



1 EU-TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective systems intended for use in Potentially
Explosive Atmospheres - Directive 2014/34/EU**

3 **EU-Type Examination Certificate No: FM18ATEX0078X**

4 **Equipment or protective system: Series JX Junction Module
(Type Reference and Name)**

5 **Name of Applicant: Neles USA Inc. dba StoneL**

6 **Address of Applicant: 26271 US Hwy 59,
Fergus Falls, MN 56537.
United States of America.**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8 FM Approvals Europe Ltd, notified body number 2809 in accordance with Article 17 of Directive 2014/34/EU of 26th February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

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

PR449666 dated 02nd January 2019

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-31:2014 and EN 60529:1991+A1:2000+A2:2013

10 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.

11 This EU-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include:



II 2 G Ex db IIC T5 Gb $-40\text{ °C} \leq T_a \leq +80\text{ °C} ‡$

II 2 D Ex tb IIIC T100 °C Db $-40\text{ °C} \leq T_a \leq +70\text{ °C} ‡$

‡ Function Modules X00, X01, & X06 are limited to +60 °C.

Damien McArdle

Damien McArdle
Certification Manager, FM Approvals Europe Ltd.

Issue date: 22nd December 2020

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

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SCHEDULE

to EU-Type Examination Certificate No. FM18ATEX0078X

13 Description of Equipment or Protective System:

The Series JX Junction Module provides a robust enclosure containing bus networking components and other bus wiring connection applications. Function modules include passive drop connector T__, Protected drop connectors, P__, Switched drop connectors S__, ASI Repeaters X__, Digital Bus modules M__, and relay modules R__ and I__.

The aluminum or stainless steel base provides female ½ NPT, ¾ NPT, or M20 threaded entries for field wiring. The O-Ring sealed cover can be aluminum or stainless steel.

The specific models described by this Certificate are as follows:

JXa11cdef. Junction Module.

a = Function module T02, T04, T06, T08, P02, P04, P06, P08, S02, S04, S06, S08, 000, B12, X00, X01, X02, X05, X06, M92, M93, M94, M96, M97, R92, R96, R97, I92, I96, or I97.

c = Enclosure R or T.

d = Junction 03, 06, 09, 0N, 0M, or 0T.

e = Branding A or M.

f = Options not affecting electrical or explosion safety (up to 5 alpha-numeric digits).

14 Specific Conditions of Use:

1. Consult the manufacturer if dimensional information on the flameproof joints is necessary.
2. The Series JX shall not be applied in an explosive dust atmosphere where high electrostatic charging processes are present that could result in propagating brush discharges. See CLC/TR 60079-32-1 for additional guidance.

15 Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

16 Test and Assessment Procedure and Conditions:

This EU-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Ltd's ATEX Certification Scheme.

17 Schedule Drawings

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

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SCHEDULE

to EU-Type Examination Certificate No. FM18ATEX0078X

18 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
14 January 2019	Original Issue.
22 nd December 2020	<u>Supplement 01:</u> Report Reference: PR449663-RR226052 dated 22 nd December 2020. Description of the Change: <ul style="list-style-type: none">• Certificate transferred from FM Approvals Ltd., Notified Body No. 1725, to FM Approvals Europe Ltd., Notified Body No. 2809.• Update of company name.• Minor updates to protected drop modules

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Blueprint Report

Neles USA Inc. dba StoneL (1000001486)

Class No IEC

Original Project I.D. PR449663

Certificate I.D. FM18ATEX0078X

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>	<u>Electronic Drawing</u>
000207	B	Model Description, JX Series, ATEX / IECEx Ex db Ex tb	RR226052	Yes (pdf)
105461	C	Installation Manual, IMO, JX Series	RR226052	Yes (pdf)
105462	A	Enclosure Information, JX Series	PR449666	Yes (pdf)
105463	A	Electrical Information, JX Series	PR449666	Yes (pdf)
105465	B	Product Marking, JX Series, ATEX / IECEx Ex db Ex tb	RR226052	Yes (pdf)
110027	A	Anodizing Specification, Quartz, Axiom, JX	PR449666	Yes (pdf)
110040	A	Paint Spec, JX Housing	PR449666	Yes (pdf)
110041	A	Material Spec, Leona 90G50	PR449666	Yes (pdf)
200043	E	SCHEMATIC, FF MOTHER BOARD 93	PR449666	Yes (pdf)
200044	F	SCHEMATIC, 93 94 FF C-MODULE, CPU/MAU PCB	PR449666	Yes (pdf)
200045	D	SCHEMATIC, FF ANALOG BOARD	PR449666	Yes (pdf)
200050	A	SCHEMATIC, AS-I DECOUPLER	PR449666	Yes (pdf)
200051	H	SCHEMATIC, ASI (96)	PR449666	Yes (pdf)
200054	D	SCHEMATIC, 94 FF C-MODULE, MOTHER	PR449666	Yes (pdf)
200058	A	SCHEMATIC, RELAY I/O MODULE	PR449666	Yes (pdf)
200059	A	SCHEMATIC, AS-I REPEATER, MOTHERBOARD	PR449666	Yes (pdf)
200067	A	SCHEMATIC, AS-I REPEATER, DAUGHTERBOARD	PR449666	Yes (pdf)
200186	A	SCHEMATIC, DEVICENET (92), MOTHER	PR449666	Yes (pdf)
200245	A	SCHEMATIC, JX FF/ASI PASSIVE	PR449666	Yes (pdf)
200247	C	SCHEMATIC, JX FF/ASI PROTECTED/SWITCHED	PR449666	Yes (pdf)
200262	A	SCHEMATIC, JX DEVICENET PASSIVE	PR449666	Yes (pdf)
200263	B	SCHEMATIC, JX DEVICENET PROTECTED/SWITCHED	PR449666	Yes (pdf)
407103	A	O-RING, 105MM ID X 2.5MM CS, BUNA-N	PR449666	Yes (pdf)
408988	A	PAN HEAD SCREW 8-32 PHILLIPS GREEN W/SQ TERMALOX WASHER	PR449666	Yes (pdf)
414178	C	BLOCK, TERMINAL, BLACK, 12 POLE	PR449666	Yes (pdf)
414758	B	HEADER, PLUGGABLE PCB, 5.08MM, 4 POINT	PR449666	Yes (pdf)
414759	B	HEADER, PLUGGABLE PCB, 5.08MM, 5 POINT	PR449666	Yes (pdf)
414760	B	HEADER, PLUGGABLE PCB, 5.08MM, 8 POINT	PR449666	Yes (pdf)
414761	B	HEADER, PLUGGABLE PCB, 5.08MM, 10 POINT	PR449666	Yes (pdf)
414762	A	TERMINAL BLOCK, PLUGGABLE PCB, VERT, 5.08MM, 3 PT.	PR449666	Yes (pdf)
414763	A	TERMINAL BLOCK, PLUGGABLE PCB, VERT, 5.08MM, 4 PT.	PR449666	Yes (pdf)
414764	A	TERMINAL BLOCK, PLUGGABLE PCB, VERT, 5.08MM, 5 PT.	PR449666	Yes (pdf)
414765	A	TERMINAL BLOCK, PLUGGABLE PCB, VERT, 5.08MM, 8 PT.	PR449666	Yes (pdf)
414766	A	TERMINAL BLOCK, PLUGGABLE PCB, VERT, 5.08MM, 10 PT.	PR449666	Yes (pdf)
414786	B	HEADER, PLUGGABLE PCB, 5.08MM, 6 POINT	PR449666	Yes (pdf)
414787	B	HEADER, PLUGGABLE PCB, 5.08MM, 7 POINT	PR449666	Yes (pdf)
414788	A	TERMINAL BLOCK, PLUGGABLE PCB, VERT, 5.08MM, 6 PT.	PR449666	Yes (pdf)
414789	A	TERMINAL BLOCK, PLUGGABLE PCB, VERT, 5.08MM, 7 PT.	PR449666	Yes (pdf)
418072	G	FOUNDATION FIELDBUS, UNPOPULATED BRD.	PR449666	Yes (pdf)
418073	S	FOUNDATION FIELDBUS, POPULATED BRD., MOTHER 93	PR449666	Yes (pdf)
418074	D	FF, CPU/MAU BOARD, UNPOPULATED	PR449666	Yes (pdf)
418075	N	FF, CPU/MAU BOARD, POPULATED	PR449666	Yes (pdf)
418076	D	ANALOG BOARD, FF, UNPOPULATED	PR449666	Yes (pdf)
418077	E	ANALOG BOARD, FF, POPULATED	PR449666	Yes (pdf)
418080	C	PCB, AS-I REPEATER, MOTHERBOARD, UNPOPULATED	PR449666	Yes (pdf)
418081	E	BOARD, AS-I REPEATER, MOTHERBOARD, POPULATED	PR449666	Yes (pdf)
418100	C	PCB, AS-I DECOUPLER, UNPOPULATED	PR449666	Yes (pdf)
418101	E	BOARD, AS-I DECOUPLER, POPULATED	PR449666	Yes (pdf)
418102	L	BOARD, ASI 96 DUAL MODULE, UNPOPULATED	PR449666	Yes (pdf)

418103	P	BOARD, ASI 96 DUAL MODULE, POPULATED	PR449666	Yes (pdf)
418120	G	BOARD, FOUNDATION FIELDBUS 94, MOTHER UNPOPULATED	PR449666	Yes (pdf)
418121	O	BOARD, FOUNDATION FIELDBUS 94, MOTHER, POPULATED	PR449666	Yes (pdf)
418132	A	BOARD, UNPOPULATED, RELAY	PR449666	Yes (pdf)
418135	E	RELAY BOARD, POPULATED	PR449666	Yes (pdf)
418180	B	PCB, AS-I REPEATER, DAUGHTERBOARD, UNPOPULATED	PR449666	Yes (pdf)
418181	F	BOARD, AS-I REPEATER, DAUGHTERBOARD, POPULATED	PR449666	Yes (pdf)
418378	B	BOARD, DEVICENET, UNPOPULATED	PR449666	Yes (pdf)
418379	E	BOARD, DEVICENET, POPULATED, DUAL MODULE	PR449666	Yes (pdf)
418431	A	PCB, JX T06 DEVICENET PASSIVE	PR449666	Yes (pdf)
418432	A	BOARD ASSEMBLY, JX T06 DEVICENET PASSIVE	PR449666	Yes (pdf)
418433	B	PCB, JX P06/S06 DEVICENET PROTECTED/SWITCHED	PR449666	Yes (pdf)
418434	C	BOARD ASSEMBLY, JX P06 DEVICENET PROTECTED	RR226052	Yes (pdf)
418435	C	BOARD ASSEMBLY, JX S06 DEVICENET SWITCHED PROTECTED	RR226052	Yes (pdf)
418457	A	PCB, JX T02/T04 FF/ASI PASSIVE	PR449666	Yes (pdf)
418458	A	BOARD ASSEMBLY, JX T02 ASI PASSIVE	PR449666	Yes (pdf)
418459	C	PCB, JX P02/P04/S02/S04 FF/ASI PROTECTED/SWITCHED	PR449666	Yes (pdf)
418460	C	BOARD ASSEMBLY, JX P02 ASI PROTECTED	PR449666	Yes (pdf)
418461	C	BOARD ASSEMBLY, JX S02 ASI SWITCHED PROTECTED	PR449666	Yes (pdf)
418462	A	BOARD ASSEMBLY, JX T04 FF PASSIVE	PR449666	Yes (pdf)
418486	C	BOARD ASSEMBLY, JX P04 FF PROTECTED	PR449666	Yes (pdf)
418487	C	BOARD ASSEMBLY, JX S04 FF SWITCHED PROTECTED	PR449666	Yes (pdf)
432029	A	URETHANE POTTING, CONATHANE EN-14 BLACK, MIXED	PR449666	Yes (pdf)
432038	B	URETHANE POTTING, EPIC RESINS D9970 CLEAR, MIXED	PR449666	Yes (pdf)