

CERTIFICATE OF CONFORMITY



- HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
- Certificate No:** FM18US0245X
- Equipment:** Series JM
(Type Reference and Name) Junction Module
- Name of Listing Company:** StoneL
- Address of Listing Company:** 26271 US Hwy 59
Fergus Falls MN 56537
USA
- The examination and test results are recorded in confidential report number:
3009487 dated 30th May 2002
- FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:
FM Class 3600:2018, FM Class 3611:2018, FM Class 3615:2018, FM Class 3616:2011, FM Class 3810:2005, ANSI/NEMA 250:1991
- 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:
(see next page)

Certificate issued by:



J.E. Marquedant
VP, Manager, Electrical Systems

19 September 2018

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

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

SCHEDULE



US Certificate Of Conformity No: FM18US0245X

Junction Module, Excluding JMM93, (Enclosure Option = B or E)

Explosionproof for Class I, Division 1, Groups B, C, & D; T5 Ta = 80 °C; Dust-ignitionproof for Class II, Division 1, Groups E, F, & G; T5 Ta = 80 °C; Non-incendive for Class I, Division 2, Groups A, B, C, & D, T5 Ta = 80°C; Class II, Division 2, Groups F & G, T5 Ta = 80 °C; indoor and outdoor (Enclosure Type 4, 4X, 6) hazardous (classified) locations.

When the Solenoid option = 2B, 2C, 2E, 2F, 2N, 2P, 2H, 2J, 2L, 2M, 2Q, 2R, 3A, or 3G); the product is only rated non-incendive for Class I, Division 2, Groups A, B, C, & D, T4 Ta = -10 °C to 50 °C; Class II, Division 2, Groups F & G, T4 Ta = -10 °C to 50 °C; indoor and outdoor (Enclosure Type 4, 4X, 6) hazardous (classified) locations.

Junction Module, Excluding JMM93, (Enclosure Option = C or P)

Non-incendive for Class I, Division 2, Groups A, B, C, & D, T5 Ta = 80 °C; Class II, Division 2, Groups F & G, T5 Ta = 80 °C; indoor and outdoor (NEMA Type 4, 4X, 6) hazardous (classified) locations.

Junction Module JMM93, (Enclosure Option = B or E)

Explosionproof for Class I, Division 1, Groups B, C, & D; T5 Ta = 80 °C; Dust-Ignitionproof for Class II, Division 1, Groups E, F, & G; T5 Ta = 80 °C; Non-incendive for Class I, Division 2, Groups A, B, C, & D, T5 Ta = 80 °C; Class II, Division 2, Groups F & G, T5 Ta = 80 °C; Intrinsically Safe (FISCO) for Class I / II / III, Division 1, Groups A, B, C, D, E, F, & G, T5 Ta = 80 °C when installed per Control Drawing 105153; indoor and outdoor (Type 4, 4X, 6) hazardous (classified) locations.

When the Solenoid option = 3A or 3G, the product is only rated non-incendive for Class I, Division 2, Groups A, B, C, & D, T4 Ta = -10 °C to 50 °C; Class II, Division 2, Groups F & G, T4 Ta = -10 °C to 50 °C; indoor and outdoor (Enclosure Type 4, 4X, 6) hazardous (classified) locations.

Junction Module JMM93, (Enclosure Option = C or P)

Suitable for Class I, Division 2, Groups A, B, C, & D, T5 Ta = 80 °C; Class II, Division 2, Groups F & G, T5 Ta = 80 °C; Intrinsically Safe (FISCO) for Class I / II / III, Division 1, Groups A, B, C, D, E, F, & G, T5 Ta = 80°C when installed per Control Drawing 105153; indoor and outdoor (Type 4, 4X, 6) hazardous (classified) locations.

11. The marking of the equipment shall include:

See Section 10, Equipment ratings

12. **Description of Equipment:**

The Series JM Junction Module provides a robust enclosure containing bus networking components and other bus wiring connection applications. The enclosure base is of cast aluminum and in the standard configuration provides four 1/2-14 NPT conduit entries. Alternatively, the 1/2-14 NPT conduit entries may be replaced by four M20 X 1.5 threaded entries. When option Junction = Z is specified, one of the entries includes integral leads with a factory installed conduit seal.

Either an aluminum cover or a polymeric cover may be supplied. The ratings are different as shown in the rating section preceding.

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

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

SCHEDULE



Member of the FM Global Group

US Certificate Of Conformity No: FM18US0245X

A series of internal function modules may be installed in the enclosure to facilitate the arrangement of the bus network.

JMabcd-e. Junction Module.

FM18US0245X

XP* / I / 1 / BCD / T5 Ta = 80 °C

DIP* / II / 1 / EFG / Ta = 80 °C

NI / I / 2 / ABCD / T5* Ta = 80 °C

DIP / II / 2 / FG / Ta = 80 °C; Type 4, 4X, 6

*When b = 2B, 2C, 2E, 2F, 2N, 2P, 2H, 2J, 2L, 2M, 2Q, 2R, 3A, or 3G; T4 Ta = -10 °C to 50 °C and XP/DIP do not apply.

a = Function 000, B12, T00, T01, T03, T05, T07, P01, P02, P03, D00, D11, D12, D13, S01, S02, S03, M92, M94, M96, M97, R92, R95, R96, I92, I95, I96, X00, X01, X02, X05, or X06.

b = Solenoid 11, 2B, 2C, 2E, 2F, 2N, 2P, 2H, 2J, 2L, 2M, 2Q, 2R, 3A, or 3G.

c = Enclosure B or E.

d = Junction 3, 6, M, N, or Z.

e = "Special Unit Digits" do not affect the integrity of the housing, the electrical safety, or the title plate.

JMabcd- e. Junction Module.

FM18US0245X

NI / I / 2 / ABCD / T5* Ta = 80 °C

DIP / II / 2 / FG / Ta = 80 °C; Type 4, 4X, 6

*When b = 2B, 2C, 2E, 2F, 2N, 2P, 2H, 2J, 2L, 2M, 2Q, 2R, 3A, or 3G; T4 Ta = -10 °C to 50 °C.

a = Function 000, B12, T00, T01, T03, T05, T07, P01, P02, P03, D00, D11, D12, D13, S01, S02, S03, M92, M94, M96, M97, R92, R95, R96, I92, I95, I96, X00, X01, X02, X05 or X06.

b = Solenoid 11, 2B, 2C, 2E, 2F, 2N, 2P, 2H, 2J, 2L, 2M, 2Q, 2R, 3A, or 3G.

c = Enclosure C or P.

d = Junction 3, 6, M, N, or Z.

e = "Special Unit Digits" do not affect the integrity of the housing, the electrical safety, or the title plate.

Specific Conditions of Use:

1. Part of the enclosure is constructed from plastic. To prevent the risk of electrostatic sparking the plastic surface should only be cleaned only with a damp cloth.

JMM93bcd- e. Junction Module.

FM18US0245X

XP* / I / 1 / BCD / T5 Ta = 80 °C;

DIP* / II / 1 / EFG / T5 Ta = 80 °C;

IS / I,II,III / 1 / ABCDEFG / T5* Ta = 80 °C - 105153; FISCO;

NI / I / 2 / ABCD / T5* Ta = 80°C;

S / II / 2 / FG / T5* Ta = 80°C; Type 4, 4X, 6

*When b = 3A or 3G; T4 Ta = -10 °C to 50 °C and XP/DIP do not apply.

FISCO Parameters:

U_i = 30 V dc, I_i = 380 mA, P_i = 5.32 W, C_i = 0, L_i = 0.

b = Solenoid 11, 3A, or 3G.

c = Enclosure B or E.

d = Junction 3, N, 6, M, or Z.

e = "Special Unit Digits" do not affect the integrity of the housing, the electrical safety, or the title plate.

Specific Conditions of Use:

1. Part of the enclosure is constructed from plastic. To prevent the risk of electrostatic sparking the plastic surface should only be cleaned only with a damp cloth.

JMM93bcd- e. Junction Module.

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

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

SCHEDULE



Member of the FM Global Group

US Certificate Of Conformity No: FM18US0245X

FM18US0245X

IS / I,II,III / 1 / ABCDEFG / T5* Ta = 80 °C - 105153; FISCO;

NI / I / 2 / ABCD / T5* Ta = 80 °C;

S / II / 2 / FG / T5* Ta = 80 °C; Type 4, 4X, 6

*When b = 3A or 3G; T4 Ta = -10 °C to 50 °C.

FISCO Parameters:

U_i = 30 V dc, I_i = 380 mA, P_i = 5.32 W, C_i = 0, L_i = 0.

b = Solenoid 11, 3A, or 3G.

c = Enclosure C or P

d = Junction 3, N, 6, M, or Z.

e = "Special Unit Digits" do not affect the integrity of the housing, the electrical safety, or the title plate.

Specific Conditions of Use:

1. Part of the enclosure is constructed from plastic. To prevent the risk of electrostatic sparking the plastic surface should only be cleaned only with a damp cloth.

JMa11cd-e. Junction Module.

FM18US0245X

XP / I / 1 / BCD / T5 Ta = -40 °C to 60 °C

DIP / II / 1 / EFG / T5 Ta = -40 °C to 60 °C

NI / I / 2 / ABCD / T5* Ta = -40 °C to 60 °C

S / II / 2 / FG / T5* Ta = -40 °C to 60 °C

Type 4, 4X, 6

a = Function X00, X01, or X06.

c = Enclosure B or E

d = Junction 3, N, 6, M, or Z.

e = "Special Unit Digits" do not affect the integrity of the housing, the electrical safety, or the title plate.

JMa11cd-e. Junction Module.

FM18US0245X

NI / I / 2 / ABCD / T5* Ta = -40 °C to 60 °C

S / II / 2 / FG / T5* Ta = -40 °C to 60 °C

Type 4, 4X, 6

a = Function X00, X01, or X06.

c = Enclosure C or P

d = Junction 3, N, 6, M, or Z.

e = "Special Unit Digits" do not affect the integrity of the housing, the electrical safety, or the title plate.

Specific Conditions of Use:

1. Part of the enclosure is constructed from plastic. To prevent the risk of electrostatic sparking the plastic surface should only be cleaned only with a damp cloth.

13. **Specific Conditions of Use:**

1. For Enclosure Options C or P, Part of the enclosure is constructed from plastic. To prevent the risk of electrostatic sparking the plastic surface should only be cleaned only with a damp cloth.

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

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

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

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com www.fmaprovals.com

SCHEDULE



Member of the FM Global Group

US Certificate Of Conformity No: FM18US0245X

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
30 th May 2002	Original Issue.
19 th September 2018	<u>Supplement 05:</u> Report Reference: – 3009487 – RR215326 dated 19 th September 2018. Description of the Change: Add instruction documents, Remove function codes B06 and M95, Remove labeling option S, update components, and add certificate number to label.

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

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com