

UK-TYPE EXAMINATION CERTIFICATE

Product or Protective Systems Intended for Use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1

1. **UK-Type Examination Certificate Number:** ITS21UKEX0266X **Issue 00**
2. **Product:** Portable LED Flashlight Headlamp (XPP-5454 and XPP-5454GC)
3. **Manufacturer:** Bayco Products, Inc.
4. **Address:** 640 Sanden Blvd
Wylie, TX 75098
USA
5. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
6. Intertek Testing and Certification Limited, Approved Body number 0359, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), 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 Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential report 104092972DAL-021.
7. 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 within item 14 of the Schedule.
8. If the sign “X” is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
9. This UK-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.
10. The marking of the product shall include the following:



II 1 G

Ex ia op is IIC T3 Ga

-20°C ≤ Ta ≤ +40°C

Certification Officer:



Todd L. Relyea

Date:

21 July 2022

SCHEDULE:

UK-Type Examination Certificate Number: ITS21UKEX0266X Issue 00

11. Description of Product 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: 1.5V_{nom} and field-replaceable in areas known to be non-hazardous only. Battery compartment accessible with screwdriver.

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.

12. Report Number

Intertek Report: 104092972DAL-021 Dated: December 06, 2021.

13. Special Conditions of Certification

(a). Special Conditions of 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.

(b). Conditions of Manufacture - Routine Tests

None.

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 104092972DAL-021 Dated: December 06, 2021.

15. Drawings and Documents

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
XPP-5454	XPP-5454-DWG1-01 MARKING	A	07/15/2021
Electrical Master Design File	5454-ELEC-DWG1-01	I	05/14/18
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

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. This Certificate is accredited under UKAS schedule 0010

Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SA
Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.