

# CERTIFICATE OF CONFORMITY



- HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
- Certificate No:** FM17US0178
- Equipment:** Series AX  
**(Type Reference and Name)** Axiom Limit Switch
- Name of Listing Company:** Neles USA Inc. dba 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:  
  
3040591 dated 26<sup>th</sup> March 2012
- FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:  
  
FM Approvals Class 3600:2018, FM Approvals Class 3611:2004, FM Approvals Class 3615:2018, FM Approvals Class 3616:2011, FM Approvals Class 3810:2005, ANSI/NEMA 250:2003
- 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.

**Certificate issued by:**

J.E. Marquedant  
VP, Manager - Electrical Systems

6 November 2020

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://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](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)

# SCHEDULE



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10. Equipment Ratings:

Explosionproof for Class I, Division 1, Group BCD, T5...T4A  
Nonincendive for Class I, Division 2, Groups ABCD, T5...T4A  
Dust-Ignitionproof for Class II, Division 1, Groups EFG, T5...T4A  
Suitable for Class II, Division 2, Groups FG, T5...T4A

Ta = -18° C to +50° C (Standard),  
Ta = -10° C to +60° C if Solenoid b = "1A", or "2A"  
Ta = -40° C to +80° C (Extended);  
T4A if Function a = 92S, 96S, or 97S  
Type 4, 4X

11. The marking of the equipment shall include:

CI I, Div 1, Gp B,C,D; CI II, Div 1, Gp E,F,G  
CI I, Div 2, Gp ABCD; CI II, Div 2, Gp F,G  
Enclosure Type 4, 4X

12. **Description of Equipment:**

The Axiom Series AX Limit Switch is a valve communication and control device for quarter-turn pneumatic valves. Internally mounted pilot valves control a main flow spool valve to operate the pneumatic valve to which this product is intended to be attached. The control modules and up to two pilot valves are housed inside a single explosionproof compartment, also evaluated for Class II, Division 1. All pneumatic lines are provided with flame arrestors and the enclosure is vented through additional flame arrestors.

The internal electrical modules and solenoid valves are the same as those for Class I, Division 2, Groups ABCD, T5(or T4A) and Class II, Division 2, Groups FG, T5 (or T4A) for the Axiom Series AMI Limit Switch.

**Equipment Listing**

**AXabcdefgh-xxx. Axiom Limit Switch.**

XP / I / 1 / BCD / T5 Ta = -40°C to +80°C;  
DIP / II / 1 / EFG / T5 Ta = -40°C to +80°C;  
NI / I / 2 / ABCD / T5 Ta = -40°C to +80°C;  
S / II / 2 / FG / T5 Ta = -40°C to +80°C; Type 4, 4X

- a = Function 33S, 44S, 93S, or 94S.
- b = Solenoid 11, 1A, 1B, 1D, 1E, 1H, 2A, 2B, 2D, 2E, or 2H.
- c = Override X, N, M L, E, Y, or G.
- d = Temperature S or T.
- e = Enclosure A or S
- f - Conduit entries 02 or 05
- g = Visual Indicator R, G, X, 1, or 2.
- h = Branding A or M.
- xxx = Options 'Special Unit Digits'.

Note 1: 'Special Unit Digits' do not affect the integrity of the housing, the electrical safety, or the title plate.

Note 2: Temperature d = "S" -18°C ≤ Ta ≤ +50°C; or -10°C ≤ Ta ≤ +60 if Solenoid b = "1A" or "2A"

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XP / I / 1 / BCD / T4A Ta = -40°C to +80°C;  
DIP / II / 1 / EFG / T4A Ta = -40°C to +80°C;  
NI / I / 2 / ABCD / T4A Ta = -40°C to +80°C;  
S / II / 2 / FG / T4A Ta = -40°C to +80°C; Type 4, 4X

- a = Function 92S, 96S, or 97S.
- b = Solenoid 11, 1A, 1B, 1D, 1E, 1H, 2A, 2B, 2D, 2E, or 2H.
- c = Override X, N, M L, E, Y, or G.
- d = Temperature S or T.
- e = Enclosure A or S
- f - Conduit entries 02 or 05
- g = Visual Indicator R, G, X, 1, or 2.
- h = Branding A or M.
- xxx = Options 'Special Unit Digits'.

Note 1: 'Special Unit Digits' do not affect the integrity of the housing, the electrical safety, or the title plate.

**13. Specific Conditions of Use:**

None.

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

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

**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
26 <sup>th</sup> March 2012	Original Issue.
22 <sup>nd</sup> June 2017	<u>Supplement 01:</u> 3061079 dated 22 <sup>nd</sup> June 2017. Description of the Change: Various documentation updates for component changes. Labelling revisions. Manual consolidation. Drop option "95S" which is no longer available.
6 <sup>th</sup> November 2020	<u>Supplement 02:</u> Report Reference: RR225435 dated 6 <sup>th</sup> November 2020. Description of the Change: Update of company name. Minor documentation updates, as well as update of FM standards 3600 and 3615 to latest editions.

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