



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

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Issue 0 (2016-03-10)

Status: **Current** Issue No: 1

Date of Issue: 2016-07-20

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

Equipment: **LED linear luminaire type e 865\* \*\*\*\*\* and t 868\* \*\*\*\*\***

Optional accessory:

Type of Protection: **Increased safety, encapsulation, powder filling, inherently safe optical radiation, intrinsic safety, flameproof enclosure, protection by enclosure**

Marking: type e 865\* \*\*\*\*\* (depending on the components used)  
Ex eb mb op is q IIC T4 Gb  
Ex db eb mb op is q IIC T4 Gb  
Ex eb ib mb op is q IIC T4 Gb  
Ex db eb ib mb op is q IIC T4 Gb  
Ex op is tb III C T80 °C Db  
  
type t 868\* \*\*\*\*\*  
Ex op is tb III C T80 °C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Prof. Dr. Tammo Redeker**

Position:

**Head of Certification Body**

Signature:  
(for printed version)

Date:

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



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  
locations:

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 equipment 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** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

**IEC 60079-18:2014** Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"  
Edition:4.0

**IEC 60079-28:2015** Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

**IEC 60079-5:2015** Explosive atmospheres –Part 5: Equipment protection by powder filling "q"  
Edition:4.0

**IEC 60079-7:2015** Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

This Certificate **does not** indicate compliance with 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 Reports:

[DE/IBE/ExTR15.0002/00](#)

[DE/IBE/ExTR15.0002/01](#)

Quality Assessment Report:

[DE/PTB/QAR09.0004/03](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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) 176...275 V DC
input power:	up to 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. The corresponding rated values / restrictions are indicated in the manufacturer's instructions.

**SPECIFIC CONDITIONS OF USE: NO**



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

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

The enclosure may be manufactured with an alternative plastic material.