



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 17.0015X issue No.: 0 Certificate history: _____

Status: **Current**

Date of Issue: 2017-03-02 Page 1 of 3

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

Equipment: **FS32 & FS32G Surge Protection Device**
Optional accessory:

Type of Protection: **Increased Safety**

Marking: **Ex ec IIC T4 Gc (-40°C ≤ Ta ≤ +70°C)**

Approved for issue on behalf of the IECEx
Certification Body:

R.S. Sinclair *PP DUREANLEY*

Position:

Technical Manager

Signature:
(for printed version)

Dureanley

Date:

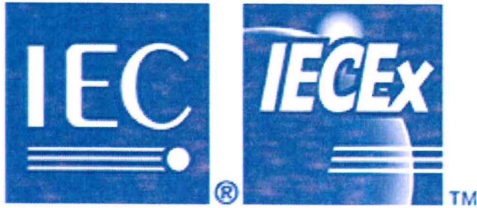
2/3/17

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:

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

Edition: 6.0

IEC 60079-7 : 2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

Edition: 5.0

*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

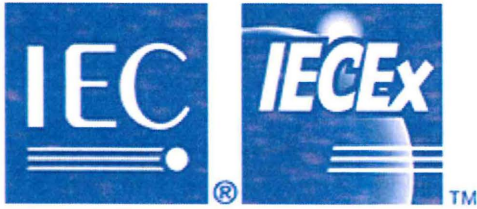
Test Report:

[GB/BAS/ExTR17.0023/00](#)

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 Surge Protection Devices are designed to provide protection for sensitive electronic equipment mounted in a zone 2 hazardous area. The equipment provides no voltage or current limitation and therefore must be supplied from a suitable zone 2 source.

The FS32 & FS32G Surge Protection Devices have identical circuit but differ in the configuration of the connection pins. Both comprise a diode bridge circuit, two gas discharge tubes, a silicon avalanche diode and two metal oxide varistors mounted on a single printed circuit board. This assembly is housed in a plastic enclosure with the lower section encapsulated. External input and output connections to the circuit are provided via plug and socket connectors with an additional M3 screw providing the earth connection to the equipment earth facility, and two M2.5 screws providing the means to secure the device to the equipment to which it is connected to.

Input / Output Parameters

Top Connector Input – '+', '-' & 'S'

Maximum Rated Voltage = 32V d.c.

Bottom Connector Output '+', '-' & 'S'

Output Voltage = Input Voltage

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1) The equipment must be installed in an area of at least Pollution Degree 2, as defined in IEC 60664-1, and in an enclosure that provides a degree of protection of at least IP54 and meets the relevant requirements of IEC 60079-0 and IEC 60079-7.
- 2) The equipment may not be capable of withstanding the 500V dielectric strength test in accordance with clause 7.1 of IEC 60079-7. This must be taken into account during installation.
- 3) All connections to the equipment must not be inserted or removed unless either the area in which the equipment is installed is known to be non-hazardous, or the circuit to which it is connected has been de-energised.