



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

Certificate No.: IECEx TRC 13.0013X

Issue No: 3

Certificate history:

[Issue No. 3 \(2017-10-10\)](#)

[Issue No. 2 \(2016-12-23\)](#)

[Issue No. 1 \(2015-12-18\)](#)

[Issue No. 0 \(2013-10-11\)](#)

Status: **Current**

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Date of Issue: **2017-10-10**

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

Equipment: **LED Headlight, Low power model 2745 and High power model 2755 and Model 2765**

Optional accessory:

Type of Protection: **Intrinsic Safety, Optical Radiation**

Marking:
Ex ia op is 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](#).

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:

IEC 60079-0 : 2007-10 Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition:2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

*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/ExTR13.0013/03](#)

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

[GB/TRC/ExTR13.0013/02](#)

Quality Assessment Report:

[GB/FME/QAR08.0002/08](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The equipment is a portable LED head torch powered by three series connected AAA size 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 white 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 'Energizer E92' or 'Sanyo LR03' or 'Varta High Energy 4903 LR03' alkaline batteries or 'Peli P-NiMH-AAA'. The equipment is designed for use in Zone 0 explosive atmospheres based on intrinsic safety protection concept with an ingress protection rating of IP54.

SPECIFIC CONDITIONS OF USE: 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 Panasonic LR03 (Xtreme Power), Duracell MN2400, Energizer E92, Sanyo LR03, Varta High Energy 4903 LR03, or 'Peli P-NiMH-AAA' battery cells are permitted to be used in the equipment. All of the cells must be of the same manufacturer.
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):

PCB modification to include alternate LEDs and alternate resistor values (2755 / 2765 models only) and protection concept 'op is' applied to all models.

Annex:

[Annex to IECEx TRC 13.0013X Iss 3.pdf](#)



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

Annex to IECEx Certificate of Conformity

IECEx TRC 13.0013X issue No.:3

Special conditions for manufacture	
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.
2.	The strap used in conjunction with the head torch shall not be capable of presenting an electrostatic charge/discharge hazard.

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
Model 2745, 2755, 2765 (Common Documents)			
Vent plug, 2740/50/60	027400-0100-006	B	2015-03-17
Back plate O/M, 2740/50/60	027400-0100-005	B	2016-06-15
Battery cover, 2740/50/60	027400-0100-001	D	2016-06-05
Battery housing, 2740/50/60	027400-0100-002-01	B	2015-03-17
Front cover O/M, 2740/50/60	027400-0100-003	D	2016-06-15
Molded approval insert, Pelican 2745/2755	2745-003	A	2017-08-23
Battery contact, positive, 2740/50/60	027400-0100-002-06	A	2013-08-22
Battery contact, neg, 2740/50/60	027400-0100-002-05	A	2013-08-22
Battery contact, 2740/50/60	027400-0100-002-03	A	2013-08-22
Battery contact, 2740/50/60	027400-0100-002-04	A	2013-08-22
Model 2745 only			
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	002745-0311-002	A	2017-08
Model 2755 only			
Headlight, 2755 (2 sheets)	002755-6000-CLR	F	2017-02-17
PCBA, 2755 (3 sheets)	027550-0100-002-02	C	2017-02-10
Heat sink, 2750	027500-0100-002-07	A	2013-08-22
Facia, 2750	02750-0100-007	A	2013-02-03
Inner cover, 2755	027550-0100-004-03	A	2013-08-22
2755 Instruction manual	002755-0311-002	A	2017-08

Model 2765 only			
Heat sink, 2750	027500-0100-002-07	A	2013-08-22
Headlight, 2765 (2 sheets)	002765-6000-CLR	H	2017-02-10
PCBA, 2765 (4 sheets)	027650-0100-002	E	2017-02-10
Front cover, 2760	027600-0100-003	B	2016-06-15
Facia, 2750	02750-0100-007	A	2013-03-02
2765 LED instruction manual	002765-0311-002	A	2017-08
Inner cover, 2765	027650-0100-006	A	2014-10-31