IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx IBE 17.0037 Issue No: 0 Certificate history: Issue No. 0 (2017-12-21)

Status: **Current**

Date of Issue: **2017-12-21**

Applicant: **Adolf Schuch GmbH, Lichttechnische Spezialfabrik**
Mainzer Straße 172
67547 Worms
Germany

Equipment: **Explosion protected LED Luminaire type e855.L.. and LED Emergency Light Fitting e856.L.././.**

Optional accessory:

Type of Protection: **Increased safety "e" in combination with encapsulation "m" and "q" and protection by enclosure "t"**

Marking:

Type e855.L..
Ex eb mb op is q IIC T4 Gb
Ex db eb mb op is q IIC T4 Gb
Ex op is tb IIIC T80 °C Db
-30 °C ≤ T_{amb} ≤ +60 °C (maximum values)

Type e856.L.././.
Ex db eb [ib] mb op is q IIC T4 Gb
Ex op is tb IIIC T80 °C Db
-30 °C ≤ T_{amb} ≤ +60 °C (maximum values)

Approved for issue on behalf of the IECEx Certification Body: Dipl.-Ing. Alexander Henker

Position: Deputy Head of Certification Body

Signature:
(for printed version)

Date: 2017-12-21

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

IBExU Institut für Sicherheitstechnik GmbH
Certification Body
Fuchsmühlenweg 7
09599 Freiberg
Germany

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Manufacturer: **Adolf Schuch GmbH, Lichttechnische Spezialfabrik**
Mainzer Straße 172
67547 Worms
Germany

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-18 : 2014 Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation “m”
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-5 : 2015 Edition:4.0	Explosive atmospheres –Part 5: Equipment protection by powder filling “q”
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

DE/IBE/ExTR16.0017/00

Quality Assessment Report:

DE/PTB/QAR09.0004/04

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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 EPL Gb or Db. 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 ≥ 2,5 mm² (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 contex 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.

SPECIFIC CONDITIONS OF USE: NO