



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx FTZU 15.0029X

Issue No: 1

Certificate history:

Issue No. 1 (2017-10-30)

Issue No. 0 (2015-10-21)

Status: **Current**

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Date of Issue: **2017-10-30**

Applicant: **Streamlight, Inc.**  
30 Eagleville Road  
Eagleville PA  
19403  
**United States of America**

Equipment: **Flashlight Survivor**

*Optional accessory:*

Type of Protection: **Intrinsic safety, inherently safe optical radiation**

Marking:

Ex ia op is IIB T3/T4 Ga  
Ex ia op is IIC T3/T4 Gb

*Approved for issue on behalf of the IECEx  
Certification Body:*

Dipl. Ing. Martin Zámrský

*Position:*

Vice Head of Certification Body

*Signature:  
(for printed version)*

*Date:*

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Fyzikálne technický zkušební ústav  
(Physical -Technical Testing Institute)  
Pikartská 7, 71607 Ostrava - Radvanice  
Czech Republic**





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Manufacturer: **Streamlight, Inc.**  
30 Eagleville Road  
Eagleville PA  
19403  
**United States of America**

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**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 electrical 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 Report:

[CZ/FTZU/ExTR15.0029/00](#)      [CZ/FTZU/ExTR15.0029/01](#)

Quality Assessment Report:

[NO/NEM/QAR14.0001/02](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The equipment is a hand held, battery operated flashlight. The equipment comprises a body in two colours (yellow, red), a facecap with optic, a switch sealed by boot and fixing clip. Inside there are four 1.5V primary alkaline or lithium cells size AA in a carrier or the Streamlight pack 90316 with two secondary cells, three printed circuit boards with electronics. As a light source a high power white LED is used. There are charging pins for the version with the Streamlight pack 90316.

#### Parameters:

Degree of protection: IP 66

Ambient temperature: -20 to +40°C

Charging voltage: Um = 15 V

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The equipment shall be charged by manufacturer's chargers only and opened when the hazardous area is not present.
2. The equipment shall be worn or carried on the body while in hazardous area. The equipment shall not be stored in a hazardous area to prevent build up an electrostatic charge. The measured capacitance of accessible metal parts:
  - Charge contacts while used with Streamlight pack 90316 is 15 pF and
  - D-ring is 9 pF.
3. The cells size AA type Energizer L91 Lithium, Rayovac 815, Duracell MN1500 or Streamlight pack 90316 for temperature class T4 and type Panasonic LR6XP, Panasonic LR6XWA, Energizer E91 for temperature class T3 shall only be used in the equipment.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Issue 1:

1. An evaluation according to the standard IEC 60079-28:2015.
2. The marking was added by "op is".
3. Small changes in mechanical construction.
4. Revised specific conditions of use.