



# 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](http://www.iecex.com)

Certificate No.: IECEx PTB 12.0057 Issue No: 0 Certificate history:  
Issue No. 0 (2012-10-19)

Status: **Current** Page 1 of 4

Date of Issue: **2012-10-19**

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

Equipment: **LED - flood light d9000**  
Optional accessory:

Type of Protection: **"flameproof enclosure", "Increased safety", "Protection by enclosure", "Inherently safe optical radiation"**

Marking:  
Ex d e op is IIB or IIC T6 or T4 Gb  
Ex tb IIIC T80 °C or T90 °C Db

Approved for issue on behalf of the IECEx  
Certification Body:

Uwe Voelkel

Position:

Section "Flameproof Enclosure"

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Physikalisch-Technische Bundesanstalt (PTB)**  
Bundesallee 100  
38116 Braunschweig  
Germany





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Page 2 of 4

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

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-28 : 2006-08</b> Edition:1	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
<b>IEC 60079-31 : 2008</b> Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
<b>IEC 60079-7 : 2006-07</b> Edition:4	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/PTB/ExTR12.0075/00](#)

Quality Assessment Report:

[DE/PTB/QAR09.0004/01](#)



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Certificate No: IECEx PTB 12.0057

Issue No: 0

Date of Issue: 2012-10-19

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

LED - flood light

For all technical details refer to Annex hereto.

**CONDITIONS OF CERTIFICATION: NO**



# IECEx Certificate of Conformity

Certificate No: IECEx PTB 12.0057

Issue No: 0

Date of Issue: 2012-10-19

Page 4 of 4

## Additional information:

**Warning note** The enclosure shall be provided with either of the following warnings: "Wait 1 hour (T4) / 6 hours (T6) after disconnecting the unit before opening!" or "Do not open within potentially explosive area!". The user shall be informed of these conditions accordingly, e.g. with a note included in the operating instruction. The LED – flood light shall be provided with the following warning: "Do not open when energized!". The user shall be informed of these conditions accordingly, e.g. with a note included in the operating instruction.

## Annex:

[CoC\\_Content IECEx PTB 12.0057.pdf](#)



Applicant: Adolf Schuch GmbH

Electrical Apparatus: LED - flood light fitting type d 9000/\*\*\*\* XX

**Description of equipment:**

The explosion-proof LED-flood light of type d 9000/\*\*\*\*XX is designed in type of protection „d“. The floodlight consists of the enclosure with moulded terminal compartment, designed to type of protection “e”, as well as the glass frame with single-pane safety glass cover.

**Technical data:**

Ambient temperature range

-50 °C / -20 °C ≤ Ta ≤ +40 °C / +50 °C / +60 °C / +70 °C

Electrical ratings:

Rated voltage:	110 V – 277 V (AC), depending on type 110 V – 250 V (DC), depending on type
Rated frequency:	0 Hz/50 Hz/60 Hz
Rated power:	depending on LED type and current
IP Code acc. to IEC 60598 and IEC 60529:	IP 67



**Temperature data:**

Type of flood light	T <sub>amb</sub> [°C]	Temperature class	Surface temperature [°C]	Cable Min. thermal endurance [°C]	Cable entry Min. thermal endurance [°C]
d 9000/4201	40	T6	80	70	70
d 9000/4201	40	T4	80	70	70
d 9000/4201	50	T4	80	70	70
d 9000/4201	60	T4	80	70	70
d 9000/4201	70	T4	90	80	80
d 9000/4202	40	T6	80	70	70
d 9000/4202	40	T4	80	70	70
d 9000/4202	50	T4	80	70	70
d 9000/4202	60	T4	80	80	80
d 9000/4203	40	T6	80	70	70
d 9000/4203	40	T4	80	70	70
d 9000/4203	50	T4	80	70	70
d 9000/4204	40	T6	80	70	70
d 9000/4204	40	T4	80	70	70

**Nomenclature:**

Type: d9000/\*\*\*\* XX

Character d	main type of ignition protection “d” in connection with protective enclosure
Digits no.1,2,3 4.	range
Digits no. 5,6,7,8	wattage of flood light
Additional characters/digits	LO: Lens optic (angle range: M, WW, ..) HT, TT: extension of temperature range generation, special version

**Warning note**

The enclosure shall be provided with either of the following warnings: “Wait 1 hour (T4) / 6 hours (T6) after disconnecting the unit before opening!” or “Do not open within potentially explosive area!”. The user shall be informed of these conditions accordingly, e.g. with a note included in the operating instruction.

The LED – flood light shall be provided with the following warning: “Do not open when energized!”. The user shall be informed of these conditions accordingly, e.g. with a note included in the operating instruction.