1 EC-TYPE EXAMINATION CERTIFICATE $\langle \Sigma_{\Upsilon} \rangle$							
2	Equipment or Protective systems intended for use in Potentially						
	Explosive Atmospheres - Directive 94/9/EC						
3	EC-Type Examination Certificate No:	FM10ATEX0035					
4	Equipment or protective system: (Type Reference and Name)	HK40 Solid State Proximity Sensor					
5	Name of Applicant:	StoneL					
6	Address of Applicant:	26271 US Hwy 59 Fergus Falls, MN 56537, USA					
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 Ltd, notified body number 1725 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, 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:						
	3040158	BEC dated 29 th 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 60079-0:2012; EN 60079-1	1:2012; EN 60079-26:2007; EN 60529:1991 + A1:2000					
10	If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.						
11	This EC-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. 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 protectiv	e system shall include:					
II 1 G Ex ia IIC T5 Ga Ta= -40°C to 80°C IP67							
cn=Mick Gower, o=FM Approvals, ou, amail=mick cower@fmapprovals							
Mick Gower email=mick.gower@imapprovals. org.eGB 2015.12.11 14:42:57 Z Mick Gower control of the second							
Issue date: 11 th December 2015							
THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE							
FM Approvals Ltd. 1 Windsor Dials, Windsor, Berkshire, UK. SL4 1RS T: +44 (0) 1753 750 000 F: +44 (0) 1753 868 700 E-mail: <u>atex@fmapprovals.com</u> <u>www.fmapprovals.com</u>							

F ATEX 020 (May/12)



SCHEDULE

to EC-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 $3.5 \times 1 \times 1.2$ inches (89 x 25 x 31 mm). Access to the field wiring is by way of discrete wires which extend through a single1/2 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: $U_i = 22V$, $I_i = 120$ mA, $P_i = 2.0W$, $C_i = 98$ nF, $L_i = 1.56$ mH

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 Special Conditions for Safe 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 EC-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 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 Ltd's ATEX Certification Scheme.

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SCHEDULE

to EC-Type Examination Certificate No. FM10ATEX0035

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		
30 th September 2010	Original Issue.		
21 st December 2012	Supplement 1: Report Reference: - 3040158rev120828 dated 18 th December 2012 Description of the Change: Typo correction of revision levels of controlled documents in original report and CDL.		
04 th June 2012	Supplement 2: Report Reference: 3040158rev130506 dated 28 th May 2013 Description of the Change: Change to model code structure adding Chinese Visual Indicator digits. Minor documentation changes.		
28th August 2014	Supplement 3: Report Reference: 3048434 dated 25th August 2014 Description of the Change: Update the certificate to latest editions of EN standards.		
11 th December 2015	Supplement 4: Report Reference: RR203248 dated 9 th December 2015 Description of the Change: Drawing updates and addition of "Ga" to markings.		

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Blueprint Report

StoneL Corporation (1000001486)

Class No 3610

Original Project I.D. 3040158 Certificate I.D. FM10ATEX0035

Certificate I.D. FM10A1EX0035				
Drawing No.	Revision Level	Drawing Title	Last Report	Electronic Drawing
000162	В	MODEL DESCRIPTION, Hawkeye, ATEX Ex ia	5/6/13	Yes (pdf)
105005	E	HAWKEYE Installation & Adjusting Instructions	RR203248	Yes (pdf)
105280	В	HAWKEYE, Installation Manual Addendum	RR203248	Yes (pdf)
105285	С	APPROVALS DRAWING, Certified, Hawkeye, HK, Ex ia	RR203248	Yes (pdf)
200140	А	SCHEMATIC, HAWKEYE, NAMUR	3040158	Yes (pdf)
418301	В	BOARD, UNPOPULATED, HAWKEYE, NAMUR	RR203248	Yes (pdf)
418302	G	BOARD, POPULATED, HAWKEYE, NAMUR, RED	RR203248	Yes (pdf)
418303	G	BOARD, POPULATED, HAWKEYE, NAMUR, GREEN	RR203248	Yes (pdf)
432029	А	URETHANE POTTING, Conathane EN-14, Mixed	3040158	Yes (pdf)
434158	А	CONNECTOR, Hawkeye Insert, W/Leads	3040158	Yes (pdf)