

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:** FM15ATEX0045X

4 **Equipment or protective system:** Series HX
(Type Reference and Name) Valve Position Sensor

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:

3054431 dated 30th October 2015

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 60079-11:2012, 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 1 G Ex ia IIC T5 Ta=-40°C to +80°C Ga
II 1 G Ex ia IIC T6 Ta=-40°C to +65°C Ga
II 1 D Ex ia IIIC T135 °C Ta=-40°C to +80°C Da

See Section 13 for specific applicability

See also FM15ATEX0038X for Series HX with Types of Protection "d" and "t".

Martin Crowe
Certification Manager, FM Approvals Europe Ltd

Issue date: 19th January 2022

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

FM Approvals Europe Ltd. One Georges Quay Plaza, Dublin. Ireland. D02 E440
T: +353 (0) 1761 4200 E-mail: atex@fmapprovals.com www.fmapprovals.com

F ATEX 020 (Dec/2020)



SCHEDULE



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to EU-Type Examination Certificate No. FM15ATEX0045X

13 Description of Equipment or Protective System:

General - The Hawkeye Series HX Magnetic Proximity Sensor is intended for point sensing in an explosive atmosphere. The sensing head triggers on a magnetic target at distances up to 4-6 mm, depending on target material.

Construction - The sensor body is machined from 316 stainless steel.

Field Wiring – For the Level of Protection “ia” models, an integral cable is provided with or without a cable gland, Cooper Capri Type ADE1N0502SSS.

Gaskets and Seals – Silicone seals in the cable gland, rated -60°C to +140°C, are employed to provide IP66 / IP68 (3 m / 48 h) ingress protection.

The specific models described by this Certificate are as follows:

HXaTcSe-xxx. Valve Position Sensor.

- a = Function 45.
- c = Junction 01, 02, or 03.
- e = Branding A or M.
- xxx = Options “Special Unit Digits”

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

14 Specific Conditions of Use:

- 1 The integral supply cable shall be mechanically protected and terminated in a suitable terminal or junction facility.
- 2 Using the box provided on the HX45T03 nameplate, the user shall permanently mark the Type of Protection chosen for the specific installation. Once the Type of Protection has been marked it shall not be changed.
- 3 The earth bonding connection shall be maintained by either the external mounting thread and/or the earthing wire of the integral cable.

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 Europe 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 Europe Ltd’s ATEX Certification Scheme.

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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.

18 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
03 rd November 2015	Original Issue.
27 th July 2017	Supplement 1: Report Reference: – RR210255 dated 18 th July 2017. Description of the Change: Certificate updated to EU format. Minor documentation changes.
11 th January 2021	Supplement 2: Report Reference: – RR226079 dated 08 th January 2021. Description of the Changes: 1. Name change from StoneL to Neles USA Inc. dba StoneL. 2. Minor Drawing updates. 3. Certificate transferred from FM Approvals Ltd., notified body no. 1725, to FM Approvals Europe Ltd., notified body no. 2809.
19 th January 2022	Supplement 3: Report Reference: – RR230739 dated 11 th January 2022. Description of the Changes: 1. Update EN 60079-0:2012:+A11:2013 to EN IEC 60079-0:2018. 2. Replace Stycast 2651 w/Catalyst 9 with Epic Resins D9970. 3. Change Ex ia IIC T100C to Ex ia IIIC T135C.

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FM Approvals Europe Ltd. One Georges Quay Plaza, Dublin. Ireland. D02 E440
T: +353 (0) 1761 4200 E-mail: atex@fmaprovals.com www.fmaprovals.com

Blueprint Report

Neles USA Inc. dba StoneL (1000001486)

Class No 3615

Original Project I.D. 3054432

Certificate I.D. FM15ATEX0045X

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>
000190	B	Model Description, Hawkeye, HX series, ATEX-IECEX Ex ia	RR226079
105342	B	Electrical Information, Hawkeye, HX series	RR230739
105347	A	Enclosure Information, Hawkeye HX series	3054431
105348	C	IMO - HX series, Installation Instructions	RR230739
105391	C	Product Marking, Hawkeye, HX Series ATEX-IECEX	RR230739
200182	E	Schematic, HX Sensor	3054431
200226	C	Schematic, HX 45 Namur	3054431
417318	A	Cable, Bulk, 18 AWG 3 Conductor Blue, Brown, Green	3054431
418373	E	PCB, HX Sensor Unpopulated	3054431
418374	E	PCB, HX Sensor Populated	3054431
418425	C	PCB, HX 45 Namur Unpopulated	3054431
418426	C	PCB, HX 45 Namur Populated	3054431
432038	B	Urethane potting, Epic Resins D9970 clear, mixed	RR210255