



EC-Type Examination Certificate

- (1)
- (2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 94/9/EC)**

- (3) EC-Type Examination Certificate Number:

FTZÚ 15 ATEX 0046X

- (4) Equipment or protective system: **Flashlight Survivor**
- (5) Manufacturer: **Streamlight, Inc.**
- (6) Address: **30 Eagleville Road, Eagleville, PA 19403, USA**
- (7) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this 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 systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°:

15/0046 dated 12.10.2015

- (9) Compliance with Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012, EN 60079-11:2012
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-Type Examination Certificate relates only to the design, examination and testing of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- (12) The marking of the equipment or protective system shall include the following:

 **II 1G Ex ia IIB T3/T4 Ga**
II 2G Ex ia IIC T3/T4 Gb

- ref. clause 17.3

- (13) This EC-Type Examination Certificate is valid till: **12.10.2020**

Responsible person:

V. Z. Fojt

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 12.10.2015

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FTZÚ, s.p., Pikartská 1337/7, 716 07 Ostrava-Radvanice, Czech Republic,
tel +420 595 223 111, fax +420 596 232 672, ftzu@ftzu.cz, www.ftzu.cz



**Physical Technical Testing Institute
Ostrava – Radvanice**

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 15 ATEX 0046X**

(15) Description of Equipment:

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: $U_m = 15\text{ V}$

(16) Report No.: 15/0046

(17) Special conditions for safe use:

17.1 The equipment shall be charged by manufacturer's chargers only and opened when the hazardous area is not present.

17.2 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 15pF.

17.3 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.

(18) Essential Health and Safety Requirements:

Essential health and safety requirement of Directive 94/9/EC are covered by the standard mentioned in (9), according which the product was verified and in the manufacturer's instruction for use No. 998131.

Responsible person:

V. Z. Jof

Dipl. Ing. Lukáš Martinák
Head of Certification Body



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Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 15 ATEX 0046X**

(19) List of Documentation:

Document No.:	Rev.:	Date:	Pages:	Title:
B 330215	C	04.12.2015	1	Switch Boot
B 670015	E	30.09.2014	1	Valve
D 905002	B	14.08.2013	1	Battery Door
B 905003	D	19.03.2015	1	Switch Ring
C 905027	A	24.05.2006	1	Battery Door Assy
A 905028	T3	01.08.2006	1	Battery Door O-Ring
C 905030	B	02.06.2015	1	Alkaline Battery Carrier
A 905046	T1	19.06.2006	1	Housing O-Ring
C 908000-3	A	01.10.2015	1	Survivor ATEX Assy
D 908001	C	19.03.2015	1	Body
A 908002	C	23.03.2015	1	Lens
C 908003	H	27.07.2015	1	Facecap
C 908004	C	14.07.2015	1	Optic
C 908007	E	17.02.2015	1	Clip
C 908008	C	16.01.2014	1	Clip Assy
D 908009	D	24.02.2014	1	Heatsink
A 908013	B	23.12.2013	1	Facecap O-Ring
A 908024	B	06.10.2015	1	ATEX Label
C 908030	B	13.08.2015	1	ATEX LED Module Assy
C 908031	B	13.08.2015	1	ATEX Electrical Assy
C 908032	B	13.08.2015	1	ATEX Switch PCB Assy
B 908033	B	13.08.2015	1	ATEX Switch PCB
A 908034	B	13.08.2015	1	ATEX LED Assy
A 908035	B	26.08.2015	1	ATEX LED PCB
C 998131	B	02.10.2015	1	ATEX Addendum
C 903160	C	08.05.2015	1	Lithium Battery Pack Assy
903136 Ass	F	18.09.2015	4	Battery Case and Boards Sub Assy
903138 Ass	F	18.09.2015	4	Center and Contact PCB Assy
903139 Ass	F	18.09.2015	10	Center PCB Assy

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(19) List of Documentation: continue

Document No.:	Rev.:	Date:	Pages:	Title:
908030 Ass	C	09.09.2015	4	LED Module Assy
908031 Ass	C	09.09.2015	4	Electronics Assy
908032 Ass	C	09.09.2015	10	Switch PCB Assy
C 903136	C	24.03.2015	1	Batt Case and Boards Sub. Assy
D 903137	D	04.04.2015	1	Case Button
B 903138	D	25.03.2015	1	Center, Contact PCB Assy
B 903139	D	24.03.2015	1	Center, PCB Assy
B 903140	C	24.03.2015	1	PCB Center
B 903143	C	24.03.2015	1	Contact, PCB Assy
B 903145	C	24.03.2015	1	Spring PCB Assy
B 903146	D	24.03.2015	1	PCB, spring
D 903147	D	04.04.2015	1	Top Case
B 903171	D	24.03.2015	1	PCB, Module Contact
B 903173	C	12.08.2015	1	Cell, Assy
A 903174	C	12.08.2015	1	Cell
A 903175	B	05.08.2015	1	Contact Bent
A 903176	B	05.08.2015	1	Contact, Straight
903143 Ass	C	24.03.2015	5	Lithium Battery Pack Assy
903145 Ass	C	24.03.2015	5	Spring PCB Assy

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