

# EC-TYPE EXAMINATION CERTIFICATE



## Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

- [3] EC-Type Examination Certificate Number: **DEMKO 13 ATEX 1205039X Rev. 0**
- [4] Equipment or Protective System: **Flashlight, Models DS-1, DS-8, and DS-10**
- [5] Manufacturer: **Daysun Industrial Corporation**
- [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. **12NK05039**
- [9] Compliance with the Essential Health and Safety Requirements has been assured 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 number, it indicates that the equipment or protective system 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 the certificate.
- [12] The marking of the equipment or protective system shall include the following:

II 1 G    Ex ia IIC T4 IP67

### Certification Manager

Jan-Erik Storgaard

### Notified Body

This is to certify that the sample(s) of the Product(s) described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. This certificate and test results obtained apply only to the product(s) submitted by the Applicant. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured products. UL has not established Follow-Up Service or other surveillance of the product. The Applicant/Manufacturer are solely and fully responsible for conformity of all products to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2013-10-14



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Tel. +45 44 85 65 65, [info.dk@ul.com](mailto:info.dk@ul.com), [www.ul.com](http://www.ul.com)

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**Schedule**  
**EC-TYPE EXAMINATION CERTIFICATE No.**  
**DEMKO 13 ATEX 1205039X Rev. 0**  
**Report: 12NK05039**

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Description of Equipment or protective system

Models DS-1, DS-8, and DS-10 are intrinsically safe hand-held, portable flashlights for use in Zone 0 Hazardous Locations when powered by four ZnMnO<sub>2</sub> size "AA", 1.5V alkaline cells connected in series.

The following batteries were considered acceptable for use in the flashlights:

Manufacturer	Part Number
Ansmann	1502-0002
Ansmann	5015548
Duracell	MN1500
Energizer	E91
Rayovac	815

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.

Temperature range

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

Routine tests

N/A.

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Report No.

Project Report No.: 12NK05039 (Hazardous Location Testing)

## Documents:

Description:	Drawing No.:	Rev. Level:	Date:
All Models Overview	A03. DS-1 Combination	1.0	2013-09-23
Model DS-1 Label	M19. DS-1 Marking	2.0	2013-10-09
Model DS-1 Label	M21. DS-1 Marking EU	2.0	2013-10-09
Model DS-8 Label	M19. DS-8 Marking	2.0	2013-10-09
Model DS-8 Label	M21. DS-8 Marking EU	1.2	2013-10-09
Model DS-10 Label	M19. DS-10 Marking	2.0	2013-10-09
Model DS-10 Label	M21. DS-10 Marking EU	2.0	2013-10-09
Model DS-1 Manual	-	1.0	-
Model DS-8 Manual	-	1.0	-
Model DS-10 Manual	-	1.0	-
Model DS-1 Exploded View	EX01. DS-1 Explosion	2.0	2013-08-29
Model DS-8 Exploded View	EX02. DS-8 Explosion	2.0	2013-08-29
Model DS-10 Exploded View	EX03. DS-10 Explosion	2.0	2013-08-29
Model DS-1 Body	M04. DS-1 Body	1.0	2012-11-16
Model DS-8 Body	M13. DS-8 Body	1.0	2012-11-16
Model DS-10 Body	M16. DS-10 Body	1.0	2012-11-16
Model DS-1 Cap Rubber	M06. DS-1 Cap Rubber	1.0	2012-11-16
Model DS-8 Cap Rubber	M14. DS-8 Cap Rubber	1.0	2012-11-16
Model DS-10 Cap Rubber	M17. DS-10 Cap Rubber	1.0	2012-11-16
Model DS-1 Push Button	M07. DS-1 Push Button	1.0	2012-11-16



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**Schedule**  
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Model DS-8 Push Button	M15. DS-8 Push Button	1.0	2012-11-16
Model DS-10 Push Button	M18. DS-10 Push Button	1.0	2012-11-16
Push Button Lock Mechanism	M08. DS-1 Lock	1.0	2012-11-16
Models DS-1, DS-8 and DS-10 Parts List	B01. DS-1 ME-BOM	2.0	2013-08-29
Venting Mechanism	M26. DS-1 Vent	1.0	2013-07-29
O-ring 2 mm	M25. DS-1 O-Ring	1.0	2013-07-29
O-ring 2.5 mm	M27. DS-1 O-Ring	1.0	2013-08-31
Partition Board	M24. DS-1 Partition Board	1.0	2013-07-29
Wire	M22. DS-1 Internal Wire	1.0	2013-07-29
Infallible Wire Connection	M23. DS-1 Wire Soldering	1.0	2013-07-29
Lamp Assembly	A01. DS-1 Lamp Assembly	1.0	2013-09-23
Lens Bracket	M10. DS-1 Lens Bracket	1.0	2012-11-16
Schematic	E01. DS-1 Schematics	2.0	2013-04-10
Electrical Bill of Material	B02. DS-1 BOM-EE	3.0	2013-08-29
CON2 Power Board	E02. DS-1 CON2	2.0	2013-07-29
CON1 Resistor Board	E02. DS-1 CON1	2.0	2013-07-29
LED Board	E02. DS-1 LED	2.0	2013-07-29

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**Special conditions for safe use:**

- Read manual before use.
- Use only battery types Energizer E91, Duracell MN1500, Rayovac 815, Ansmann 5015548, or Ansmann 1502-0002.
- Do not open or replace batteries in an area known to be Hazardous.
- Do not mix batteries from different manufacturers.
- Do not mix used batteries with new batteries.
- The screw shall be secured tightly after opening and closing the enclosure.

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**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 DS-1, DS-8, and DS-10 have in addition passed the tests for Ingress Protection to IP67 in accordance with EN60529: 1991/A1 2001.

The Registered Trademark,



, for Daysun Industrial Corporation may be used as the company identifier on the marking label.

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.





*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 <i>Product No.</i>	Produktbezeichnung in Zertifikat <i>Product No. in certificate</i>	Zertifikatsnummer <i>Certificate No.</i>	Prüflabor <i>Testing laboratory</i>	Prüfdatum <i>Test date</i>
KS-8800	SF-07	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

Unterschrift:

Nikolai Seel (Geschäftsleitung)