Fieldbus Barrier System comprises one (where ZX-87) or two (where ZX-88) 937X-FB2-**-** Fieldbus Barrier Module(s) mounted inside a stainless steel enclosure.

The 93ZX-FB2-XX-XX-XXXX Fieldbus Barrier System is designed to be supplied from a power supply conforming to IEC 61158 and produce 12 Spur outputs that are each compliant with the FISCO Power Supply requirements. The Spur outputs are isolated from the input supply but are not isolated from each other. Electrical connections are made via screw or spring terminals.

See certificate Annex for the Terminal Parameters.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The equipment shall only be powered from supplies conforming to IEC 61158.
2. When a Trunk Surge Module is fitted, the power input circuit will not withstand a 500V a.c. isolation test to earth. This must be taken into account during installation.
3. When one or more Spur Surge Modules are fitted, the spur outputs will not withstand a 500V a.c. isolation test to earth. This must be taken into account during installation.
4. Potential electrostatic hazard. Equipment fitted with a plastic label should only be cleaned with a damp cloth.
5. When the enclosure is fitted with a hinged lid fitted, it shall only be mounted in a vertical orientation on a flat surface, and care is required in the installation process and when opening the hinged lid to ensure the enclosure does not distort.
6. When the enclosure is fitted with a fully bolted lid the enclosure may be mounted in any orientation but it shall be on a flat surface and care is required in the installation process to ensure that the enclosure does not distort.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 1.1

To permit the use of alternative enclosures.

Variation 1.2

To confirm the correct marking:

Ex db eb ib mb [ja Ga] IIC T4 Gb

Ex tb IIC T80°C Db

Variation 1.3

To permit the certification temperature range as shown on the label to be extended. The equipment is now marked:

$-40^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$

ExTR: **GB/BAS/ExTR19.0310/00**

File Reference: **19/0470**