			$\langle \mathbf{r}_{\mathbf{x}} \rangle$		
2]	Equipmen in F	t or Protective System intende Potentially Explosive Atmosph Directive 94/9/EC	eres		
3]	EC-Type Examination Certificate Number:	DEMKO 13 ATEX 1302999X Re	v. 0		
4]	Equipment or Protective System: Intrinsi	cally Safe Flashlight			
5]	Manufacturer: Daysun Industrial Co	rporation			
6]	Address: 1 <sup>st</sup> Floor, No. 6, Lane 110	Sec. 4, Hsi-Men Road, Tainan	704 Taiwan		
7]	This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.				
8]	UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in confidential report no. <b>13NK02999</b>				
[9]	Compliance with the Essential Health and S	Safety Requirements has been assured I	by compliance with:		
	EN 60079-0:2009	EN 60079-11:2007	EN 60079-26:2007		
10]	If the sign "X" is placed after the certificate safe use specified in the schedule to this ce	number, it indicates that the equipment or rtificate.	or protective system is subject to special conditions for		
11]	This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system 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 the certificate				
Ĩ	accordance to the Directive 94/9/EC. Furthe equipment or protective system. These are not covered by the certificate.	er requirements of the Directive apply to	the manufacturing process and supply of this		
12]	accordance to the Directive 94/9/EC. Furthe equipment or protective system. These are not covered by the certificate. The marking of the equipment or protective	er requirements of the Directive apply to system shall include the following:	the manufacturing process and supply of this		
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	accordance to the Directive 94/9/EC. Furthe equipment or protective system. These are not covered by the certificate. The marking of the equipment or protective	er requirements of the Directive apply to system shall include the following:			
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	accordance to the Directive 94/9/EC. Furthe equipment or protective system. These are not covered by the certificate. The marking of the equipment or protective	er requirements of the Directive apply to system shall include the following: (Ex) II 1 G Ex ia IIC T4			
	accordance to the Directive 94/9/EC. Furthe equipment or protective system. These are not covered by the certificate. The marking of the equipment or protective	er requirements of the Directive apply to system shall include the following: (Ex) II 1 G Ex ia IIC T4	the manufacturing process and supply of this		
	accordance to the Directive 94/9/EC. Furthe equipment or protective system. These are not covered by the certificate. The marking of the equipment or protective Marking of the equipment or protective Certification Manage Jan-Erik Storgaard	This is to certify that the sample(s) of the Proc and found in compliance with the Standard(s) Equipment Certification Program Requirement product sample(s) submitted by the Applicant sam Ie(s) provided were representative of ot Sp. Ice or other surveillance of the product. To childromity of all applicable Sta	the manufacturing process and supply of this		
	Accordance to the Directive 94/9/EC. Further equipment or protective system. These are not covered by the certificate. The marking of the equipment or protective Certification Manager Jan-Erik Storgaard	This is to certify that the sample(s) of the Proc and found in compliance with the Standard(s) Equipment Certification Program Requirement product sample(s) submitted by the Applicant sample(s) provided were representative of out Ser (ice or other surveillance of the product T chiformity of all products to all applicable Sta inary not be used, in whole or in part, in any of Date of issue: 2013-10-08	The manufacturing process and supply of this		

[13] [14]

[15]

# Schedule **EC-TYPE EXAMINATION CERTIFICATE No.** DEMKO 13 ATEX 1302999X Rev. 0 Report: 13NK02999

Description of Equipment or protective system Models SF-3, SF-5, SF-7, and SF-8 are intrinsically safe, portable, hand-held LED flashlights powered by four "AA" size, 1.5 V alkaline cells or by four "AA" size, 1.2 V NiMH cells connected in series. The models are available in three different color enclosures: yellow, orange, black. The following batteries were considered acceptable for use in the flashlights:

<u> </u>
NiMH types
Energizer model NH15-2300
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## Temperature range

The ambient temperature range is -20°C to +40°C.

#### Performance Testing

The optical radiation output of the apparatus with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 94/9/EC is not covered in this certificate.

#### Routine tests None.

# [16]

Report No. Project Report No.: 13NK02999 (Hazardous Location Testing)

Documen	ts:
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Description:	Drawing No.:	Rev. Level:	Date:
Mechanical BOM SF-3/SF-5/SF-8	BM1. SF-3 BOM-ME	1.0	2013-09-10
Mechanical BOM SF-7	BM2. SF-7 BOM-ME	1.0	2013-09-10
Electrical BOM SF-3/SF-5/SF-7/SF-8	B02.BOM-EE	1.0	2013-08-14
Schematics	E01. SF-3 Schematics	1.0	2013-05-11
LED Board Layout	E02. SF-3 LED1	1.0	2013-06-13
SW Board Layout	E03. SF-3 SW	1.0	2013-06-13
CON Board Layout	E04. SF-3 CON1	1.0	2013-06-13
Exploded View SF-3	EX01. SF-3 Explode	1.0	2013-06-13
Exploded View SF-5	EX01. SF-5 Explode	1.0	2013-06-13
Exploded View SF-7	EX01. SF-7 Explode	1.0	2013-06-13
Exploded View SF-8	EX01. SF-8 Explode	1.0	2013-06-13
Model Differences	EX02. Model Difference	1.0	2013-08-30
SF-3 Marking Label	L01. SF-3 Marking	1.0	2013-10-08
SF-5 Marking Label	L01. SF-5 Marking	1.0	2013-10-08
SF-7 Marking Label	L01. SF-7 Marking	1.0	2013-10-08
SF-8 Marking Label	L01. SF-8 Marking	1.0	2013-10-08
SF-3 Cap Lens	M01. SF-3 Cap Lens	1.0	2013-01-23
SF-3 Cap Rubber	M02. SF-3 Cap Rubber	1.0	2013-01-23
SF-5 Cap Rubber	M02. SF-5 Cap Rubber	1.0	2013-01-23
SF-7 Cap Rubber	M02. SF-7 Cap Rubber	1.0	2013-01-23
SF-8 Cap Rubber	M02. SF-8 Cap Rubber	1.0	2013-01-23
SF-3 Body	M03. SF-3 Body	1.0	2013-01-23
SF-5 Body	M03. SF-5 Body	1.0	2013-01-23
SF-7 Body	M03. SF-7 Body	1.0	2013-01-23
SF-8 Body	M03. SF-8 Body	1.0	2013-01-23
SF-3 Battery Insulator	M04. SF-3 Battery Insulator	1.0	2013-01-23
SF-3 Vent	M06. SF-3 Vent	1.0	2013-06-11

# Schedule EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 13 ATEX 1302999X Rev. 0 Report: 13NK02999

SF-3 O-Ring	M07. SF-3 O-Ring	1.0	2013-09-26
SF-3 Wire	M08. SF-3 Wire	1.0	2013-08-29
Lamp Assembly	EX03. Lamp Assembly	1.0	2013-08-30
Wire Connection	E05. SF-3 Wire Connection	1.0	2013-06-11
Lamp Upper Cap	M09. SF-3 Lamp Upper Cap	1.0	2013-10-02
Lamp Lower Cap	M05. SF-3 Lamp Lower Cap	1.1	2013-05-25
User Manual SF-3	UM01. SF-3	1.0	2013-09-26
User Manual SF-5	UM01. SF-5	1.0	2013-09-26
User Manual SF-7	UM01. SF-7	1.0	2013-09-26
User Manual SF-8	UM01. SF-8	1.0	2013-09-26

[17]

[18]

Special conditions for safe use:

Read manual before use.

- Do not open the enclosure in a hazardous area.
- Replace batteries only in non-hazardous areas.
  Use only battery type Energizer E91, Duracell MN1500, Rayovac 815, Ansmann 5015548, Ansmann 1502-0002, or Energizer NH15-2300.
- To reduce the risk of explosion do not mix new batteries with used batteries, or mix batteries from different manufacturers or from different types.
- Do not charge NiMH batteries in the flashlight. Charge the NiMH batteries according to the manufacturer's specification.
- The screw shall be secured tightly after opening and closing of the enclosure.

## Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Annex III of ATEX directive only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

### Additional information

The Models SF-3, SF-5, SF-7, and SF-8 have in addition passed the tests for Ingress Protection to IP 6X in accordance with EN60529: 1991/A1 2001.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

[13] [14]



We light up your business...

Dekodierliste der explosionsgeschützten Handleuchten von KSE-LIGHTS Decoding list of the explosion-proof hand lamps of KSE-LIGHTS

Die folgenden explosionsgeschützten Handleuchten von KSE-LIGHTS wurden in unabhängigen Laboren geprüft und erfüllen alle Anforderungen bezüglich folgender Normen:

The following explosion-proof hand lamps are tested by independent laboratories and fulfill all requirements concerning following norms:

EN 60079-0:2009 EN 60079-11:2007 EN 60079-26:2007 EN 60079-0:2012/A11:2013 EN 60079-11:2012 EN 60079-26:2015

Die Produkte wurden für übereinstimmend mit der Europäischen ATEX-Vorschrift 94/9/EC befunden. *The products have been found in compliance with the European ATEX Directive 94/9/EC.* 



Aussteller der EC-Baumusterprüfbescheinigung / Issuer of EC-type approval:

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark Sira Certification Service Unit 6, Hawarden Industrial Park, Hawarden, CH5 3US, United Kingdom

Produktbezeichnung Product No.	Produktbezeichnung in Zertifikat Product No. in certificate	Zertifikatsnummer Certificate No.	Prüflabor Testing laboratory	Prüfdatum Test date
KS-8800	e SF-07 (b	DEMKO 13 ATEX 1302999X	UL International DEMKO	08.10.2013
KS-8810	DS-08	DEMKO 13 ATEX 1205039X	UL International DEMKO	14.10.2013
KS-8900	SF-14	SIRA 15 ATEX 2166X	SIRA Certification Service	15.06.2015
KS-9800	DF-104	DEMKO 13 ATEX 1112940X	UL International DEMKO	27.06.2013
KS-9900	DS-19	DEMKO 16 ATEX 1661X	UL International DEMKO	03.06.2016

KSE-LIGHTS GmbH

Ennepetal, 04.12.2018

. 4 Unterschrift:

Nikolai Seel (Geschäftsleitung)

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