



## 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 11 ATEX 0066**

(4) Equipment: **Signal LED flashing light, type SB-XX-Ex/X**

(5) Manufacturer: **TEVEL, Teve Varnost ELEKTRONIKA, d.o.o.**

(6) Address: **Borovniško naselje 7, 1412 Kisovec, Slovenia**

(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°:

**11/0066 dated 30.04.2014**

(9) Compliance with Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2009 EN 60079-7:2007 EN 60079-11:2012 EN 60079-18:2010**

(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:

**Ex II 2G Ex e mb ib IIC T4 Gb**

**Ex II 2D Ex mb tb ib IIC T135°C Db**

**Ex I M2 Ex e mb ib I Mb**

This EC-Type Examination Certificate is valid till: **13.05.2019**

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 13.05.2014

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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 11 ATEX 0066**

(15) Description of Equipment:

Signal LED flashing light type SB-XX-Ex/X is intended for visual warning signalization of danger or same other special events.

Signal LED strobe light SB-XX-Ex/X is composed from three main sections:

- Connection box, protected by increased safety and by enclosure "t", is equipped with cable gland type 07-9534-1M2, certificate BVS 11 ATEX E074 X, and for mining application is equipped with cable gland type 54342\*M20, certificate IBExU 01 ATEX 1013X or alternatively type 54543.\*-M20, certificate IBExU 03 ATEX 1081. Inside of terminals box are installed terminals type VDFK 4, certificate KEMA 04 ATEX 2210U.
- Power supply housing is protected by encapsulation "m".
- Signal light housing is protected by intrinsic safety "i".

The SB-XX-Ex/X housing is made out of stainless steel.

This equipment is designed in 4 basic versions which differ by value of supply voltage. All variants are designed for visual signalling in five different colours.

Technical parameters:

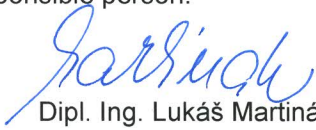
Un = 24V (AC); 42V (AC); 115V (AC); 230V (AC)

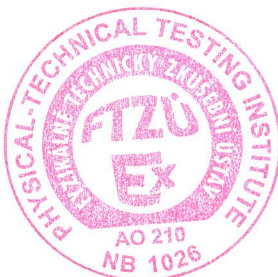
fn = 50Hz

Degree of protection: IP66

Ambient temperature:  $-20\text{ }^{\circ}\text{C} \leq T_a \leq +40\text{ }^{\circ}\text{C}$

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(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 11 ATEX 0066**

(15) Description of Equipment:

Type key:

**SB-XX-Ex/X**

Equipment group: (I) Mining  
(II) Industry

Color: 1) Yellow  
2) Red  
3) Green  
4) Blue  
5) White

Supply voltage: 2) 24V (AC) +/- 10%  
3) 42V (AC) +/- 10%  
4) 115V (AC) +/- 10%  
5) 230V (AC) +/- 10%

(16) Report No.: 11/0066

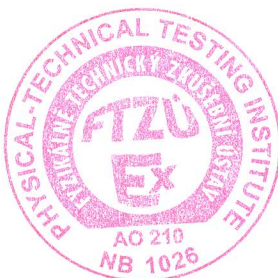
(17) Special conditions for safe use: None

(18) Essential Health and Safety Requirements:

They are included in standards, which are mentioned in clause (9) of this certificate. The product was approved in accordance with above mentioned standards.

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Physical Technical Testing Institute  
Ostrava – Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 11 ATEX 0066**

(19) List of Documentation:

Drawings No.	358001	(23 pages)	03.2014
	358002		03.2014
	358003		03.2014
	358004		02.2014
	358005		02.2014
	358006		03.2014
	358007		03.2014
	358008		03.2014
	358009		03.2014
	358010		03.2014
	358011		03.2014
	358012		03.2014
	358013		03.2014
	358014		03.2014
	358015		03.2014
	358016		03.2014
	358017		03.2014
	358018		03.2014
	358019		03.2014
	358020		03.2014
	358021		03.2014
	358022		03.2014
	358023		03.2014
	358024		09.02.2011
	358025		18.11.2011
	358026		02.2014
	358027		11.2011
	358028		18.11.2011
	358029		27.01.2011
	358030		27.01.2011
	358031		21.07.2011
	358032		02.2014
	358033		05.2013
	358034		03.2014
	358035		05.2013
	358036		03.2011
	358037		03.2014
	358038		31.03.2014

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