

CERTIFICATE OF CONFORMITY



- HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS**
- Certificate No:** FM17CA0041X
- Equipment:** F304, F308, F312 and F316 Fieldbus Megablocks
(Type Reference and Name) Fieldbus Megablocks
- Name of Listing Company:** Relcom, Inc.
- Address of Listing Company:** 2221 Yew Street
Forest Grove, OR 97116
USA
- The examination and test results are recorded in confidential report number:

3041271 dated 15th September 2011
- 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-M:1987 CSA-C22.2 No. 61010-1:2004,
CSA-C22.2 No. 60079-0:2019, CSA-C22.2 No. 60079-7:2018, CSA C22.2 No. 60079-11:2014,
CSA-C22.2 No. 60079-15:2002, CSA C22.2 No. 60079-15:2016
- 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.
- 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.
- 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, Zone 2 Ex ec IIC T4 Gc Ta = -50°C to +70°C hazardous locations.

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

19 December 2022

Date

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

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

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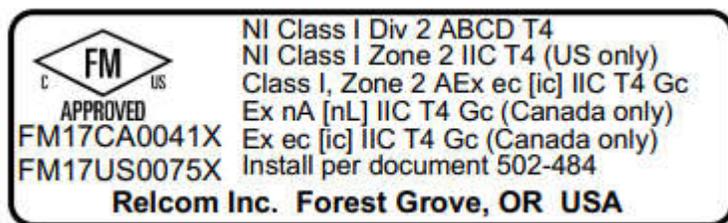


SCHEDULE

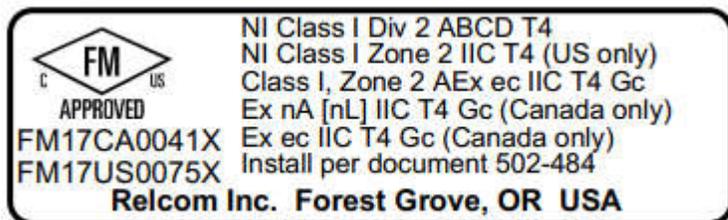
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11. The marking of the equipment shall include:

Marking for F3xx with Overvoltage Protection circuit:



Marking for F3xx-V2 without Overvoltage Protection circuit:



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).

The model code structure for the F304, F308, F312 and F316 and applicable Nonincendive Field wiring parameters are as follows:

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

- a = Number of Surs: 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.

Nonincendive Field Wiring Parameters Group C and D (IIB, IIA) only:

V_{max} = 32V, C_i = 0, L_i = 0

V_{oc} = 32V, I_o = 56mA, P_o = 1.792W, C_a = 80nF, L_a = 0.26mH

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Noncendive Field Wiring Parameters Group A and B (IIC):
Vmax = 24V, Ci = 0, Li = 0
Voc = 24V, Io = 56mA, Po = 1.344W, Ca = 80nF, La = 0.15mH

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:

Date	Description
15 th September 2011	Original Issue.
2 nd March 2017	<u>Supplement 2:</u> Report Reference: – RR208629 dated 2 nd March 2017. Description of the Change: Change to model code structure to allow configuration without over-voltage protection circuitry.
2 nd October 2019	<u>Supplement 3:</u> Report Reference: - RR219909 dated 2 nd 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 th March 2020	<u>Supplement 4:</u> Report Reference: - RR222479 dated 10 th 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 Supplement 3.

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19 th December 2022	Supplement 5: Report Reference: - RR235228 dated 19 th 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.
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