

IBExU Institut für Sicherheitstechnik GmbH

An-Institut der TU Bergakademie Freiberg



[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 1

[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-16-3-119.






[9] Compliance with the essential health and safety requirements has been assured by compliance with: EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-5:2015, EN 60079-7:2015, EN 60079-11:2012, 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 one of the following depending on the used components:

type e 865* *****

-  II 2G Ex eb mb op is q IIC T4 Gb
-  II 2G Ex db eb mb op is q IIC T4 Gb
-  II 2G Ex eb ib mb op is q IIC T4 Gb
-  II 2G Ex db eb ib mb op is q IIC T4 Gb
-  II 2D Ex op is tb IIIC T80 °C Db

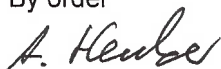
type t 868* *****

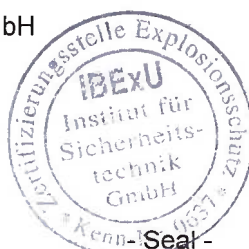
 II 2D Ex tb op is IIIC T80 °C Db

-30 °C up to +70 °C (maximum values)

IBExU Institut für Sicherheitstechnik GmbH
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By order


Dipl.-Ing. [FH] Henker



Seal -
(Notified Body number 0637)

Tel: + 49 (0) 37 31 / 38 05 0
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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, 2016-07-20

[13]

Schedule

[14]

Certificate number IBExU16ATEX1008 | Issue 1

[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 components internal 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 specifies 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. 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 0 of this certificate:

Variation 1

The luminaires may be provided with a separately certified switch and an additional monitoring module.

Variation 2

The enclosure may be manufactured with an alternative plastic material.

[16] **Test report**

The test results are recorded in the confidential test report IB-16-3-119 of 01.07.2016.

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* ***** and type t 868* ***** fulfil the requirements of explosion protection for Equipment Group II, Category 2G and 2D, type of protection Increased safety „e“ in combination with encapsulation “m”, powder filling “q” as well as flameproof enclosure “d” and intrinsic safety “i” 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”.

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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