



# 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 16.0074X issue No.:1

Certificate history:  
Issue No. 1 (2016-11-2)  
Issue No. 0 (2016-9-9)

Status: **Current**

Date of Issue: 2016-11-02 Page 1 of 5

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

Equipment: **FCS-9502-XXX 4 Spur Megablock Enclosure**  
*Optional accessory:*

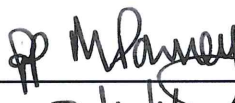
Type of Protection: **Ex e, Ex db, Ex mb**

Marking: **Ex db e mb IIC T4 Gb -40°C ≤ Ta ≤ +60°C**

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

Position: Technical Manager

Signature:  
(for printed version)

  
2/4/16

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,  
LU2 8DL,  
**United Kingdom**

Additional Manufacturing location(s):

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 60079-1 : 2014-06</b> Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-18 : 2014</b> Edition: 4.0	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/ExTR16.0179/00](#)

[GB/BAS/ExTR16.0287/00](#)

#### Quality Assessment Report:

[GB/BAS/QAR07.0017/05](#)



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## Schedule

### EQUIPMENT:

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

The FCS-9504-XXX (where XXX can include 182-212) 4 Spur Megablock Enclosure is an assembly of Ex certified components. The equipment is fitted with one F2XX-XE MTL Relcom Megablock. The enclosure ((L x W x H) 260mm x 260mm x 160mm) is manufactured from sheet steel metal and has an IP66 ingress protection rating. The enclosure is populated with terminal blocks, a surge protector and a Megablock; all of which are Ex certified.

The enclosure is afforded certificate number IECEx BVS 13.0026U and is marked Ex e IIC Gb. One face of the external wall permits the following entries, IP66 rated breather/drain, up to 8 off Ex e certified accessories which include; cable glands, thread adaptors and or blanking elements.

The internal construction of the equipment contains the following specific components:

- 1 off Ex mb certified 4 way type F245-XE or F247-XE Megablocks currently afforded certificate number IECEx DEK 16.0036X.
- Up to 6 off Ex e terminals of type WDU2.5 currently afforded certificate number IECEx ULD 14.0005U.
- Up to 3 off Ex e terminals of type WDK2.5V currently afforded certificate number IECEx ULD 15.0003U
- 1 off Ex db certified surge protector currently afforded certificate number IECEx BAS 15.0056X.

The equipment has two terminal block divisions, TB1 and TB2. TB1 accommodates the WDU2.5 terminals and TB2 the WDK2.5V type terminals. The megablock conductors are connected to the feed through terminal blocks on TB2. The surge protector may be fitted as an option, when fitted the conductors are connected and secured to terminal blocks on TB2. Additionally the megablock may be fitted with an optional terminator of type FCS-MBT-XE which is certified under the same certificate.

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. The equipment shall be effectively earth bonded prior to use.
2. Unused terminals shall be tightened.
3. The enclosure shall not be fitted with flat gasket 2 as detailed on IECEx BVS 13.0026U.
4. The lid must be opened and closed in a vertical position so that the hinges are surely protected against excessive mechanical forces.
5. Only suitably Ex certified cable glands, blanking elements and or thread adaptors may be fitted on the enclosure.



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## EQUIPMENT(continued):

The equipment is suitable for use in an ambient temperature of -40°C to +60°C. The power ratings of the equipment are 30V d.c, 1.5A. The internal components within the enclosure are listed on the table below:

Item	Certificate	Marking	Standards
Enclosure type N-TB...	IECEX BVS 13.0026U	Ex e IIC Gb Ex tb IIIC Db	IEC 60079-0:2011 6 <sup>th</sup> Edition IEC 60079-7:2007 4 <sup>th</sup> Edition IEC 60079-31:2013 2 <sup>nd</sup> Edition
Fieldbus XE Megablock/ FCS-MBT-XE Terminator (optional)	IECEX DEK 16.0036X	Ex eb mb IIC T4 Gb -45°C to +70°C	IEC 60079-0:2011 6 <sup>th</sup> Edition IEC 60079-7:2015 5 <sup>th</sup> Edition IEC 60079-18:2014 4 <sup>th</sup> Edition
WDK2.5V Feed Through Terminal Blocks	IECEX ULD 15.0003U	Ex eb IIC	IEC 60079-0:2011 6 <sup>th</sup> Edition IEC 60079-7:2007 4 <sup>th</sup> Edition
WDU2.5 Feed Through Terminal Blocks	IECEX ULD 14.0005U	Ex eb IIC	IEC 60079-0:2011 6 <sup>th</sup> Edition IEC 60079-7:2007 4 <sup>th</sup> Edition
Surge Protection Units Fieldbus Surge Protector Type TP32	IECEX BAS 15.0056X	Ex db IIC T6 Gb T <sub>amb</sub> -40°C to +70°C.	IEC 60079-0:2011 6 <sup>th</sup> Edition IEC 60079-1:2014 7 <sup>th</sup> Edition



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

### Variation 1.1

To allow the alteration of the equipment's name on the certificate from FCS-9504-182 to FCS-9504-XXX. So that the certificate covers variant models from 182 up to and including 212

ExTR: GB/BAS/ExTR16/0287/00

File Reference: 16/0729