

1 EC TYPE EXAMINATION CERTIFICATE

2 Equipment or protective system intended for use in potentially explosive atmospheres –
Directive 94/9/EC – Annex III

3 EC Type Examination Certificate No.: **TRAC13ATEX0035X (incorporating variations V2)**

4 Equipment: **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 equipment 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 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment or protective system 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.**

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in section 17 of the schedule to this certificate, has been assured by compliance with:

EN 60079-0:2012

EN 60079-11:2012

EN 60079-26:2007

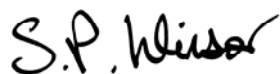
10 If the sign “X” is placed after the certificate number then this indicates that the equipment or protective system is subject to special conditions of safe use specified in the schedule to this certificate.

11 This EC-Type Examination certificate relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of this equipment or protective system shall include the following:

 **II 1 G Ex ia 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, Certification Manager

Issue date: 2015-11-06

13 **SCHEDULE TO EC TYPE EXAMINATION CERTIFICATE**

14 **TRAC13ATEX0035X (incorporating variations V2)**

15 **General description of equipment or protective system included within the scope of this certificate**

The equipment is a portable LED head torch powered by three series connected non-rechargeable 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 2755, 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 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.

A list of controlled Manufacturer's Documents is given in Appendix A to this schedule.

16 **Test report No. (associated with this certificate issue):** TRA-023360-33-00A.

17 **Essential health and safety requirements (Directive Annex II)**

Covered by application of the standards listed in section 9 of this certificate and the assessment conducted in the test report listed in section 16 of this certificate.

18 **"Special Conditions of Safe Use" for Ex Equipment, if any:**

1. The batteries shall not be removed or replaced in a hazardous area.
2. The battery compartment shall not be opened in a 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.

19 **"Routine tests", if any:**

None.

20 **"Special conditions for manufacture", if any:**

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.

21 **Other information, if any:**

None.

CONTINUATION OF SCHEDULE TO CERTIFICATE TRAC13ATEX0035X V2

22 Photographs



Pelican Head-torch 2745Z0



Pelican Head-torch 2755Z0

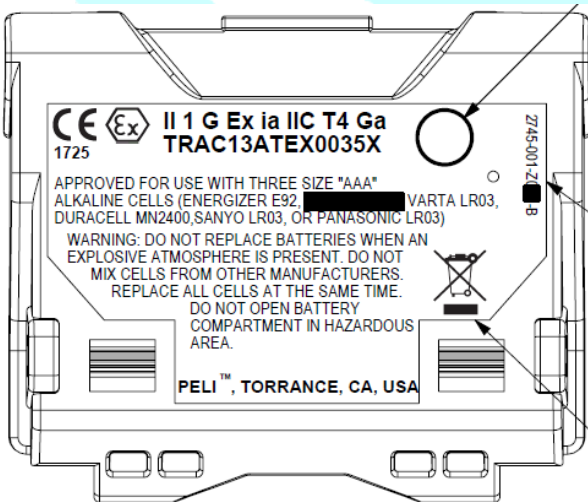


Pelican Head-torch 2765Z0

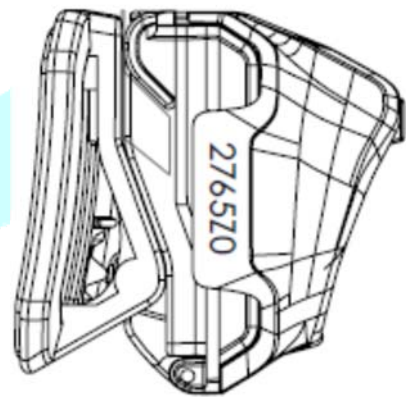


Pelican Head-torch 2765Z0 with attached strap

23 Details of markings



ATEX markings common to all models



Example of specific model number marking.

CONTINUATION OF SCHEDULE TO CERTIFICATE TRAC13ATEX0035X V2

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 '2765' 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 EN60079-0:2009 and EN 60079-0:2012. ATEX versions model numbers now have a Z0 suffix.

25 Notes to CE marking

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

26 Notes to this certificate

Element Materials Technology certification reference: **TRA-023360-32-00**.

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).

This certificate is a consolidated certificate and reflects the latest status of the certification, including all variations.

CONTINUATION OF SCHEDULE TO CERTIFICATE TRAC13ATEX0035X V2

APPENDIX A - LIST OF CONTROLLED MANUFACTURER'S DOCUMENTS

Title:	Drawing No.:	Rev. Level:	Date:
Model 2745			
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
2745 INSTRUCTION MANUAL	002745-0318-500	A	2013-10
Model 2745, 2755 and 2765 (COMMON DOCUMENTS)			
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	2014-11-11
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	A	2014-11-11
Molded approval insert, Pelican 2745/2755 Zone 0	2745-001-Z0	B	2015-04-13
HEAD STRAP, CLOTH, 2690 PELI	2690-030-039E	A	2015-04-21
Model 2755			
HEAT SINK, 2750	027500-0100-002-07	A	2013-08-22
PCBA, 2755 (SHEET 1 OF 2)	027550-0100-002-02	A	2013-09-04
SCHEMATIC AND BOM (SHEET 2 OF 2)	027550-0100-002-02	A	2013-09-04
FACIA, 2755Z0	027550-0100-007	A	2014-11-11
HEADLIGHT, 2755 (2 SHEETS)	002755-6000-CLRE-Z0	B	2014-11-10
2755 INSTRUCTION MANUAL	002755-0318-500	A	2013-10
Model 2765Z0			
PCBA, 2765 (3 pages)	027650-0100-002	B	2015-03-18
FRONT COVER, 2765	027650-0100-003	A	2015-06-15
FACIA, 2765Z0	027650-0100-007	A	2015-06-15
Headlight, 2765 (2 SHEETS)	002765-6000-CLRE-Z0	B	2014-11-10
2765Z0, manual	002765-0318-500	A	2015-04-03