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 13.0095X

Issue No: 1

Certificate history:
Issue No. 1 (2017-06-12)
Issue No. 0 (2013-10-24)

Status: **Current**

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

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

Equipment: **FP32 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 ≤ +70°C)

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: Technical Manager

Signature:
(for printed version) PP. A.Bellman

Date: 12th June 2017

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.

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
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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

*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/ExTR13.0221/00 GB/BAS/ExTR16.0328/00

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 FP32 Fieldbus Surge Protection Device is designed as a FISCO Field Device, to provide protection for sensitive electronic Fieldbus compatible equipment, and it is intended to be mounted in a Safe Area immediately following a FISCO Power Supply or within a Hazardous Area.

This unit does not in itself provide any voltage or current limiting functions and must be supplied from a suitably certified intrinsically safe FISCO source. It is a dual channel unit, with screen and earth, but all connections and both channels must form part of the same intrinsically safe circuit.

The unit comprises two series resistors, 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 an MTL7700 Series plastic enclosure, which is provided with four input and four output terminals in addition to a base spring, which provides mounting on a DIN earthing rail. The lower part of the enclosure is encapsulated to consolidate the mounting arrangement.

The FP32 Fieldbus Surge Protection Device is considered to be coded Ex ia IIB T3 Ga (-40°C ≤ Ta ≤ +70°C) when supplied from a Certified [Ex ia] Group IIB source.

The FP32 Fieldbus Surge Protection Device is considered to be coded Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +70°C) when supplied from a Certified [Ex ia] Group IIC source.

See Annex for Input and Output Parameters for Ex ia IIB T3 Ga (-40°C ≤ Ta ≤ +70°C) and Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +70°C).

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The FP32 Fieldbus Surge Protection Device is not 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 FP32 Fieldbus Surge Protection Device is mounted within a Hazardous Area the plastic enclosure is considered to present a potential electrostatic risk. Do not rub or clean with solvents.

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

Variation 1.1

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/ExTR16.0328/00** File Reference: **16/0371**

Annex:

IECEx BAS13.0095XAnnex.pdf