



[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** | Issue 2

[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-19-3-0076.

[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 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 2G Ex eb mb q IIC T4 Gb

 II 2G Ex db eb mb q IIC T4 Gb

 II 2G Ex eb ib mb q IIC T4 Gb

 II 2G Ex db eb ib mb q IIC T4 Gb

 II 2D Ex tb IIIC T80 °C Db

$-30\text{ °C} \leq T_{\text{amb}} \leq +70\text{ °C}$ (maximum values)

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

Type t 868* *****

Ex II 2D Ex tb IIIC T80 °C Db
-30 °C ≤ T_{amb} ≤ +70 °C (maximum values)

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By order



Dipl.-Ing. [FH] Henker



- Seal -
(notified body number 0637)

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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, 2020-04-24

[13] **Schedule**

[14] **Certificate number IBExU16ATEX1008** | Issue 2

[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 of zone 1 and 21. Type t 868* ***** is exclusively intended for the use in zone 21.

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.

The use of different internal components distinguishes type t 868* ***** from e 865* *****.

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 $\geq 2.5 \text{ mm}^2$ (max. 4 x 16 A)
- ambient temperature range: -30 °C up to +70 °C

These values are maximum values. The actual values are determined by the built-in components. The manufacturer specified the rated values and ambient temperature range 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.

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 1 of this certificate:

Variation 1

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

Variation 2

A new type of enclosure has been added.

[16] **Test report**

The test results are recorded in the confidential test report IB-19-3-0076 of 2020-04-24.

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”.

Safety Instructions

The plastic housing is to protect against intense charging processes.

Cleaning is permitted only with a damp cloth.

[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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Freiberg, 2020-04-24