



Type Examination Certificate

- (1)
(2) **Equipment intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) Type Examination Certificate Number:

FTZÚ 08 ATEX 0139X

- (4) Equipment: **Fire Vulcan LED**
(5) Manufacturer: **Streamlight, Inc.**
(6) Address: **30 Eagleville Road, Eagleville PA 19403 U.S.A.**

- (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 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 Category 3 equipment, which is intended for use in potentially explosive atmospheres given in Annex II to the Council Directive 94/9/EC.

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

08/0139 dated 27.04.2009

- (9) Compliance with Essential Health and safety requirements has been assured by compliance with:
EN 60079-0:2006 EN 60079-15:2005 EN 61241-0:2006 EN 61241-1:2004
- (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 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 following:



**II 3G Ex nAL IIC T5
II 3D Ex tD A22 IP66 T 65°C**

This Type Examination Certificate is valid till: **27.04.2014**

Responsible person: _____

Sindler
Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 27.04.2009

Number of pages: 1/3

This certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This certificate may only be reproduced in its entirety and without any change, schedule included.



Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **Type Examination Certificate N° FTZÚ 08 ATEX 0139X**

(15) **Description of Equipment:**

The equipment is a plastic portable battery operated lantern with carrying handle. The equipment is a self-protected energy-limited apparatus.

The equipment comprises lantern body (orange polycarbonate), floodcap (black polycarbonate), reflector (polycarbonate with metallized mirror), lens (transparent polycarbonate), handle (black rubber) and two led lenses (transparent polycarbonate). Inside of the equipment there are two (2) printed circuit boards on which all of the electronic components are mounted without the battery and the switch. The battery is mounted into the foam battery holder. The three-positions switch is located below carrying handle. In the bottom of the equipment there are two covered contacts for charging the battery and the pressure relief valve with the valve plug. As light sources there are used Luxeon LED type LXK3-PWC4 on the front side and two blue LEDs on the back side of the equipment.

The equipment is supplied by battery - two (2) self-contained, rechargeable 3.3V 2.3Ah Lithium-ion cells type AMR26650 produced by A123 Systems, Inc which may be changed from charger made available by Streamlight, Inc. for use with this equipment.

Ratings: Ambient temperature range: $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$
Degree of protection: IP 66

(16) Report No. : 06/0139 dated 27.04.2009

(17) **Special conditions for safe use:**

- 17.1 The equipment must only be used in an area with low risk of mechanical damage.
- 17.2 The equipment must only be charged and opened in a non-hazardous area.

(18) **Essential Health and Safety Requirements:**

Covered by standards mentioned in clause (9) of this certificate.

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 27.04.2009

Number of pages: 2/3

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) Type Examination Certificate N° FTZÚ 08 ATEX 0139X

(19) List of documentation:

Drawing No.:	Revision:	Sheets:	Date:
A297525-2	A	1	25.03.2009
A446053	A	1	23.04.2009
446003 Assy	F	11	17.07.2008
C446100	A	1	14.04.2009
D441001	D	3	15.04.2009
C446019	B	1	13.04.2009
C446012	A	1	15.01.2008
C446011	B	1	15.01.2009
C446019	C	1	09.08.2003
B446021	A	1	20.03.2008
A446046	A	1	30.05.1999
C446016	T2	1	02.07.2008
B446133	T3	1	04.09.2003
A446013	B	1	23.08.2002
A446013	T2	1	02.07.2008
A130018	A	1	02.06.1997
A446017	A	1	25.08.1999
A446023	T2	1	08.04.2008
B446008	T1	1	11.08.2008
C446010	B	1	28.03.2008
B446003	B	1	15.04.2009
A450116	A	1	23.04.2009
C446069	Q1	1	22.04.2009
B446009	T1	1	11.08.2008

The documentation was verified by FTZÚ dated 27.04.2009

Responsible person:


Dipl. Ing. Ondřej Jarcáček
Head of certification body



Date of issue: 27.04.2009

Number of pages: 5/3

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