

EC-TYPE EXAMINATION CERTIFICATE



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

- [2] [3] EC-Type Examination Certificate Number: **DEMKO 14 ATEX 1310896X Rev.1**
- [4] Equipment or Protective System: **Intrinsically Safe Flashlight, Model 9415Z0**
- [5] Manufacturer: **Pelican Products Inc.**
- [6] Address: **23215 Early Avenue, Torrance, CA 90505 USA**
- [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. **1933390.403536**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013 EN 60079-11:2012 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:

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Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Equipment described herein ("Certified Equipment") 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 equipment sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured equipment. UL has not established Follow-Up Service or other surveillance of the equipment. The Manufacturer is solely and fully responsible for conformity of all equipment 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: 2014-08-29

Re-issued: 2014-09-26

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup,
Denmark Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com



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Schedule

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EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 14 ATEX 1310896X Rev. 1

Report: 1933390.403536

[15]

Description of Equipment or protective system:

The model 9415Z0 is an intrinsically safe, portable, hand-held LED flashlight powered by Pelican Battery Pack Cat. No. 9418Z0. Battery Pack replacement and recharging is only intended for non-hazardous areas.

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.

Electrical data:

Intrinsically safe specifications:

Battery Pack Cat. No. 9415Z0 utilizes only the following batteries:
Dison Part No. DS-MH500CM or Tenergy Part No. 10207

Routine tests:

N/A

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Report No.

Project Report No.: 1933390.403536 (Hazardous Location Testing)

Documents:

Description:	Drawing No.:	Rev. Level:	Date:
Approval Insert (Markings)	9415-001-Z0	A	2014-07-30
Instruction Manual	9415-318-500	A	2014
Overall Assembly	9415-001-CLRE-Z0-AP	A	2014-07-17
Head Assembly	9415-350-000	B	2014-08-07
Top Housing	9415-949-CLR	A	2014-07-10
Bottom Housing	9415-948-CLR	A	2014-07-10
Front Cover	9415-350-CLR-09	B	2014-08-07
Back Cover	9415-350-CLR-11	B	2014-08-07
Clear Lens	9415-350-000-07	A	2014-08-07
Switch Assembly	9416-620-110-AP	A	2013-01-14
PCB Assembly, including Schematic, Component and Circuit Trace Layouts, Bill of Materials	9415-342-000	A	2013-01-14
Battery Pack Assembly	9415-302-000	A	2013-04-10
Battery Pack Label	9415-302-000-022	A	2014-05-13

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Specific conditions of use:

The LED Head Assembly is covered with conductive coating to avoid build-up of electrostatic charge. The coating is humidity independent and the operating temperature is up to 155°C. Do not use in Hazardous Area if the coating is flaking or peeling.

The maximum measured capacitance of exposed metal parts is 13pF.


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Essential Health and Safety Requirements

Concerning ESRs this Schedule verifies compliance with the Annex III of ATEX directive only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II of this Directive.

Additional information

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.

The trademark  will be used as the company identifier on the marking label.

This certificate was issued as "Accredited by DANAK under registration number 7011 to certification of products".





REPORT

3933 US ROUTE 11 CORTLAND, NEW YORK 13045

Order No. 3196092

Date: December 3, 2009

REPORT NO. 3196092CRT-001

TEST OF A FLASHLIGHT, MODEL: 9410

RENDERED TO

PELICAN PRODUCTS
23215 EARLY AVENUE
TORRANCE, CA 90505

TEST: Mechanical shock testing was requested by the client.

AUTHORIZATION: The tests were authorized by quote no. Q500157919

SPECIFICATION: NATIONAL FIRE PROTECTION ASSOCIATION, NFPA, 1901 Automotive Fire Apparatus.

DESCRIPTION OF SAMPLE: The client supplied one sample. The sample was received by Intertek on November 24th, 2009 and tested as received. Sample designation number is N09V035.

DATE OF TEST: December 1st, 2009.

Sample	Specification	Result
N09V035 Configuration 1	NFPA, 1901	Pass
N09V035 Configuration 2	NFPA, 1901	Pass

relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program. Measurement uncertainty budgets have been determined for applicable test methods and are available upon request.



EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Calibration Due Date
Vibration Controller	UDC	V254	09/18/2010
Signal Conditioner	CVA-4	V252	11/20/2010
Accelerometer	10B10T	V253	08/18/2010
Accelerometer	10B10T	V255	08/18/2010
Torque wrench	DM70NM	N580	04/15/2010

TEST, TEST METHOD, AND RESULTS OF TEST

MECHANICAL SHOCK TEST: NFPA, 1901 Automotive Fire Apparatus:

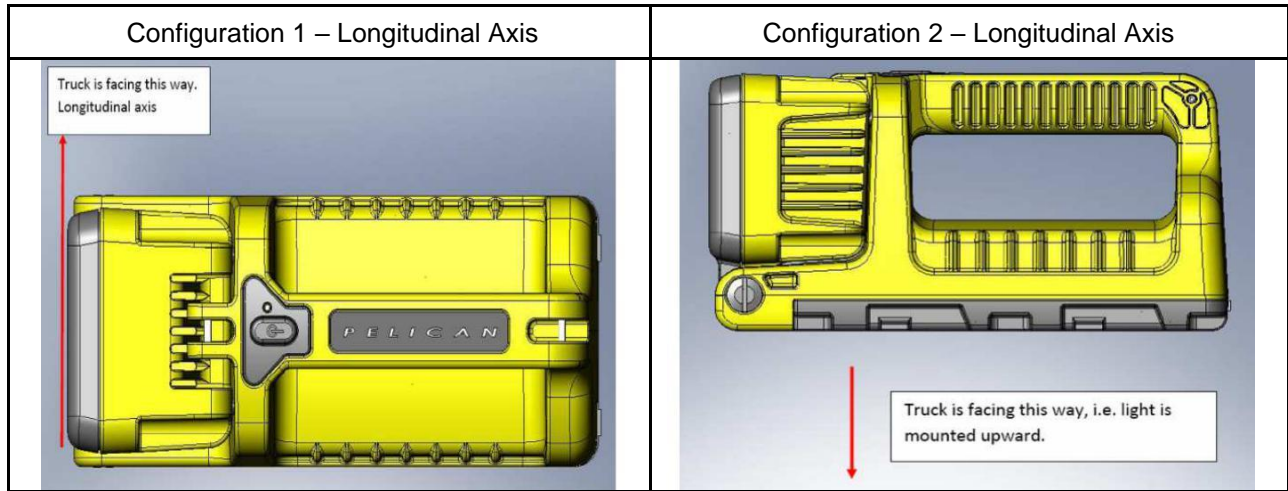
Test Procedure:

The test sample was mounted in design orientation. The test fixture was rigidly secured to a vibration exciter. The test sample was subjected to a 11ms Half sine shock pulse in the three mutually perpendicular axes for configuration 1 and configuration 2.

Axis	g-pk	Number of pulses	Width (ms)	Type
Longitudinal	9g	3+, 3-	11ms	Half Sine
Horizontal	3g	3+, 3-	11ms	Half Sine
Vertical	3g	3+, 3-	11ms	Half Sine



TEST, TEST METHOD, AND RESULTS OF TEST, Cont'd:



Results:

The test sample showed no signs of visible damage throughout testing. Test sample remained attached to the vehicle mounting device throughout the testing. Test sample maintained physical and electrical integrity.

In Charge Of Tests

Peter Leshkiv
Technician I
Lighting Division

Report Reviewed By:

Christopher W. Metcalf
Project Engineer
Lighting Division

Attachment: Picture page.
Mechanical shock plot page.

TEST OF A FLASHLIGHT, MODEL: 9410
TESTED FOR PELICAN PRODUCTS.



TEST OF A FLASHLIGHT, MODEL: 9410
TESTED FOR PELICAN PRODUCTS.

