



# 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)

Certificate No.:	<b>IECEx IBE 22.0021X</b>	Page 1 of 3	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 0	
Date of Issue:	2025-03-06		
Applicant:	<b>Adolf Schuch GmbH</b> Lichttechnische Spezialfabrik Mainzer Straße 172 67547 Worms Germany		
Equipment:	<b>LED-Floodlight type nD8700 and nD8800</b>		
Optional accessory:			
Type of Protection:	<b>Restricted breathing device "nR" and protection by enclosure "tc"</b>		
Marking:	Ex nR IIC T4 Gc Ex tc IIIC T100 °C Dc -30 °C ≤ T <sub>a</sub> ≤ +65 °C (maximum values)		

Approved for issue on behalf of the IECEx  
Certification Body:

**Dr.-Ing. Peter Cimalla**

Position:

**Deputy Head of department Certification Body**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**IBExU Institut für Sicherheitstechnik GmbH**  
Fuchsmühlenweg 7  
09599 Freiberg  
Germany





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Manufacturer: **Adolf Schuch GmbH**  
Lichttechnische Spezialfabrik  
Mainzer Straße 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** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-15:2017** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:5.0

**IEC 60079-31:2022** Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

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 Report:

**DE/IBE/ExTR22.0023/00**

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-Floodlight type nD8700 and nD8800 is used to illuminate factory and depot sites in areas with potentially gas and dust explosive atmospheres requiring equipment of EPL Gc or Dc.

The LED-Floodlight consists of an aluminum housing with a hinged cover in which a safety glass pane is installed. The housing contains assembled LED modules, which are fitted with different optics, as well as the LED control gear, connection terminals and if necessary fuse terminals (for versions for central battery).

The LED-Floodlight can be mounted by using a bracket which is screwed into holes in the housing.

## Technical data:

Rated voltage: 220 ... 240 V AC (50...60 Hz) or  
176 ... 275 V DC  
(depending on version)

Input power: maximum 140 W (nD8700)  
maximum 280 W (nD8800)

Ambient temperature: -30 °C to +65 °C (maximal values)

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

## SPECIFIC CONDITIONS OF USE: YES as shown below:

The LED-Floodlight shall not be exposed to high electrostatic charging processes.

The LED-Floodlight special versions SWP shall be protected and must be installed in such way, that they are not exposed to electrostatic charging processes. Cleaning is permitted only with a damp cloth.

Only cable glands with gaskets shall be used.

## Annex:

[Annex\\_IBE22.0021X.pdf](#)



# IECEx Certificate of Conformity - Annex



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List of versions:

Type	minimum ambient temperature, depending on internal components used	maximum ambient temperature, depending on internal components used
nD8700 6403	-30 °C	+40 °C or +45 °C or +50 °C
nD8700 6402	-30 °C	+50 °C or +55 °C or +60 °C
nD8700 6401	-30 °C	+55 °C or +60 °C
nD8700 4803	-30 °C	+40 °C or +50 °C or +55 °C
nD8700 4802	-30 °C	+50 °C or +60 °C
nD8700 4801	-30 °C	+60 °C or +65 °C
nD8700 3203	-30 °C	+45 °C or +50 °C
nD8700 3202	-30 °C	+45 °C or +50 °C
nD8700 3201	-30 °C	+45 °C or +50 °C
nD8700 1603	-30 °C	+55 °C
nD8700 1602	-30 °C	+55 °C
nD8700 1601	-30 °C	+55 °C
nD8800 6403	-30 °C	+40 °C or +50 °C or +55 °C
nD8800 6402	-30 °C	+50 °C or +55 °C or +60 °C
nD8800 6401	-30 °C	+55 °C or +60 °C or +65 °C
nD8800 12803	-30 °C	+45 °C
nD8800 12802	-30 °C	+45 °C or +50 °C or +55 °C
nD8800 12801	-30 °C	+50 °C or +55 °C or +60 °C