

**IBExU Institut für Sicherheitstechnik GmbH**  
An-Institut der TU Bergakademie Freiberg



[1] **TYPE EXAMINATION CERTIFICATE - Translation**

[2] for non-electrical products of equipment-groups I and II,  
equipment-categories M2 and 2 plus products of equipment-category 3

[3] Type examination certificate number **IBExU16ATEXB003 X** | Issue 1

[4] Product: **Navigation light**  
Type: Series S64

[5] Manufacturer: **K2W Lights UG & Co. KG**

[6] Address: **Göschwitzer Straße 22**  
**07745 Jena**  
**GERMANY**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.



The examination and test results are recorded in the confidential test report IB-22-3-0139.

[9] Compliance with the essential health and safety requirements has been assured by compliance with: EN IEC 60079-0:2018, EN IEC 60079-7:2015/A1:2018 and EN 60079-31:2014 except in respect of those requirements listed at item [18] of the schedule.

[10] If the sign "X" or "U" is placed after the certificate number, it indicates that the product is subject to the specific conditions of use specified in the schedule to this certificate.

[11] This type examination certificate relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured or supplied.

[12] The marking of the product shall include the following:

 **II 3G Ex ec IIC T4 Gc X**  
 **II 3D Ex tc IIIC T130 °C Dc X**

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- Stamp -

Certificates without signature and stamp are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Freiberg, 2023-06-06

**IBExU**

[13] **Schedule**

[14] **Certificate number IBExU16ATEXB003 X | Issue 1**

[15] **Description of product**

The Navigation light of series S64 serves as position light on ships and can be used in hazardous areas of zone 2 and 22. It consists mainly of a light-transmitting glass cylinder, the base with the LEDs and the bottom and cover, made of aluminium. Depending on the luminous range the number of LEDs varies up to maximum 12. The connection of the LEDs is carried out redundantly, so that maximum half of the LEDs is illuminated at once. The electronic components located in the bottom are completely casted. The connection is carried out by a permanently connected cable. Several types with different luminous colours and electrical power are provided.

**Technical data:**

- Rated voltage: 12 V DC or 24 V DC ( $\pm 10\%$ )
- Nominal power: max. 9.8 W
- Ambient temperature range: -25 °C up to +55 °C

*Variations compared to initial type examination certificate, date of issue 2016-03-30:*

*Variation 1*

The use of new gaskets has been assessed.

*Variation 2*

The navigation light complies with the requirements of current standards, thus the marking has been changed.

[16] **Test report**

The test results are recorded in the confidential test report IB-22-3-0139 of 2023-06-06. The test documents are part of the test report and they are listed there.

*Summary of the test results*

The Navigation light series S64 further fulfils the requirements of explosion protection for electrical equipment of the Equipment Group II and Category 3G in type of protection increased safety "ec" and Category 3D with protection by enclosure "tc".

[17] **Specific conditions of use**

- The Navigation light may be used in an extended ambient temperature range of -25 °C up to +55 °C.
- The Navigation light has not been subjected to the impact test according to EN IEC 60079-0, Clause 26.4.1. It has to be installed protected from mechanical risks in a suitable manner.
- The Navigation light is intended for the use in upright position.
- The connection of the Navigation light has to be connected outside of the hazardous area or in a terminal box which complies with the requirements of a type of protection as specified in EN IEC 60079-0, Clause 1.

[18] **Essential health and safety requirements**

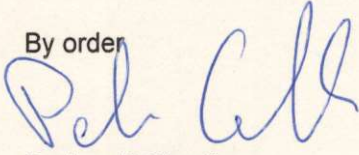
In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report:

None

[19] **Drawings and Documents**  
The documents are listed in the test report.

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Freiberg, 2023-06-06



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