



1. EC-TYPE EXAMINATION CERTIFICATE

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3. EC-Type Examination Certificate Number: **ITS13ATEX27839X**

4. Equipment or Protective System: **Portable LED Intrinsically Safe Penlight (Model XPP 5410G/ Model XPP 5412G)**

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

6. Address: **640 South Sanden Boulevard, Wylie, TX, 75098, USA**

7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8. Intertek Testing and Certification Limited, notified body number 0359 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 the 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 Intertek Report 100712480DAL-003 dated 7th February 2014


9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2012; EN 60079-11:2012; EN50303:2000; EN60079-26:2007; EN 60079-28:2007 except in respect of those requirements referred to at item 16 of the Schedule.

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 this certificate.

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

 I M1 Ex ia op is Ma

 II 1 G Ex ia op is IIC T3 Ga

$-20^{\circ}\text{C} \leq T_a \leq 40^{\circ}\text{C}$

A T Austin
Certification Officer
Date: 20 October 2014

Intertek Testing & Certification Limited
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SCHEDULE

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13. Description of Equipment or Protective System

The product covered by this report is a portable LED penlight. The printed circuit boards and components are mechanically captive by the design of the housing. After properly inserting the alkaline batteries, the assembly is mechanically locked via a cover locking screw.

XPP-5410 model is a shorter model, using two AAA cells in series, and having a boost converter; and XPP-5412 is a longer model, using three AAAA cells in series.

XPP-5410: 3.0 V nominal, powered by two AAA cells in series, types Duracell PC2400, MX2400 or MN2400, or Energizer E92 or EN92

XPP-5412: 4.5 V nominal, powered by three AAAA cells in series, types Duracell MX2500 or Energizer E96

14. Report Number:

Intertek Report 100712480DAL-003 Dated: 7th February 2014

15. CONDITIONS OF CERTIFICATION:

(a). Special Conditions for safe use

- XPP 5410 to be used only with 3.0 V nominal, powered by two AAA cells in series, types Duracell PC2400, MX2400 or MN2400, or Energizer E92 or EN92; XPP 5412 to be used with 4.5 V nominal, powered by three AAAA cells in series, types Duracell MX2500 or Energizer E96
- See Instruction Manual for Warnings

(b). Conditions For Use (Routine Tests)

- None

16. Essential Health and Safety Requirements (EHSR's):

The relevant EHSR's have been identified and assessed in Intertek Report 100712480DAL-003 Dated: 7th Feb 2014

17. Drawings and Documents:

Title:	Drawing No.:	Rev. Level:	Date:
5410 IS LED Pen Light General Top Level Design File (Total Sheet(s)=1)	5410-GENL-DWG1-00	E	14th Feb 2014
5410 IS LED Pen Light Certification Master Design File (Total Sheet(s)=3)	5410-CERT-DWG1-01	E	14th Feb 2014

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Title:	Drawing No.:	Rev. Level:	Date:
5410 IS LED Pen Light Electrical Master Design File (Total Sheet(s)=19)	5410-ELEC-DWG1-01	E	14th Feb 2014
5410 IS LED Pen Light Mechanical Master Design File (Total Sheet(s)=6)	5410-MECH-DWG1-001	E	14th Feb 2014
5412 IS LED Pen Light General Top Level Design File (Total Sheet(s)=1)	5412-GENL-DWG1-00	E	14th Feb 2014
5412 IS LED Pen Light Certification Master Design File (Total Sheet(s)=2)	5412-CERT-DWG1-01	E	14th Feb 2014
5412 IS LED Pen Light Electrical Master Design File (Total Sheet(s)=16)	5412-ELEC-DWG1-01	E	14th Feb 2014
5412 IS LED Pen Light Electrical Master Design File (Total Sheet(s)=6)	5412-MECH-DWG1-001	E	14th Feb 2014

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