



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	IECEX TRC 13.0013X	Issue No: 1	<b>Certificate history:</b> Issue No. 2* (2015-08-05) Issue No. 1 (2015-12-18) Issue No. 0 (2013-10-11)
Status:	<b>Current</b>	Page 1 of 4	
Date of Issue:	<b>2015-12-18</b>		
Applicant:	<b>Pelican Products Inc</b> 23215 Early Avenue, Torrance, California 90505 <b>United States of America</b>		
Electrical Apparatus:	<b>LED Headlight, Low power model 2745, High power model 2755 and Model 2765</b>		
<i>Optional accessory:</i>			
Type of Protection:	<b>Intrinsic Safety</b>		
Marking:	Ex ia IIC T4 Ga		

Approved for issue on behalf of the IECEx  
Certification Body:

Stephen Winsor

Position:

Certification Manager

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Element Materials Technology**  
Unit 1 Pendle Place  
Skelmersdale  
West Lancashire  
WN8 9PN





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Manufacturer: **Pelican Products Inc**  
23215 Early Avenue,  
Torrance,  
California 90505  
**United States of America**

Additional Manufacturing  
location(s):

**Critical Supplier Ref: 3044972 – refer QAR GB/FME/QAR08.0002**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2007-10</b> Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-26 : 2006</b> Edition:2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[GB/TRC/ExTR13.0013/00](#)      [GB/TRC/ExTR13.0013/01](#)

Quality Assessment Report:

[GB/FME/QAR08.0002/07](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The equipment is an LED head torch powered by three series connected non-rechargeable AAA batteries, the enclosure and lens are constructed from polycarbonate and thermoplastic elastomer compound materials. There are three models, the 2745, a low power version consisting of three white LEDs, the 2755, a high power version with one high power white LED one low power red LED and the 2765, with one high brightness white LED and two white LEDs. The 2755 and 2765 have coloured LED battery status indicators. Only the following battery models are permitted to be used with this product: 'Panasonic LR03 (Xtreme Power)' or 'Duracell MN2400' or 'Energizer E92 or Sanyo LR03 or Varta High Energy 4903 LR03 AAA size alkaline batteries'. The equipment is designed for use in Zone 0 explosive atmospheres based on intrinsic safety protection concept with an ingress protection rating of IP54.

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. The batteries shall not be removed or replaced in hazardous area.
2. The battery compartment shall not be opened in hazardous area.
3. Only the following battery models are permitted to be used in conjunction with this product: 'Panasonic LR03 (Xtreme Power)' or 'Duracell MN2400' or 'Energizer E92 or Sanyo LR03 or Varta High Energy 4903 LR03 AAA size alkaline batteries'.
4. All batteries used in the equipment shall be of the same manufacturer.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Addition of new model 2765.  
Removal of Philips battery.

Update of instructions.

**Annex:**

[Annex to IECEx TRC 13.0013X Iss 1.pdf](#)



**Element Materials Technology,  
Unit 1, Pendle Place,  
Skelmersdale,  
West Lancashire, WN8 9PN,  
United Kingdom**

**Annex to IECEx Certificate of Conformity**

**IECEx TRC 13.0013X issue No.:1**

<b>Special conditions for manufacture</b>
<ol style="list-style-type: none"><li>1. It shall be ensured that the conformal coating is applied and coats the entire PCB surface including all conducting parts of components, except the LED, switch, and Battery "+" and "-" contact area.</li><li>2. The strap used in conjunction with the head torch shall not be capable of presenting an electrostatic charge/discharge hazard.</li></ol>



**Manufacturer's Documents**

Title:	Drawing No.:	Rev. Level:	Date:
<b>Model 2745</b>			
PCBA, 2745 (SHEET 1 OF 3)	027450-0100-002-02	B	2015-09-18
SCHEMATIC AND BOM, 2745 (SHEET 2 OF 3)	027450-0100-002-02	B	2015-09-18
SCHEMATIC AND BOM, 2745 (SHEET 3 OF 3)	027450-0100-002-02	B	2015-09-18
HEADLIGHT, 2745 (2 SHEETS)	002745-6000-CLR	B	2015-09-18
2745 INSTRUCTION MANUAL	002745-0311-000	B	2015-09
<b>Model 2745, 2755 and 2765 (COMMON DOCUMENTS)</b>			
BATTERY HOUSING, 2740/50/60	027400-0100-002-01	B	2015-03-17
BATTERY COVER, 2740/50/60	027400-0100-001	C	2015-03-17
FRONT COVER O/M, 2740/50/60	027400-0100-003	C	2015-03-17
INNER COVER, 2740	027400-0100-004	B	2013-08-22
VENT PLUG, 2740/50/60	027400-0100-006	B	2015-03-17
MOLDED APPROVAL INSERT, 2745/2755 IECEx	2745-001	C	2015-09-14
<b>Model 2755</b>			
HEAT SINK, 2750	027500-0100-002-07	A	2013-08-22
PCBA, 2755 (SHEET 1 OF 2)	027550-0100-002-02	A	2013-09-14
SCHEMATIC AND BOM (SHEET 2 OF 2)	027550-0100-002-02	A	2013-09-14
HEADLIGHT, 2755 (2 SHEETS)	002755-6000-CLR	C	2015-09-25
2755 INSTRUCTION MANUAL	002755-0311-000	B	2015-09
<b>Model 2765</b>			
PCBA, 2765 (3 SHEETS)	027650-0100-002	B	2015-03-18
FRONT COVER, 2760	027600-0100-003	A	2013-07-22
Headlight, 2765 (2 SHEETS)	002765-6000-CLR	D	2015-07-14
2765 LED INSTRUCTION MANUAL	002765-0311-000	B	2015