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

Certificate No.:	**IECEx IBE 15.0015X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 3	Issue 2 (2022-03-21) Issue 1 (2020-12-18) Issue 0 (2016-03-10)
Date of Issue:	2025-03-28		

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

Equipment: **LED-Light Fitting type nD866...L... and LED Emergency Light Fitting type nD867...L...**

Optional accessory:

Type of Protection: **increased safety in combination with flameproof enclosure, powder filling, encapsulation and intrinsic safety or protection by enclosure**

Marking:

Type nD 866...L...
Ex ec IIC T4 Gc
Ex ec q IIC T4 Gc
Ex db ec IIC T4 Gc
Ex ec ib mb IIC T4 Gc
Ex tc IIIC T80 °C Dc

-40 °C ≤ T_{amb} ≤ +65 °C (maximum values)

Type nD 867...L...
Ex ec IIC T4 Gc
Ex db ec IIC T4 Gc
Ex tc IIIC T80 °C Dc

-30 °C ≤ T_{amb} ≤ +55 °C (maximum values)

Approved for issue on behalf of the IECEx Certification Body: **Kai Willamowski**

Position: **Head of department Certification Body**

Signature:
(for printed version)

Date:
(for printed version) 28.03.2025

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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 or use of this QR Code.

Certificate issued by:

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg
Germany

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Certificate No.: **IECEx IBE 15.0015X**

Date of issue: 2025-03-28

Issue No: 3

Manufacturer: **Adolf Schuch GmbH, Lichttechnische Spezialabrik**
Mainzer Str. 172, 67547 Worms
Germany

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 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1:2014 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 60079-18:2017 Edition:4.1	Explosive atmospheres - Part 18: Protection by encapsulation "m"
IEC 60079-31:2022 Edition:3.0	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 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

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/ExTR15.0039/00
DE/IBE/ExTR15.0039/01
DE/IBE/ExTR15.0039/02
DE/IBE/ExTR15.0039/03

Quality Assessment Report:

DE/IBE/QAR24.0001/01

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The LED-Light Fitting type nD866…L… and LED Emergency Light Fitting type nD867…L… are used to illuminate factory and depot sites in areas with potentially gas and dust explosive requiring equipment of EPL Gc or Dc. The luminaire consists of a polyester enclosure with fasteners made of stainless steel, a reflector with assembled LED boards, LED control gear and terminals, as well as a light-transmitting cover made of polycarbonate.
LED Emergency Light Fitting type nD867…L… provides an emergency light function. It uses an alternate LED control gear and a rechargeable and changeable battery pack in difference to type nD866. The battery pack is either in the housing or in a separate battery housing which is assembled to the side of the luminaire. Service and fault conditions are indicated by means of coloured LED which is inside the luminaire.
The output current for supplying the LED modules may be set by means of DALI interface.
Both types may be equipped with coloured LED.

Technical data:

Rated voltage:	nD866: 220 … 240 V AC (50…60 Hz) or 176 … 275 V DC nD867: 220 … 240 V AC (50…60 Hz)
Input power:	nD866: up to 77 W (typically) nD867: up to 41 W (typically)
Battery:	NiCd 6 V / 4 Ah NiCd 6 V / 1.6 Ah NiMH 6 V / 4 Ah
Through-wiring / looping:	up to 12 x ≥ 2.5 mm² (max. 4 x 16 A)
Ambient temperature range:	-40 °C…+65 °C (Type nD 866…L…) -30 °C…+55 °C (Type nD 867…L…)

These values are maximum values. The actual values are determined by the built-in components. The manufacturer specified 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 cable and cable glands may be restricted in some types of the luminaire.

SPECIFIC CONDITIONS OF USE: YES as shown below:
The luminaire shall be installed in a way that it is not exposed to any electrostatic charging mechanisms. Cleaning is permitted only with a damp cloth.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
The use of new batterietypes has been assessed.
New versions have been added.
Some housing materials have been requalified for a minimum ambient temperature of -40 °C.
A new QAR has been provided.