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 FMG 11.0017X**

Page 1 of 4

Certificate history:

Status: **Current**

Issue No: 8

Issue 7 (2022-12-19)
Issue 6 (2020-03-10)
Issue 5 (2019-10-02)
Issue 4 (2017-03-02)
Issue 3 (2016-11-22)
Issue 2 (2014-11-14)
Issue 1 (2013-06-26)
Issue 0 (2011-09-16)

Date of Issue: 2024-09-09

Applicant: **Relcom, Inc.**
2221 Yew Street
Forest Grove, OR 97116
United States of America

Equipment: **F304, F308, F312, F316**

Optional accessory: F97

Type of Protection: **'nA', 'ec' and 'ic'**

Marking: F3xx:

Ex nA IIC T4 Gc Ta = -50°C to 70°C

Ex ec IIC T4 Gc Ta = -50°C to 70°C

Ex nA [ic] IIC T4 Gc Ta = -50°C to 70°C

Ex ec [ic] IIC T4 Gc Ta = -50°C to 70°C

FISCO Ex ic IIC T4 Gc Ta = -50°C to 70°C

F3xx-V2:

Ex nA IIC T4 Gc Ta = -50°C to 70°C

Ex ec IIC T4 Gc Ta = -50°C to 70°C

FISCO Ex ic IIC T4 Gc Ta = -50°C to 70°C

Approved for issue on behalf of the IECEx Certification Body: **J. E Marquedant**

Position: **VP, Manager - Electrical Systems**

Signature:
(for printed version)

Date:
(for printed version)

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:

FM Approvals LLC
One Technology Way
Norwood MA 02062
United States of America

Member of the FM Global Group

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

Manufacturing locations:

Relcom, Inc.
2221 Yew Street
Forest Grove, OR 97116
United States of America

MTL Instruments PVT Ltd.
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 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

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

IEC 60079-15:2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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:

US/FMG/ExTR11.0011/00
US/FMG/ExTR11.0011/01
US/FMG/ExTR11.0011/02
US/FMG/ExTR11.0011/03
US/FMG/ExTR11.0011/04
US/FMG/ExTR11.0011/05
US/FMG/ExTR11.0011/06
US/FMG/ExTR11.0011/07
US/FMG/ExTR11.0011/08

Quality Assessment Reports:

FR/LCI/QAR06.0002/16
GB/BAS/QAR06.0022/11
GB/BAS/QAR07.0017/10

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

F304, F308,F312 and F316 series Megablocks are a product line of device couplers. The F304,F308,F312 and F316 products provide a number of ports for connecting Fieldbus devices to a Fieldbus segment. Each port includes a current limiting circuit. The current limiting prevents a short on the spur cabling and the associated device attached to any one port from shorting the entire Fieldbus segment. The F97 terminator is designed to plug into the F304,F308,F312 and F316. The current limiting, combined with voltage limiting is the Fieldbus power supply, also limits the energy available from and spur and allows Ex nA [ic] IIC T4 Gc, Ex ec [ic] IIC T4 Gc and Ex ic IIC T4 Gc certification and are to be installed in an IP54 enclosure.

Entity Parameters:

Ui = 24V (IIC), Ui = 32V (IIB, IIA), Ci = 0, Li = 0

Uo = Ui, Co = 80nF, Lo = 0.15mH (IIC), Lo = 0.26mH (IIB, IIA)

The model code structure for the F3xx Megablocks is:

F3a-b-c-d. Megablock Series Fieldbus Connection Blocks.

a = Number of Ports: 04, 08, 12 or 16.

b = Option for over-voltage protection: V2 or blank.

c = Option for a built in terminator: -T or blank.

d = Option for terminal connection: -PC, -PD or blank.

SPECIFIC CONDITIONS OF USE: YES as shown below:
Ex nA IIC T4 Gc, Ex ec IIC T4 Gc, Ex nA [ic] IIC T4 Gc and Ex ec [ic] IIC T4 Gc:

1. The apparatus is to be installed within an enclosure which maintains a minimum ingress protection rating of IP54 in accodance with IEC 60079-0 and IEC 60079-15 as applicable.

2. For level of protection 'nA' provisions shall be made externally to the apparatus to prevent the rated input being exceeded by transient disturbances of more than 140% of the rated voltage.

3. For level of protection 'nA' the apparatus shall only be installed in an area of at least pollution degree 2, as defined in IEC 60664-1.

Ex ic IIC T4 Gc FISCO:

1. The apparatus is to be installed in an enclosure which maintains a minimum ingress protection rating of IP54 and meets the enclosure requirements of IEC 60079-0 and IEC 60079-11.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Change to intrinsically safe critical component.