CERTIFICATE OF CONFORMITY

FM Approvals

1. **HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS**

2. **Certificate No:** **FM17CA0041X**

3. **Equipment:**
   (Type Reference and Name) **F304, F308, F312 and F316 Fieldbus Megablocks**

4. **Name of Listing Company:** **Relcom Inc**

5. **Address of Listing Company:** **2221 Yew St, Forest Grove, Oregon 97116, United States of America**

6. The examination and test results are recorded in confidential report number:

   3041271 dated 15th September 2011

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

   CSA C22.2 No. 213:2021, CSA C22.2 No. 60079-0:2019, CSA C22.2 No. 60079-7:2021, CSA C22.2 No. 60079-11:2014, CSA C22.2 No. 60079-15:2002, CSA C22.2 No. 60079-15:2016, CSA C22.2 No. 61010-1:2012

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

    See Annex

11. The marking of the equipment shall include:

    See Annex

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

9 September 2024
Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA
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12. **Description of Equipment:**

Fieldbus systems. They allow connection of up to sixteen (16) devices to a Fieldbus segment. Each product consists of one (1) 2-entry trunk port and up to sixteen (16) spur ports. Each spur port includes a current limiting "SpurGuard" circuit. The SpurGuards prevent a short on the spur cable or a short in the attached device from disabling the entire Fieldbus segment. Each F304, F308, F312 and F316 includes an F97 Fieldbus terminator to be installed if needed. F3xx Megablock versions with a –T suffix (i.e. F304—xx-T-xx) include a built-in terminator. Pluggable screw terminal connectors are standard on F3xx Megablocks. All pluggable screw terminal connectors are replaced by cage clamp style connectors by adding –PC to the part number (i.e. F304-xx-T-PC). All pluggable screw terminal connectors except the trunk connector are replaced by insulation displacement style connectors by adding –PD to the part number (i.e. F304-xx-T-PD). The F3xx Megablocks Terminator are intended for installation in an IP54 enclosure. On version without Nonincendive output connections the Overvoltage Protection Circuit is not populated indicated by –V2 (i.e. F304-V2-T-PD).

See Annex for additional descriptions.

13. **Specific Conditions of Use:**

1. The apparatus shall be installed within an enclosure which meets a minimum ingress protection of IP54 in accordance with CSA C22.2 No. 60079-0 and CSA C22.2 No. 60079-15 as applicable.

2. The apparatus shall be installed in an enclosure meeting the requirements of CSA Standard C22.2 No. 61010-1.

3. The apparatus shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.

4. For Level of Protection 'nA' provisions shall be made externally to the F304, F308, F312 and F316 Megablocks to prevent the rated input from exceeding by transient disturbances of more than 140% of the rated voltage.

5. For Level of Protection 'nA' the apparatus shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.

14. **Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

15. **Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

16. **Certificate History**

Details of the supplements to this certificate are described below:

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SCHEDULE

Canadian Certificate of Conformity No: FM17CA0041X

Date	Description
15 September 2011	Original Issue.
2 March 2017	Supplement 2: Report Reference: – RR208629 dated 2nd March 2017. Description of the Change: Change to model code structure to allow configuration without over-voltage protection circuitry.
2 October 2019	Supplement 3: Report Reference: - RR219909 dated 2nd October 2019. Description of the Change: Addition of protection level “ec” and “[ic]”. Addition of standards to cover these new protection levels and update CSA C22.2 No. 60079-0 to 2019 Edition.
10 March 2020	Supplement 4: Report Reference: - RR222479 dated 10th March 2020. Description of the Change: Remove level of protection “[ic]” from drawing and label for Megablocks without over-voltage protection which as added in error under Suppment 3.
19 December 2022	Supplement 5: Report Reference: - RR235228 dated 19th December 2022. Description of the Change: Update certificate to latest template, , update Specific Condition of Use, update part of CSA C22.2 No. 60079-7 assessment and update to drawings.
9 September 2024	Supplement 6: Report Reference: PR469774 dated 9 September 2024. Description of the Change(s): Change to intrinsically safe critical component, updates CSA C22.2 No. 213 to latest editions and update certificate to new template.

ANNEX

Model F3a-b-c Fieldbus Megablocks

Equipment Ratings:

Nonincendive for use in Class I, Division 2, Groups A, B, C and D, Temperature Class T4 Ta = -50°C to +70°C with Nonincendive Field Wiring in accordance with drawing 502-484; Zone 2, Ex nA [nL] IIC T4 Gc Ta = -50°C to +70°C in accordance with drawing 502-484, Zone 2 Ex ec [ic] IIC T4 Gc Ta = -50°C to +70°C in accordance with drawing 502-484 hazardous locations.

Markings:

NI CL I DIV 2 GP ABCD T4
Zone 2 Ex nA [nL] IIC T4 Gc
Zone 2, Ex ec [ic] IIC T4 Gc
-50°C≤Tamb≤70°C

Description of Equipment:

F3a-b-c. Megablock Series Fieldbus Connection Blocks with over-voltage protection.
a = Number of Spurs = 04, 08, 12 or 16.
b = Option for a built-in terminator = -T or blank.
c = Option for terminal connection: -PC, -PD or blank.
Nonincendive Field Wiring/Entity Parameters, Groups C and D (IIB, IIA) only:
V_{max}= 32V, C_i= 0, L_i= 0
V_{oc}= 32V, I_{SC} = 56mA, P_o=1.792W, C_a= 80nF, La = 0.26mH
Nonincendive Field Wiring Parameters/Entity, Groups A and B (IIC):
V_{max}= 24V, C_i= 0, L_i= 0
V_{oc}= 24V, I_{SC} = 56mA, Po = 1.344W, C_a= 80nF, La = 0.15mH

Model F3a-V2-b-c Megablox Series Fieldbus

Equipment Ratings:

Nonincendive for use in Class I, Division 2, Groups A, B, C and D, Temperature Class T4 Ta = -50°C to +70°C with Nonincendive Field Wiring in accordance with drawing 502-484; Zone 2, Ex nA [nL] IIC T4 Gc Ta = -50°C to +70°C in accordance with drawing 502-484, Zone 2 Ex ec IIC T4 Gc Ta = -50°C to +70°C hazardous locations.

Markings:

NI CL I DIV 2 GP ABCD T4

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Zone 2, Ex nA [nL] IIC T4 Gc
Zone 2, Ex ec IIC T4 Gc
-50°C≤Tamb≤70°C

Description of Equipment:

F3a-V2-b-c. Megablock Series Fieldbus Connection Blocks without over-voltage protection.
a = Number of Spurs = 04, 08, 12 or 16.
b = Option for a built-in terminator = -T or blank.
c = Option for terminal connection: -PC, -PD or blank.
Nonincendive Field Wiring Parameters, Groups C and D (IIB, IIA) only:
V_{max}= 32V, C_i= 0, L_i= 0
V_{oc}= 32V, I_{SC} = 56mA, P_o=1.792W, C_a= 80nF, La = 0.26mH
Nonincendive Field Wiring Parameters, Groups A and B (IIC):
V_{max}= 24V, C_i= 0, L_i= 0
V_{oc}= 24V, I_{SC} = 56mA, P_o= 1.344W, C_a= 80nF, La = 0.15mH

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