EU TYPE-EXAMINATION CERTIFICATE

EU type-examination Certificate (Module B)

Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)

EU type examination certificate Nr **ITS13ATEX27839X R.0**

Product: Portable LED Intrinsically Safe Headlamp (XPP 5410G and XPP 5412G)

Manufacturer:	Bayco Products, Inc.	**Applicant:**	Bayco Products, Inc.
Address:	640 Sanden Blvd Wylie, TX 75098 USA	**Address:**	640 Sanden Blvd Wylie, TX 75098 USA

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

INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the 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 system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 104092972DAL-013

Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN IEC 60079-0:2018, EN 60079-11:2012 and EN 60079-28:2015 except in respect of those requirements referred to at item 16 of the Schedule.

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.

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.

The marking of the product shall include the following:

I M1 Ex ia op is Ma

II 1 G Ex ia op is IIC T3 Ga

-20°C ≤ Ta ≤ +40°C

06 October 2022

Certificate issue date

Todd L. Relyea
Certification Officer
Intertek Italia S.p.A. (NB 2575)

PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This certificate has been issued by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.

SCHEDULE

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13. **DESCRIPTION OF THE 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 having a boost converter and XPP-5412 is a longer model.

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.

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

14. **DRAWINGS AND DOCUMENTS**

TITLE	DOCUMENT Nr	LEVEL	DATE
*5410 IS LED Pen Light General Top Level Design File (Total Sheet(s)=1)	5410-GENL-DWG1-00	F	10/04/2019
*5410 IS LED Pen Light Certification Master Design File (Total Sheet(s)=3)	5410-CERT-DWG1-01	F	10/04/2019
*5410 IS LED Pen Light Electrical Master Design File (Total Sheet(s)=19)	5410-ELEC-DWG1-01	F	10/04/2019
*5410 IS LED Pen Light Mechanical Master Design File (Total Sheet(s)=6)	5410-MECH-DWG1-01	F	10/04/2019
*5412 IS LED Pen Light General Top Level Design File (Total Sheet(s)=1)	5412-GENL-DWG1-00	F	10/04/2019
*5412 IS LED Pen Light Certification Master Design File (Total Sheet(s)=2)	5412-CERT-DWG1-01	F	10/04/2019
*5412 IS LED Pen Light Electrical Master Design File (Total Sheet(s)=16)	5412-ELEC-DWG1-01	F	10/04/2019
*5412 IS LED Pen Light Electrical Master Design File (Total Sheet(s)=6)	5412-MECH-DWG1-001	F	10/04/2019

*Note: An * is included before the title of documents that are new or revised.*
Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

15. **SPECIFIC CONDITIONS OF 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

SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS13ATEX27839X R.0

16. **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS**

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek Intertek Report: 104092972DAL-013 Dated: December 06, 2021.

17. **ROUTINE (FACTORY) TESTS**

None

18. **DETAIL OF CERTIFICATE CHANGES**

R.0 (06 Dec 2021)

- Initial release by Intertek Italia S.p.A. NB 2575 based on the assessment performed on December 2021 and on the certificate legal ownership transferred from Intertek Testing & Certification Ltd. (NB 0359); the same issued original certificate number is used.
- Alternate LED model GW PUSRA1.PM-N4N6-XX51-1-700-R18 (could be N3N5 instead of N4N6 as the difference is in the Luminous Flux) has been added.
- Update polymer from RTP 2599 X 123981 to RTP 2599 X 133889.
- Standard EN 60079-0:2012 has been updated to EN 60079-0:2018.
- Standard EN 60079-28: 2007 has been updated to EN 60079-28: 2015.
- Standards EN 60079-26:2007 and EN 50303: 2000 have been removed.