

**[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 **IBExU17ATEX1132** | Issue 0
- [4] Product: **Explosion protected LED Luminaire and LED Emergency Light Fitting**  
LED Luminaire Type e855.L..  
LED Emergency Light Fitting Type e856.L../.
- [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-16-3-056.
- [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 following:

Type e855

II 2G Ex eb mb op is q IIC T4 Gb

II 2G Ex db eb mb op is q IIC T4 Gb

II 2D Ex op is tb IIIC T80 °C Db

-30 °C ≤ T<sub>amb</sub> ≤ +60 °C (maximum values)

Type e856.L../.

II 2G Ex db eb [ib] mb op is q IIC T4 Gb

II 2D Ex op is tb IIIC T80 °C Db

-30 °C ≤ T<sub>amb</sub> ≤ +60 °C (maximum values)

IBExU Institut für Sicherheitstechnik GmbH  
Fuchsmühlenweg 7  
09599 Freiberg, GERMANY

By order

Dipl.-Ing. [FH] Henker



(notified body number 0637)

Tel: + 49 (0) 37 31 / 38 05 0

Fax: + 49 (0) 37 31 / 38 05 10

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, 2017-12-15

**[13] Schedule****[14] Certificate number IBExU17ATEX1132 | Issue 0****[15] Description of product**

The LED Emergency Light Fitting of type e856.L../. is a LED luminaire with emergency light function that is suitable for use in areas with potentially explosive gas and dust atmospheres which require equipment of category 2G or 2D. The luminaire consists of a polyester enclosure, an assembly plate / reflector with one or more LED modules in encapsulation, LED emergency electronic and terminals and a light-transmitting cover made of polycarbonate as well as one or more flameproof switches. Additionally, the luminaire is equipped with a replaceable battery pack for emergency light function. The battery pack is either mounted in the housing or a separate enclosure that is attached to the side of the luminaire. The state of operation is indicated by a coloured LED. This LED is inside the enclosure and has been considered as simple apparatus. Optionally, the output current for supplying the LEDs may be set by means of a DALI-Interface.

The LED luminaire type e855.L.. does not provide emergency operation.

Technical data:

- Nominal input voltage: 220 V...240 V AC (e855, e856)  
176 V...275 V DC (e855)
- Input power: up to 20 W (typically)
- Battery: NiCd 6 V / 2.5 Ah or  
NiCd 6 V / 1.6 Ah
- Through-wiring: up to 5 x  $\geq 2,5 \text{ mm}^2$  (max. 4 x 16 A)
- Ambient temperature range: -30 °C...+60 °C

These values are maximum values. The actual values are determined by the built-in components. 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.

**[16] Test report**

The test results are recorded in the confidential test report IB-16-3-056 of 2017-12-15.

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

Summary of the test results

The LED Emergency Light Fitting type e856.L../. 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”, 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”.

The LED Luminaire type e855.L.. 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”, powder filling “q” as well as flameproof enclosure “d” 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.

IBExU Institut für Sicherheitstechnik GmbH  
Fuchsmühlenweg 7  
09599 Freiberg, GERMANY

By order



Dipl.-Ing. [FH] Henker

Freiberg, 2017-12-15