



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX ITS 16.0045X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2017-06-27\)](#)
[Issue 0 \(2016-08-12\)](#)
Date of Issue: 2023-01-18
Applicant: **Bayco Products, Inc.**
640 S. Sanden Blvd.
Wylie
TX 75098
United States of America
Equipment: **I.S. LED Rechargeable Dual Task Light, model XPR-5522GMX**
Optional accessory:
Type of Protection: **Intrinsic Safety "i", Optical Radiation "op is"**
Marking: Ex ia op is IIC T3 Ga
-10°C ≤ Ta ≤ +40°C, IP54
IECEX ITS 16.0045X

Approved for issue on behalf of the IECEx
Certification Body:

Mark Newman

Position:

Certificate Officer

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Intertek Testing & Certification Limited
ITS House, Cleeve Road
Leatherhead
Surrey, KT22 7SA
United Kingdom

intertek



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Manufacturing
locations: **Bayco Products, Inc.**
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This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-28:2015](#) Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/ITS/ExTR16.0046/00](#)

[GB/ITS/ExTR22.0028/00](#)

Quality Assessment Report:

[GB/ITS/QAR13.0005/09](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The product covered by this certificate is a portable I.S. Dual-Light Rechargeable Flashlight. It consists of a flashlight and a floodlight. Both lights can also be turned on simultaneously in a dual-light mode. The Nightstick dual task light is powered by one rechargeable lithium battery of 3.8V (Samsung ICR18650-26F) which is inside a battery pack. Battery is the only source of power to the dual task light. Battery is charged using a charging station in a non-hazardous area. Charging station is not a part of evaluation and there are appropriate warnings that state that the product shall be charged in the non-hazardous area.

The entity parameters of the charging contacts of the flashlight are as follows:

$U_i = 4.75V$, $I_i = 500mA$, $L_i = 0.0 \mu H$, $C_i = 0.0 \mu F$, $P_i = 0.59W$

SPECIFIC CONDITIONS OF USE: YES as shown below:

The capacitance of two magnets and the side clip exceeds 3pF for Group IIC.

The user shall determine the suitability of the equipment in the end application. The capacitance measured was as follows:

Metal Part Measured Capacitance in pF:

Magnet on the base of enclosure 4.03

Magnet on the side of enclosure 3.1

Side Clip on enclosure 4.3



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

A new model, XPR-5522GMX has been added where the suffix 'X' denotes that the product has a black bezel and black clip rather than the green bezel and green clip from the original model.

Issue 2

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.
2. XPR-5522GM model has been removed.
3. Standards IEC 60079-28: 2007 and IEC 60079-0 has been updated to IEC 60079-28: 2015 and IEC 60079-0:2017
4. Update polymer from RTP 2599 X 123981 to RTP 2599 X 133889.

Annex:

[Annex for IECEx Certificate of Conformity - IECEx ITS 16.0045X_1.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ITS 16.0045X	Issue No. 2
Annex No. 1		

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
*5522 IS MULTI-FUNCTION TASK LIGHT CERTIFICATION MASTER DESIGN FILE	5522-CERT-DWG1-01	C	10/01/2019
*5522 IS MULTI-FUNCTION TASK LIGHT CERTIFICATION US/CA CERTIFICATION MARKING LAYOUT	5522-CERT-DWG1-02	C	10/01/2019
*5522 IS MULTI-FUNCTION TASK LIGHT CERTIFICATION MSHA	5522-CERT-DWG1-03	C	10/01/2019
*5522 IS MULTI-FUNCTION TASK LIGHT MASTER DESIGN FILE	5522-ELEC-DWG-01	C	10/01/2019
*5522 IS MULTI-FUNCTION TASK LIGHT ELECTRICAL SWITCH ELEC SCHEMATIC	5522-ELEC-DWG-03	C	10/01/2019
*5522 IS MULTI-FUNCTION TASK LIGHT ELECTRICAL SPOT ELEC SCHEMATIC	5522-ELEC-DWG-04	C	10/01/2019
*5522 IS MULTI-FUNCTION TASK LIGHT ELECTRICAL BATTERY CHARGER FLOOD ELEC SCHEMATIC	5522-ELEC-DWG-05	C	10/01/2019
*5522 IS MULTI-FUNCTION TASK LIGHT ELECTRICAL BATTERY CONTACT ELEC SCHEMATIC	5522-ELEC-DWG-06	C	10/01/2019
*5522 IS MULTI-FUNCTION TASK LIGHT ELECTRICAL PCB LAYOUT COMPONENT PLACEMENT	5522-ELEC-DWG-07	C	10/01/2019
*5522 IS MULTI-FUNCTION TASK LIGHT ELECTRICAL PCB LAYOUT DIMENSION	5522-ELEC-DWG-08	C	10/01/2019
*5522 IS MULTI-FUNCTION TASK LIGHT ELECTRICAL SAFETY CRITICAL COMPONENT	5522-ELEC-DWG-09	C	10/01/2019
*5522 IS MULTI-FUNCTION TASK LIGHT ELECTRICAL BATTERY CHARGER OUTPUT PROTECTION	5522-ELEC-DWG-10	C	10/01/2019
*5522 IS MULTI-FUNCTION TASK LIGHT ELECTRICAL ENCAPSULANT RESERVIOR	5522-ELEC-DWG-11	C	10/01/2019
Mechanical Master Design File (Total sheets=8)	5522-MECH-DWG1-01	B	01/30/2017
*Instruction Manual XPR-5522GMX	INS-XPR-5522GMX-DL-22	--	09-09-2022

*Note: An * is included before the title of documents that are new or revised*



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Annex No. 1		

IECEX Certified Components on Which Conformance Depends
NA

Required Manufacturer Routine Testing
NA