



[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 **IBExU23ATEXB005 X** | Issue 0

[4] Product: **Heating plate for Navigation light 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-22-3-0140.

[9] Compliance with the essential health and safety requirements has been assured by compliance with:  
EN IEC 60079-0:2018 and EN 60079-18:2015/A1:2017  
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 mc IIC T4 Gc X**  
 **II 3D Ex mc IIIC T130 °C Dc X**

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By order

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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.

- Stamp -

Freiberg, 2023-07-24

**IBExU**

[13]

**Schedule**

[14]

**Certificate number IBExU23ATEXB005 X | Issue 0**

[15]

**Description of product**

The Heating plate for navigation lights S64 is used to keep position lights on ships free of ice and can be used in hazardous areas of zones 2 and 22. It consists mainly of a seawater-resistant aluminium housing containing the fully encapsulated heating resistors and a PT1000. The connection is made via the permanently connected cable.

**Technical Data:**

- Rated voltage: 24 V DC  $\pm$  10 %
- Input power: max. 12 W
- Ambient temperature range: -25 °C up to +40 °C

[16]

**Test report**

The test results are recorded in the confidential test report IB-22-3-0140 of 2023-06-22. The test documents are part of the test report and they are listed there.

*Summary of the test results*

The Heating plate for Navigation light S64 fulfils the requirements of explosion protection for electrical equipment of the Equipment Group II and Category 3G and 3D in type of protection encapsulation "mc".

[17]

**Specific conditions of use**

- The Heating plate for Navigation light may be used in an extended ambient temperature range of -25 °C up to +40 °C.
- The Heating plate for Navigation light has to be bonded to the equipotential bonding system by installation.
- The Heating plate for 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.
- The electrical parameter are specified in the instructions.

[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

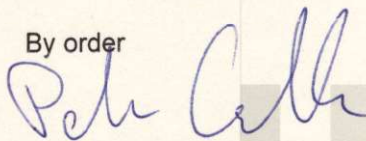
[19]

**Drawings and Documents**

The documents are listed in the test report.

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