

(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: 00

- (4) Equipment: Explosion Proof Lighting type Kswordfish serials (18W, 36W, 48W, 56W and 72W)
- (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 for ex-protected products of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this equipment 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/Ex7673.00/15 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 EN 60079-1: 2014 EN 60079-7: 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 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.



II 2 GD Ex d eb IIB T6 Gb

Ex tb IIIC T80°C Db

TÜV Rheinland ExNB for explosion protected equipment

Cologne, 2016-08-16

Dipl.-Ing. Andreas Maschke



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This 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: 00

(15) Description of equipment

15.1 Equipment and type:

Explosion Proof Lighting type Kswordfish serials
(18W, 36W , 48W, 56W, 72W)

15.2 Description / Details of Change

General product information

The Explosion Proof Lighting type Kswordfish serials can be used in explosive atmosphere of gas (IIB) and dust (IIIC).

This lamp comprises one flameproof chamber and two increased safety chambers.

The enclosure of this lamp is made from aluminium alloy (6063-T5 and ADC12), and two different colors coating was applied for the whole enclosure. The thickness of coating is limited to 0.08mm-0.1mm.

The installation method of lamp including ceiling mount/pipe mount/pendant mount and wall mount.

The external earthing of the enclosure of the explosion proof lighting is considered.

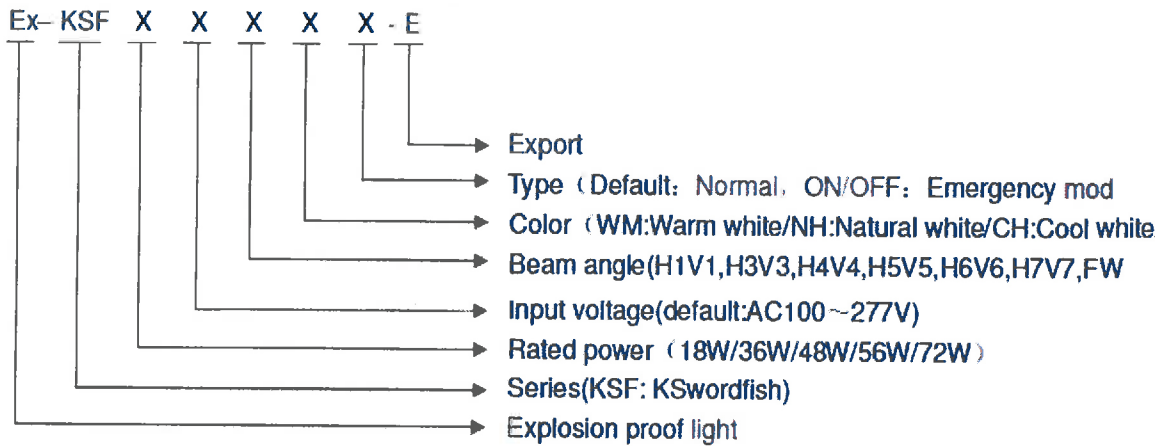
The lamp including three light sources: warm white (WM),cool white(CH) and natural white(NH).

There are three types of cable entry device (NPT3/4",G3/4" and M25) on the increased safety enclosure of the lamp.

The lamp including powers: (18W, 36W , 48W, 56W, 72W)

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Type code:



Technical Data

Parameters

Electrical parameters

Rated voltage 100VAC~277VAV (50Hz / 60Hz)

Rated power (18W, 36W, 48W, 56W, 72W)

Thermal parameters

Ambient temperature range $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

Temperature class T6

(16) Test-Report No. GC/Ex7673.00/15

(17) Special Conditions for safe use

1. The end user shall use more than 4mm² wires for external earthing purpose.
2. End user shall use certified cable gland with suitable type of protection for installation purpose, and only the non-armoured cables can be used.
3. Minimum IP66 for chosen cable glands.
4. Clearances and creepage distances should be considered when install the power cables.

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5. The specification and installation of power cables must be in accordance with user manual. The power cable shall be fixed as close as the enclosure of the lamp after installed.
6. Use only replaceable battery pack of JJJ type J-C2800.
7. Clean the luminaire regular time to prevent dust accumulation.
8. 315T silicone adhesive was used to block the several small flameproof compartments, if any damages was found during maintaining and installing, it is not allowed to use this lamp anymore.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

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