



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

Certificate No.: IECEX BAS 09.0083X Issue No: 3 Certificate history:
Status: **Current** Page 1 of 4 Issue No. 3 (2017-06-12)
Date of Issue: **2017-06-12** Issue No. 2 (2013-10-24)
Applicant: **Eaton Electric Limited** Issue No. 1 (2010-07-14)
Great Marlings Issue No. 0 (2009-09-30)
Butterfield
Luton
Bedfordshire
LU2 8DL
United Kingdom

Equipment: **FS32/FS32G Fieldbus Surge Protection Device**
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Ex ia IIB T3 Ga or Ex ia IIC T4 Ga (See Schedule)**
(-40°C ≤ Ta ≤ +50°C or 75°C See Schedule)

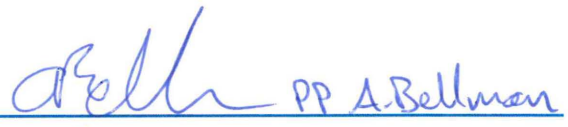
Approved for issue on behalf of the IECEX
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:
(for printed version)


PP A. Bellman
12th June 2017

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 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
United Kingdom

Additional Manufacturing location(s):

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 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:

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

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

*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/ExTR09.0118/00](#)

[GB/BAS/ExTR13.0217/00](#)

[GB/BAS/ExTR16.0326/00](#)

Quality Assessment Report:

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

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



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The FS32/FS32G Fieldbus Surge Protection Devices are designed as a FISCO Field Device, to provide protection for sensitive electronic Fieldbus compatible equipment, and are intended to be mounted either in a Safe Area immediately following a certified FISCO Power Supply having an intrinsically safe output or within a Hazardous Area connected in an intrinsically safe circuit.

The FS32/FS32G Fieldbus Surge Protection Devices have identical circuits but differ in the physical arrangement of the connecting pins. Both units do not in themselves provide any intrinsically safe voltage or current limiting functions and must be supplied from a suitably certified intrinsically safe FISCO source. They connect across the positive and negative lines with screen and earth, and all connections must form part of the same intrinsically safe circuit.

The units comprise a diode bridge circuit, two gas discharge tubes, a silicon avalanche diode and two metal oxide varistors mounted on a printed circuit board. This assembly is housed within a plastic enclosure, with the lower section encapsulated, which is provided with a three pin input connector and a three pin output connector. An additional central M3 screw provides the earth connection and two M2.5 screws provide the mounting arrangement.

See Annex for alternative codes and input parameters.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The FS32/FS32G Fieldbus Surge Protection Devices may not be capable of withstanding the 500V voltage withstand test for one minute without breakdown to earth. This must be taken into consideration in any installation.
2. When the FS32/FS32G Fieldbus Surge Protection Devices are mounted within a Hazardous Area the plastic enclosure is considered to present a potential electrostatic risk. Do not rub or clean with solvents.
3. The FS32/FS32G Fieldbus Surge Protection Devices do not meet the requirements of IP20 at the top and bottom connectors. This must be taken into consideration in any installation and once installed the overall assembly must meet the requirements of IP20.



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

Variation 3.1

To permit the manufacturer's name to be changed on the certificate and on the equipment marking. No other changes are made to the equipment design.

ExTR: **GB/BAS/ExTR16.0326/00**

File Reference: **16/0371**

Annex:

[IECEX BAS 09.0083X Annex.pdf](#)