



- EU-TYPE EXAMINATION CERTIFICATE**
- Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**
- EU-Type Examination Certificate Number: ITS13ATEX27928X Issue 3**
- Product:** Portable LED Flashlight Headlamp (Model XPP-5454 and Model XPP-5454GC)
- Manufacturer:** Bayco Products, Inc.
- Address:** 640 South Sanden Boulevard, Wylie, TX 75098; U.S.A.
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the 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 Annex II to the Directive.  
  
The examination and test results are recorded in confidential Intertek Report 103524490DAL-002 dated 23 June 2018.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013, 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 Safe 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:



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-20°C ≤ Ta ≤ +40°C

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P Moss  
Certification Officer  
25<sup>th</sup> July 2018



## SCHEDULE

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### 13. Description of 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.

### 14. Report Number

Intertek Report 103524490DAL-002 dated 23 June 2018.

### 15. Special Conditions of Certification

#### (a). Specific Conditions of Safe Use

- XPP-5454 and XPP-5454GC to be used only with three AAA batteries in series, types Energizer E92 or EN92
- See Instruction Manual for Warnings and approved batteries
- 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.

#### (b). Conditions of Manufacture - Routine Tests

- None.



## SCHEDULE

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#### 16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report 101257224DAL-001E EHSR, dated 16 April 2014.

#### 17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
*Top Level Design File	5454-GENL-DWG1-00	I	05/14/18
*Certification Master Design File	5454-CERT-DWG1-01	I	05/14/18
*Certification US/CA Certification Marking Layout	5454-CERT-DWG1-02	I	05/14/18
*Electrical Master Design File	5454-ELEC-DWG1-01	I	05/14/18
*Electrical Top Level Elec Schematic	5454-ELEC-DWG1-02	I	05/14/18
*Electrical Switch Elec Schematic	5454-ELEC-DWG1-03	I	05/14/18
*Electrical Spot Elec Schematic	5454-ELEC-DWG1-04	I	05/14/18
*Electrical Flood Elec Schematic	5454-ELEC-DWG1-05	I	05/14/18
*Electrical Bill of Materials	5454-ELEC-DWG1-06	I	05/14/18
*Electrical Switch PCB Layout	5454-ELEC-DWG1-07	I	05/14/18
*Electrical Spot PCB Layout	5454-ELEC-DWG1-08	I	05/14/18
*Electrical Flood PCB Layout	5454-ELEC-DWG1-09	I	05/14/18
*Electrical Flood Top/Bottom Metal	5454-ELEC-DWG1-10	I	05/14/18
*Electrical Main Top/Bottom Metal	5454-ELEC-DWG1-11	I	05/14/18
*Electrical Switch Top/Bottom Metal	5454-ELEC-DWG1-12	I	05/14/18
*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

#### 18. Details of Certificate Changes Issue 1 (13 May 2015)

- Addition of a clip fitted to the rear of the enclosure to form Model XPP-5454GC.

#### Details of Certificate Changes Issue 2 (7 December 2015)

- Update drawing package to include the correct gasket manufacturer name

#### Details of Certificate Changes Issue 3

- Update circuit by updating current-limiting-resistors R1, R2 and R3 from 1225 to 2512 package size. All other parameters of these resistors remain the same.