

# (1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number

**TÜV 15 ATEX 7673 X**

Issue: 02

- (4) Equipment: **Explosion Proof Lighting type Kswordfish Series**
- (5) Manufacturer: **SHENZHEN KHJ SEMICONDUCTOR LIGHTING CO., LTD.**
- (6) Address: **4-5 Floor Building 1, Chuang xin Industrial Park, Xintian Community Guanlan, Longhua new district, Shenzhen , China**
- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26<sup>th</sup> February 2014, certifies this product which 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 atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report GC/Ex 7673.02/15

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

**EN 60079-0:2012+A11:2013**

**EN 60079-1:2014**

**EN 60079-7:2015**

**EN 60079-28:2015**

**EN 60079-31:2014**

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



**II 2 G Ex d eb op is IIC T6 Gb**

**II 2 D Ex tb op is IIIC T80°C Db**

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2018-05-24

Dipl.-Ing. Klauspeter Graffi

This EU-Type Examination Certificate without signature and stamp shall not be valid.  
This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the  
TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln  
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13) Annex

(14) **EU Type Examination Certificate**  
**TÜV 15 ATEX 7673 X** Issue: 02

(15) Description of equipment

15.1 Equipment and type:

Explosion Proof Lighting  
Type Kswordfish Series(18W, 36W 48W, 56W ,72W)

15.2 Description / Details of Change

Description:

The Explosion Proof Lighting type Kswordfish serials intended use in explosive atmosphere gas (IIC) of Zone 1 and dust (IIIC) of Zone 21.

The detailed information is in DE/TUR/ExTR16.0028/00 and DE/TUR/ExTR16.0028/01.

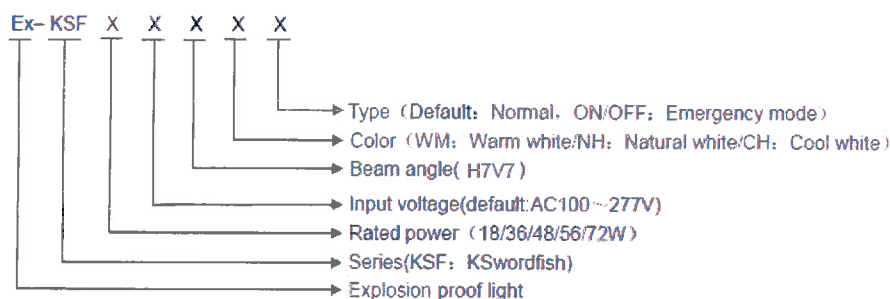
Details of change:

1. One of the difference between the lighting in this report and that in DE/TUR/ExTR 16.0028/00 and DE/TUR/ExTR 16.0028/01 is that the driver chamber is partly encapsulated,take drawing No. 130901-IIC-01-ATEX/IECEX,130901-IIC-02-ATEX/IECEX for reference.
2. The other difference is that the gas group for the lightings is changed from IIB to IIC.

The change above will only result in IEC 60079-0 and IEC 60079-1 revaluation and not result in IEC 60079-7, IEC 60079-28 and IEC 60079-1 revaluation.

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Type code:



Technical Data

Electrical data:

Rated voltage 100VAC~277VAV (50Hz / 60Hz)  
Rated power (18W, 36W 48W, 56W ,72W)

Environmental data:

Ambient temperature range  $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$   
Temperature class T6 (gas atmosphere) and T80°C (dust atmosphere)

(16) Test-Report No. GC/Ex 7673.02/15

(17) Special Conditions for safe use

1. The end user shall use more than a 4mm<sup>2</sup> wire for external earthing purpose.
2. End user shall use certified cable glands with suitable type of protection for installation purpose.
3. Minimum IP66 for chosen cable glands.
4. Clearances and creepage distances should be considered when installing the power cables.
5. The specification and installation of power cables must be in accordance with user manual. The power cable shall be fixed as close as possible to the enclosure of the lamp after installation.
6. Use only replaceable battery pack of JJJ type J-C2800.
7. Clean the luminaire regularly to prevent dust accumulation.
8. 315T silicone adhesive was used to block the several small flameproof compartments, if any damages will be found during maintaining and installing, it is not allowed to use this lamp anymore.

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(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2018-05-24

  
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