



# 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: FM10ATEX0035**

4 **Equipment or protective system: HK40 Solid State Proximity Sensor  
(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 26<sup>th</sup> 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:

3040158EC dated 29<sup>th</sup> September 2010

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 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 1 G Ex ia IIC T5 Ga Ta= -40°C to 80°C

*Damien McArdle*

**Damien Mc Ardle**  
**Certification Manager, FM Approvals Europe Ltd.**

Issue date: 28<sup>th</sup> January 2021

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

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# SCHEDULE

to EU-Type Examination Certificate No. FM10ATEX0035

## 13 Description of Equipment or Protective System:

The HK40 Solid State Proximity Sensor provides a solid state switch and LED indication in response to the proximity of a metal target. The Namur proximity sensor is powered by voltages from 5-25 Vdc. For intrinsically safe installations, energy is limited to the sensor by intrinsic safety barriers. The stainless steel, polycarbonate-tipped enclosure fits within an envelope measuring 3.5 x 1 x 1.2 inches (89 x 25 x 31 mm). Access to the field wiring is by way of discrete wires which extend through a single 1/2 inch NPT conduit opening or by a 3 pin connector (in stainless steel). The sensors are encapsulated in urethane potting. The specified operating temperature range for equipment is -40°C to 80°C. The enclosure is rated as IP67.

### ***HK407aSb-c. Solid State Proximity Sensor.***

Energy Limitation Parameters:

$U_i = 22V$ ,  $I_i = 120mA$ ,  $P_i = 2.0W$ ,  $C_i = 98nF$ ,  $L_i = 1.56mH$

a= Conduit: 7 or 8

b= Indicator: R, G, E or B

c= Options: 1-5 alpha or numeric digits for special and marketing identification

## 14 Specific Conditions of Use:

None

## 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.

## 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:

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# SCHEDULE



Member of the FM Global Group

to EU-Type Examination Certificate No. FM10ATEX0035

Date	Description
30 <sup>th</sup> September 2010	Original Issue.
21 <sup>st</sup> December 2012	<u>Supplement 1:</u> Report Reference: - 3040158rev120828 dated 18 <sup>th</sup> December 2012. Description of the Change: Typo correction of revision levels of controlled documents in original report and CDL.
04 <sup>th</sup> June 2012	<u>Supplement 2:</u> Report Reference: 3040158rev130506 dated 28 <sup>th</sup> May 2013. Description of the Change: Change to model code structure adding Chinese Visual Indicator digits. Minor documentation changes.
28 <sup>th</sup> August 2014	<u>Supplement 3:</u> Report Reference: 3048434 dated 25 <sup>th</sup> August 2014. Description of the Change: Update the certificate to latest editions of EN standards.
11 <sup>th</sup> December 2015	<u>Supplement 4:</u> Report Reference: RR203248 dated 9 <sup>th</sup> December 2015. Description of the Change: Drawing updates and addition of "Ga" to markings.
28 <sup>th</sup> January 2021	<u>Supplement 5:</u> Report Reference: RR226072 dated 26 <sup>th</sup> January 2021. Description of the Change: Company name change from Stonel. Standard updates: EN 60079-26:2007 removed, EN 60079-0 updated from 2012 +A1:2013, A2:2013 added to EN 60529. Certificate transferred from FM Approvals Ltd.

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# Blueprint Report

**Neles USA Inc. dba StoneL (1000001486)**

**Class No 3610**

**Original Project I.D. 3040158**

**Certificate I.D. FM10ATEX0035**

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>
000162	B	MODEL DESCRIPTION, Hawkeye, ATEX Ex ia	5/6/13
105005	F	HAWKEYE Installation & Adjusting Instructions	RR226072
105285	D	APPROVALS DRAWING, Certified, Hawkeye, HK, Ex ia	RR226072
200140	A	SCHEMATIC, HAWKEYE, NAMUR	3040158
418301	B	BOARD, UNPOPULATED, HAWKEYE, NAMUR	RR203248
418302	I	BOARD, POPULATED, HAWKEYE, NAMUR, RED	RR226072
418303	I	BOARD, POPULATED, HAWKEYE, NAMUR, GREEN	RR226072
432029	A	URETHANE POTTING, Conathane EN-14, Mixed	3040158
434158	A	CONNECTOR, Hawkeye Insert, W/Leads	3040158