

# 1 EU - TYPE EXAMINATION CERTIFICATE

## 2 Product or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU – Annex III

3 EU - Type Examination Certificate No.: **TRAC13ATEX0035X (incorporating variations V1 to V4)**

4 Product: **LED Headlight, 2745Z0 – Low power model, 2755Z0 – High power model and model 2765Z0**

5 Manufacturer: **Pelican Products Inc.,**

6 Address: **23215 Early Avenue, Torrance, California 90505, United States of America**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Element Materials Technology, Notified Body number 0891, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential report **TRA-013968-33-00A, TRA-022630-33-00A, TRA-023360-33-00A, TRA-033478-33-01A & TRA-034617-33-00A.**

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 60079-28:2015**

Except in respect of those requirements listed at section 18 of the schedule.

10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to specific conditions of use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product shall include the following:

 **II 1 G Ex ia op is IIC T4 Ga**

This certificate and its schedules may only be reproduced in its entirety and without change. This certificate is issued in accordance with the Element Materials Technology Ex Certification Scheme.

*S.P. Winsor*

S P Winsor, Certification Manager

Issue date: 2017-09-21

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**13 SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE**

**14 TRAC13ATEX0035X (incorporating variations V1 to V4)**

**15 Description of Product**

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 2745Z0, a low power version consisting of three white LEDs, the 2755Z0, a high power version with one white LED and the 2765Z0, with one high brightness white LED and, two white LEDs.

The 2755Z0 and 2765Z0 feature LED battery status indicators.

Only the following AAA size 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' 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.

**16 Test report No. (associated with this certificate issue): TRA-034617-33-00A.**

**17 Specific Conditions of Use**

1. 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.
2. Do not replace battery cells when an explosive atmosphere is present. Battery cells must be replaced with the correct polarity.

**18 Essential Health and Safety Requirements (Directive Annex II)**

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

<u>Clause</u>	<u>Subject</u>
None	None

**19 Drawings and Documents**

The list of controlled technical documentation is given in Appendix A to this schedule.

**20 Routine Tests**

None.

**21 Specific Conditions for Manufacture**

None.

22 Photographs



Pelican Head-torch 2745Z0



Pelican Head-torch 2765Z0

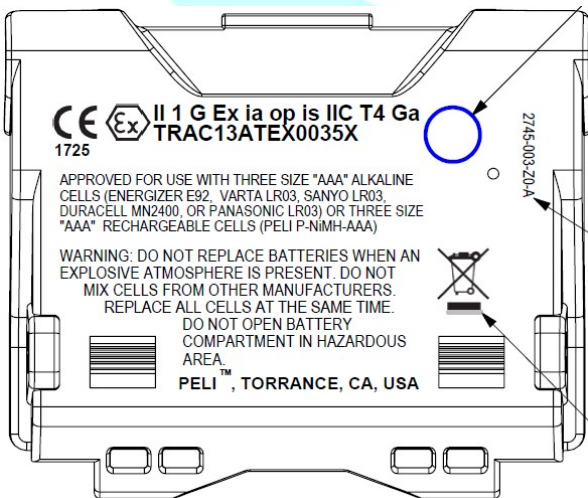


Pelican Head-torch 2765Z0 with attached strap

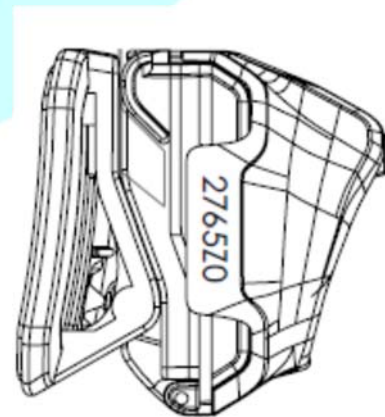


Pelican Head-torch 2755Z0

23 Details of Markings



ATEX markings common to all models



Example of specific mode number marking

### 24 Details of Variations to this Certificate

This certificate is a consolidated certificate and reflects the latest status of the certification, including the following variations:

- Variation V1 – Addition of the new model '2765Z0' to the existing certification and removal of Philips battery.
- Variation V2 – Change of enclosure shape for 2755Z0 and 2765Z0 model. Change of enclosure materials. Minor revision to PCB schematic for 2745Z0 model. Update of certification to incorporate changes between EN 60079-0:2009 and EN 60079-0:2012 + A11:2013. ATEX version model numbers now assigned Z0 suffix.
- Variation V3 – Addition of rechargeable NiMH cell to permitted cells list. Equipment no longer within the scope of latest version of EN 60079-26 and hence standard is no longer applicable.
- Variation V4 - PCB modification to include alternate LEDs and alternate resistor values (2755Z0 / 2765Z0 models only)

### 25 Notes to CE marking

In respect of CE Marking, Element Materials Technology accepts no responsibility for the compliance of the product against all applicable Directives in all applications.

### 26 Notes to this certificate

Element Materials Technology certification reference: TRA-034617-32-00.

Throughout this certificate, the date format yyyy-mm-dd (year-month-day) is used.

Notified Body 0891 is the designation for Element Materials Technology Warwick Ltd (formerly known as TRaC Global Ltd).

In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variation certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

**27 Conditions for the validity of this certificate**

This certificate remains valid for so long as:

- (i) The equipment listed in section 4 is manufactured in accordance with the documents listed in Appendix A of this certificate.
- (ii) The standards listed in section 9 of this certificate continue to satisfy the Essential Health and Safety Requirements of Annex II of Directive 2014/34/EU and the generally acknowledged state of the art (e.g. as determined by the publishers of those standards).



**CONTINUATION OF SCHEDULE TO CERTIFICATE TRAC13ATEX0035X V4**

<b>APPENDIX A - TECHNICAL DOCUMENTS</b>			
Title:	Drawing No.:	Rev. Level:	Date:
<b>Model 2745Z0, 2755Z0 and 2765Z0 (Common Documents)</b>			
INNER COVER, 2740	027400-0100-004	B	2013-08-22
FRONT COVER O/M, 2740/50/65	027450-0100-003	A	2015-08-18
BACK PLATE O/M, 2745/55/65	027450-0100-005	A	2015-08-26
Vent plug, 2740-50-60	027400-0100-006	B	2015-03-17
BATTERY HOUSING, 2745/55/65	027450-0100-002-01	A	2015-07-14
BATTERY COVER, 2745/55/65	027450-0100-001	B	2016-05-06
*Molded approval insert, 2745/2755 Zone 0	2745-003-Z0	A	2017-08-31
HEAD STRAP, CLOTH, 2690 PELI	2690-030-039E	A	2015-04-21
*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
<b>Model 2745Z0 only</b>			
PCBA, 2745 (SHEET 1 OF 3)	027450-0100-002-02	B	2015-09-18
SCHEMATIC AND BOM, 2745 (SHEET 2 TO 3)	027450-0100-002-02	B	2013-10-29
FACIA, 2745Z0	027450-0100-007	A	2014-11-11
HEADLIGHT, 2745	002745-6000-CLRE-Z0	B	2015-09-29
2745Z0 INSTRUCTION MANUAL (2 sheets)	002745-0318-504	A	2017
<b>Model 2755Z0 only</b>			
HEAT SINK, 2750	027500-0100-002-07	A	2013-08-22
PCBA, 2755 (3 SHEETS)	027550-0100-002-02	C	2017-02-10
FACIA, 2755Z0	027550-0100-007	A	2014-11-10
HEADLIGHT, 2755 (2 SHEETS)	002755-6000-CLRE-Z0	D	2017-04-28
2755Z0 INSTRUCTION MANUAL (2 sheets)	002755-0318-504	A	2017
INNER COVER, 2755	027550-0100-004-03	A	2013-08-22
<b>Model 2765Z0 only</b>			
PCBA, 2765 (4 SHEETS)	027650-0100-002	E	2017-02-10
FRONT COVER, 2765	027650-0100-003	B	2016-05-11
FASCIA, 2765Z0	027650-0100-007	A	2015-06-15
Headlight, 2765 (2 SHEETS)	002765-6000-CLRE-Z0	E	2017-04-28
2765Z0 INSTRUCTION MANUAL (2 sheets)	002765-0318-504	A	2017
INNER COVER, 2765	027650-0100-006	A	2014-10-31