



[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 **IBExU16ATEX1008 X** | Issue 4

[4] Product: **LED Linear Luminaire**
Type: e 865. and t 868.

[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-24-3-0130.

[9] Compliance with the essential health and safety requirements has been assured by compliance with: EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-5:2015, EN IEC 60079-7:2015/A1:2018, EN 60079-11:2012, EN 60079-18:2015/A1:2017 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:

Type e 865.

 II 2 G Ex eb mb q IIC T4 Gb
 II 2 G Ex db eb mb q IIC T4 Gb
 II 2 G Ex eb ib mb q IIC T4 Gb
 II 2 G Ex db eb ib mb q IIC T4 Gb
 II 2 D Ex tb IIC T80 °C Db
-40 °C ≤ T_{amb} ≤ +70 °C (maximum values)

Type t 868.

 II 2 D Ex tb IIC T80 °C Db
-40 °C ≤ T_{amb} ≤ +70 °C (maximum values)

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By order

Dr.-Ing. P. Cimalla



(notified body number 0637)

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, 2024-12-11

[13] **Schedule**

[14] **Certificate number IBExU16ATEX1008 X | Issue 4**

[15] **Description of product**

The LED linear luminaire type e 865. is used to illuminate factory shops and stores. It is suitable for the operation in hazardous areas requiring equipment of ELP "Gb" or "Db". Type t 868. is exclusively intended for the use in hazardous areas requiring equipment of ELP "Gb" or "Db".

The luminaire consists of the polyester enclosure with fasteners made of stainless steel, the reflector with the assembled LED boards, terminals and LED control gear as well as a light-transmitting cover made of polycarbonate.

Technical data:

- rated voltage: 220...250 V AC (50...60 Hz) or 176...275 V DC
- input power: maximum 75 W
- through wiring/looping: up to 12 x ≥ 2.5 mm² (max. 4 x 16 A)
- ambient temperature range: -40 °C up to +70 °C

These values are maximum values. The actual values by the built-in components and electrical parameter. The manufacturer specifies the rated values in the context of these limiting values and ensures compliance with the maximum surface temperature of the equipment and the permissible operating temperature of the components. Through-wiring, selection of the cable and cable gland may be restricted in some types of the luminaire.

Further details are specified in the operation manual as well as in the documents of the manufacturer, which are part of the test report.

Variations compared to issue 3 of this certificate:

Variation 1

The suffix "X" has been added.

Variation 2

Some housing materials have been requalified for a minimum ambient temperature of -40 °C.

[16] **Test report**

The test results are recorded in the confidential test report IB-24-3-0130 of 2024-11-18. The test documents are part of the test report and they are listed there.

Summary of the test results

The LED linear luminaire type e 865. further fulfils the requirements of explosion protection for Equipment Group II, Category 2G, type of protection increased safety „e“ in combination with encapsulation "m", powder filling "q" as well as flameproof enclosure "d" and intrinsic safety "i" as well as Category 2D in type protection by enclosure "tb".

The LED linear luminaire type t 868. further fulfils the requirements of explosion protection for Equipment Group II, Category 2D, type of protection by enclosure "tb".

[17] **Specific conditions of use**

1. *The luminaire with plastic housing must be installed in a way that it is not exposed to any electrostatic charging mechanisms. Cleaning is permitted only with a damp cloth.*

[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, 2024-12-11



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