

EU TYPE-EXAMINATION CERTIFICATE

1. EU type-examination Certificate (Module B)
2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)



3. EU type examination certificate Nr **ITS13ATEX27928X R.1**

4. **Product:** Portable LED Flashlight Headlamp (XPP-5454 and XPP-5454GC)

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

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

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

8. 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-021.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with 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.

10. If the sign X is placed after the certificate number, it indicates that the product is subject to Special Conditions for Safe 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 the product shall include the following:



II 1 G
Ex ia op is IIC T3 Ga
-20°C ≤ Ta ≤ +40°C

05 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 is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Intertek Italia S.p.A. Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy

LFT-EMEA-IT-ATEX-OP-23a (8 March 2022)

Page 1 of 4



SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS13ATEX27928X R.1

13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The product covered by this report is a portable LED flashlight headlamp. It consists of a flashlight and a floodlight. The user can operate either light independent of the other so that the user has the appropriate pattern of light for whatever the task at hand is. Both lights cannot be turned on simultaneously. The Nightstick headlamp is powered by three AAA alkaline batteries of 1.5V each. Batteries are connected in series and are the only source of power to the headlamp. The headlamp assembly is mechanically locked via a cover locking screw. Powered via three AAA/Alkaline batteries in series, types Energizer E92 or EN92 with ratings: 1.5Vnom and field-replaceable in areas known to be non-hazardous only. Battery compartment accessible with screw driver. Model XPP 5454 GC has metal clip fitted to rear of enclosure. There is no change in electrical circuit or batteries used on XPP 5422GC.

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 |
|---|--------------------------|-------|------------|
| *Top Level Design File | 5454-GENL-DWG1-00 | J | 10/01/19 |
| *Certification Master Design File | 5454-CERT-DWG1-01 | J | 10/01/19 |
| *XPP-5454 | XPP-5454-DWG1-01 MARKING | A | 07/15/2021 |
| *Electrical Master Design File | 5454-ELEC-DWG1-01 | J | 10/01/19 |
| *Electrical Top Level Elec Schematic | 5454-ELEC-DWG1-02 | J | 10/01/19 |
| *Electrical Switch Elec Schematic | 5454-ELEC-DWG1-03 | J | 10/01/19 |
| *Electrical Spot Elec Schematic | 5454-ELEC-DWG1-04 | J | 10/01/19 |
| *Electrical Flood Elec Schematic | 5454-ELEC-DWG1-05 | J | 10/01/19 |
| *Electrical Bill of Materials | 5454-ELEC-DWG1-06 | J | 10/01/19 |
| *Electrical Switch PCB Layout | 5454-ELEC-DWG1-07 | J | 10/01/19 |
| *Electrical Spot PCB Layout | 5454-ELEC-DWG1-08 | J | 10/01/19 |
| *Electrical Flood PCB Layout | 5454-ELEC-DWG1-09 | J | 10/01/19 |
| *Electrical Flood Top/Bottom Metal | 5454-ELEC-DWG1-10 | J | 10/01/19 |
| *Electrical Main Top/Bottom Metal | 5454-ELEC-DWG1-11 | J | 10/01/19 |
| *Electrical Switch Top/Bottom Metal | 5454-ELEC-DWG1-12 | J | 10/01/19 |
| *Electrical Specification, Encapsulate | 5454-ELEC-DWG1-13 | J | 10/01/19 |
| *Electrical BOM | 5454-ELEC-DWG1-14 | J | 10/01/19 |
| Mechanical Master Design File | 5454-MECH-DWG1-01 | I | 05/14/18 |
| Mechanical General Assembly – Exploded View | 5454-MECH-DWG1-02 | I | 05/14/18 |
| Mechanical General Assembly – Layout | 5454-MECH-DWG1-03 | I | 05/14/18 |
| Mechanical Sections | 5454-MECH-DWG1-04 | I | 05/14/18 |
| Mechanical Potting Dam Detail - Fuse | 5454-MECH-DWG1-05 | I | 05/14/18 |
| Mechanical Potting Dam Detail - Resistor | 5454-MECH-DWG1-06 | I | 05/14/18 |
| Mechanical Specification, Plastic | 5454-MECH-DWG1-07 | I | 05/14/18 |
| Mechanical Specification, Gasket/ O-Ring | 5454-MECH-DWG1-08 | I | 05/14/18 |
| *Instruction Manual XPP-5454G | INS-XPP-5454G-LG-22 | -- | 07-06-2022 |
| *Instruction Manual XPP-5454GC | INS-XPP-5454GC-LG-22 | -- | 07-06-2022 |



SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS13ATEX27928X R.1

*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. SPECIAL CONDITIONS FOR SAFE USE

- XPP-5454 to be used only with three AAA batteries in series, types Energizer E92 or EN92.
- For XPP 5454 GC; the capacitance measured on clip on back side of enclosure, being 3.8pF; exceeds limit of 3pF for Group IIC. The user shall determine the suitability of the equipment in the end application.
- See Instruction Manual for Warnings.

16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 104092972DAL-021 dated December 6, 2021.

17. ROUTINE (FACTORY) TESTS

- None

18. DETAIL OF CERTIFICATE CHANGES

Issue R.0:

No changes, transfer to Italy.

Issue R.1:

- 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. This LED was tested under ExTR GB/ITS/ExTR18.0051/00 and determined to meet T4 temperature code at an ambient of up to 40°C. Since it is good for T4 environment, it is good for T3 environment.
- Standard EN 60079-0:2012 has been updated to EN IEC 60079-0:2018.
- Update polymer from RTP 2599 X 123981 to RTP 2599 X 133889.

| Title: | Drawing No.: | Rev. Level: | Date: |
|--|-------------------|-------------|----------|
| Top Level Design File | 5454-GENL-DWG1-00 | J | 10/01/19 |
| Certification Master Design File | 5454-CERT-DWG1-01 | J | 10/01/19 |
| Certification Certification Marking Layout | 5454-CERT-DWG1-02 | J | 10/01/19 |
| Electrical Master Design File | 5454-ELEC-DWG1-01 | J | 10/01/19 |
| Electrical Top Level Elec Schematic | 5454-ELEC-DWG1-02 | J | 10/01/19 |
| Electrical Switch Elec Schematic | 5454-ELEC-DWG1-03 | J | 10/01/19 |
| Electrical Spot Elec Schematic | 5454-ELEC-DWG1-04 | J | 10/01/19 |
| Electrical Flood Elec Schematic | 5454-ELEC-DWG1-05 | J | 10/01/19 |
| Electrical Bill of Materials | 5454-ELEC-DWG1-06 | J | 10/01/19 |



SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS13ATEX27928X R.1

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|---|----------------------|----|------------|
| Electrical Switch PCB Layout | 5454-ELEC-DWG1-07 | J | 10/01/19 |
| Electrical Spot PCB Layout | 5454-ELEC-DWG1-08 | J | 10/01/19 |
| Electrical Flood PCB Layout | 5454-ELEC-DWG1-09 | J | 10/01/19 |
| Electrical Flood Top/Bottom Metal | 5454-ELEC-DWG1-10 | J | 10/01/19 |
| Electrical Main Top/Bottom Metal | 5454-ELEC-DWG1-11 | J | 10/01/19 |
| Electrical Switch Top/Bottom Metal | 5454-ELEC-DWG1-12 | J | 10/01/19 |
| Electrical Specification, Encapsulate | 5454-ELEC-DWG1-13 | J | 10/01/19 |
| Electrical BOM | 5454-ELEC-DWG1-14 | J | 10/01/19 |
| Mechanical Master Design File | 5454-MECH-DWG1-01 | J | 10/01/19 |
| Mechanical General Assembly – Exploded View | 5454-MECH-DWG1-02 | J | 10/01/19 |
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| Mechanical Specification, Gasket/ O-Ring | 5454-MECH-DWG1-08 | J | 10/01/19 |
| Instruction Manual XPP-5454G | INS-XPP-5454G-LG-22 | -- | 07-06-2022 |
| Instruction Manual XPP-5454GC | INS-XPP-5454GC-LG-22 | -- | 07-06-2022 |