

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



[2] Equipment or protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU

[3] EU-type examination certificate number **IBExU19ATEX1134** | Issue 0

[4] Product: **LED hand lamp**  
Type: e9310

[5] Manufacturer: Adolf Schuch GmbH, Lichttechnische Spezialfabrik

[6] Address: Mainzer Straße 172  
67547 Worms  
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, notified body number 0637 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 the Directive.



The examination and test results are recorded in the confidential test report IB-18-3-0068/1.

[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, EN 60079-18:2015, EN 60079-28:2015 and EN 60079-31:2014 except in respect of those requirements listed at item [18] of the schedule.

[10] If the sign "X" 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 EU-type examination certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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

 II 2G Ex eb mb op is IIC T4 Gb  
 II 2D Ex op is tb IIIC T80 °C Db  
-25 °C ≤ T<sub>amb</sub> ≤ +40 °C

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By order

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

Freiberg, 2019-01-14

[13] **Schedule**

[14] **Certificate number IBExU19ATEX1134 | Issue 0**

[15] **Description of product**

The LED hand lamp is used in areas where general lighting is not sufficient. The hand lamp of the separately certified LED-module and the terminals, the handle made of rubber and the light-transmitting cover which is protected by a guard made of steel.

Technical data:

- Rated voltage: 220 ... 240 V AC (50...60 Hz) or 198 ... 264 V DC
- Input power: 11 W (typ.)
- Ambient temperature range: -25 °C ... +40 °C

[16] **Test report**

The test results are recorded in the confidential test report IB-18-3-0068/1 of 2020-01-08.

The test documents are part of the test report and they are listed there.

*Summary of the test results*

The LED hand lamp type e9310 fulfils the requirements of explosion protection for Equipment Group II, Category 2G and 2D, type of protection Increased safety „e“ in combination with encapsulation “m” and protection of equipment and transmission systems using optical radiation “op is” as well as protection by enclosure “tb” in combination protection of equipment and transmission systems using optical radiation “op is”.

[17] **Specific conditions of use**

None

[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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