



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx FMG 15.0011X Issue No: 1 Certificate history:
Status: **Current** Issue No. 1 (2018-09-25)
Date of Issue: **2018-09-25** Issue No. 0 (2015-09-09)
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Applicant: **Moore Industries-International, Inc.**
16650 Schoenborn Street
North Hills, CA 91343-2816
United States of America
Equipment: **SPA2IS Site Programmable Alarm with Associated Intrinsically Safe Field Connections**
Optional accessory:
Type of Protection: **Non-sparking with Intrinsically Safe Field Connections**
Marking: Ex nA [ia Ga] IIC T4 Gc
[Ex ia Ga] IIC

Approved for issue on behalf of the IECEx
Certification Body:

J.E.Marquedant

Position:

VP, Manager - Electrical Systems

Signature:
(for printed version)

Date:

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

FM Approvals LLC
1151 Boston-Providence Turnpike
Norwood, MA 02062
United States of America





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Manufacturer: **Moore Industries-International, Inc.**
16650 Schoenborn Street
North Hills, CA 91343-2816
United States of America

Additional Manufacturing location(s):

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 apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"

*This Certificate **does not** indicate compliance with electrical 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 Report:

[US/FMG/ExTR15.0015/00](#)

Quality Assessment Report:

[GB/FME/QAR18.0009/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

SPA2IS/a/b/U/c [d] Site Programmable Alarm

Entity Parameters for Intrinsically Safe Field Connections: TPRG

Type	U_o (V)	I_o (mA)	P_o (mW)	C_o (mF)	L_o (mH)	L_o/R_o (mH/Ohm)
Value (Group IIC)	6.51	7.34	11.94	21.94	660.88	2.98
Value (Group IIB)	6.51	7.34	11.94	499.94	1982.63	11.92
Value (Group IIA)	6.51	7.34	11.94	999.94	5947.88	23.83

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The equipment shall be mounted in an enclosure providing a minimum degree of protection of IP54 in accordance with IEC 60079-15, and in a tool-secured enclosure which meets the requirements of IEC 60079-0 and IEC 60079-15.



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EQUIPMENT (continued):

Entity Parameters for Intrinsically Safe Field Connections : HLPRG

Type	U_o (V)	I_o (mA)	P_o (mW)	C_o (mF)	L_o (mH)	L_o/R_o (mH/Ohm)
Value (Group IIC)	29.05	107.41	727.83	0.01	3.09	0.05
Value (Group IIB)	29.05	107.41	727.83	0.54	9.25	0.20
Value (Group IIA)	29.05	107.41	727.83	1.89	27.74	0.40

a = Input: TPRG or HLPRG

b = Output: 2PRG or 4PRG

c = Options (one or more of the following): -AO, -FMEDA or Blank

d = Housing code: DIN or FLB



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Update Certificate with the latest QAR number