



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEx FMG 18.0023X** Page 1 of 5 Certificate history:
Status: **Current** Issue No: 1 Issue 0 (2018-11-13)
Date of Issue: 2021-04-18
Applicant: **Neles USA Inc. dba StoneL**
26271 US Hwy 59
Fergus Falls MN 56537
United States of America
Equipment: **Axiom AN and ANX Series Valve Position Monitor**
Optional accessory:
Type of Protection: **Intrinsic Safety "i"**
Marking: AN Series:
Ex ia IIC; T5 Ga Ta = -40°C to +80°C; IP66, IP67
Ex ia IIC; T6 Ga Ta = -40°C to +65°C; IP66, IP67
ANX Series:
Ex ia IIC; T5 Ga Ta = -40°C to +80°C; IP66
Ex ia IIC; T6 Ga Ta = -40°C to +65°C; IP66

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 www.iecex.com or use of this QR Code.



Certificate issued by:

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





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Date of issue: 2021-04-18

Issue No: 1

Manufacturer: **Neles USA Inc. dba StoneL**
26271 US Hwy 59
Fergus Falls MN 56537
United States of America

Additional
manufacturing
locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with 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 Reports:

[US/FMG/ExTR18.0020/00](#)

[US/FMG/ExTR18.0020/01](#)

Quality Assessment Report:

[GB/FME/QAR20.0004/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

AN45Sbcdefg-h. Valve Position Monitor

Ex ia IIC T5 Ga; IP66; Ta = -40°C to +80°C

Ex ia IIC T5 Ga; IP66; Ta = -40°C to +65°C

b = Solenoid, 9, 1 or 2

c = Override X, N, M, L, E, Y or G

d = Enclosure D, V, B, G, N, R, F or H

e = Conduit Entries 02, 05, 08, 09, 10, 11, 13, 15, 18, 19, 20, 21, 22

f = Visual Indication X, G, R, 1 or 2

g = Branding A or M

h = Options 'Special Unit Digits'

Note: 'Special Unit Digits' do not affect the integrity of the housing, the electrical safety, or the title plate

Entity Parameters when b = 9

Sensor: Ui = 22 Vdc, Ii = 120 mA, Pi = 0.4W, Ci = 3nF, Li = 0

Solenoid Junction Terminals: Ui = 28 Vdc, Ii = 120 mA, Ci = 0, Li = 0

Entity Parameters when b = 1 or 2

Sensor: Ui = 22 Vdc, Ii = 120 mA, Pi = 0.4W, Ci = 3nF, Li = 0

Solenoid: Ui = 28 Vdc, Ii = 120 mA, Pi = 0.84W, Ci = 3nF, Li = 0

ANX45Sbcdefg-h. Valve Position Monitor

Ex ia IIC T5 Ga; IP66; Ta = -40°C to +80°C

Ex ia IIC T5 Ga; IP66; Ta = -40°C to +65°C

b = Solenoid, 9, 1 or 2

c = Override X, N, M, L, E, Y or G

d = Enclosure V, G, R or H

e = Conduit Entries 02, 05, 08, 09

f = Visual Indication X, G, R, 1 or 2

g = Branding A or M

h = Options 'Special Unit Digits'

Note: 'Special Unit Digits' do not affect the integrity of the housing, the electrical safety, or the title plate

Entity Parameters when b = 9

Sensor: Ui = 22 Vdc, Ii = 120 mA, Pi = 0.4W, Ci = 3nF, Li = 0

Solenoid Junction Terminals: Ui = 28 Vdc, Ii = 120 mA, Ci = 0, Li = 0



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Entity Parameters when b = 1 or 2

Sensor: $U_i = 22 \text{ Vdc}$, $I_i = 120 \text{ mA}$, $P_i = 0.4\text{W}$, $C_i = 3\text{nF}$, $L_i = 0$

Solenoid: $U_i = 28 \text{ Vdc}$, $I_i = 120 \text{ mA}$, $P_i = 0.84\text{W}$, $C_i = 3\text{nF}$, $L_i = 0$

The IP66/IP67 rating is based upon the installation of the Turck minifast® and eurofast® male receptacles being mated with a Turck minifast or eurofast female cordset and the use of a tool secured Turck lokfast® guard.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1. Part of the enclosure may be constructed from plastic. To prevent the risk of electrostatic sparking the plastic surface should only be cleaned with a damp cloth.*
- 2. The apparatus enclosure may contain aluminum which is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.*



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Update of standards, consolidation of model codes, addition of ANX Series, Addition of Model codes for Chinese and Russian certifications, and 2 Solenoid option for both series. Change of Applicant name and update of QAR to Notified Body Number 2809.