



(1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in
Potentially Explosive Atmospheres - **Directive 94/9/EC**

(3) EC-type-examination Certificate Number:

PTB 10 ATEX 1002 X



(4) Equipment: Ex-protected spotlight, type d 3000/**** XX

(5) Manufacturer: Adolf Schuch GmbH

(6) Address: Mainzer Straße 172, 67547 Worms, Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential assessment and test report PTB Ex 10-10002.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2009

EN 60079-1:2007

EN 60079-7:2007

EN 60079-31:2009

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:



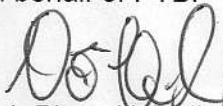
II 2 G Ex db eb IIC T4, T3, T2



II 2 D Ex tb IIIC T...°C IP66/67

Zertifizierungssektor Explosionsschutz

On behalf of PTB:


Dipl.-Phys. U. Völkel



Braunschweig, September 3, 2010

(13) SCHEDULE

(14) EC-TYPE-EXAMINATION CERTIFICATE PTB 10 ATEX 1002 X

(15) Description of equipment

The explosion-protected spotlight, type d 3000/..., is designed to comply with "d" protection requirements and can be fitted with a tungsten-halogen lamp or a discharge lamp. The spotlight consists of an enclosure with a potted type of protection "e" terminal compartment, the glass frame with single-pane safety glass cover and the reflector.

Admissible ambient temperatures : -20 °C to +40 °C / +50 °C / +55 °C

Electrical data and temperature classes:

| Type name | <u>Rated voltage</u> | Max. ambient temperature | Temperature class | Max. surface temperature |
|----------------|----------------------|--------------------------|-------------------|--------------------------|
| d 3000/200 E27 | 220, 230 | 40 | T4 | 130 |
| d 3000/250 QT | 220, 230 | 55 | T3 | 170 |
| d 3000/300 QT | 120 | 50 | T3 | 170 |
| d 3000/500 QT | 120, 220, 230 | 50 | T2 | 240 |
| d 3000/125 | 220, 230, 240 | 55 | T4 | 120 |
| d 3000/250 | 220, 230, 240 | 40 | T3 | 150 |
| d 3000/150 HI | 220, 230, 240 | 40 | T4 | 120 |
| d 3000/150 HI | 220, 230, 240 | 55 | T3 | 130 |
| d 3000/250 HI | 220, 230, 240 | 40 | T3 | 160 |
| d 3000/50 HS | 220, 230, 240 | 55 | T4 | 100 |
| d 3000/70 HS | 220, 230, 240 | 55 | T4 | 100 |
| d 3000/100 HS | 220, 230, 240 | 55 | T4 | 110 |
| d 3000/150 HS | 220, 230, 240 | 40 | T4 | 130 |
| d 3000/150 HS | 220, 230, 240 | 55 | T3 | 140 |
| d 3000/250 HS | 220, 230, 240 | 40 | T3 | 160 |

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 10 ATEX 1002 X

Type code:

d 3000/**** XX

| | | | | | | |
|--|--|--|-------|---|-----|--|
| | | | ----- | Lamp type: | QT | Tungsten-halogen lamp |
| | | | | | - | High-pressure mercury-vapour lamp |
| | | | | | HI | Metal-halide lamp |
| | | | | | HS | High-pressure sodium-vapour lamp |
| | | | | | E27 | General-service tungsten-filament lamp |
| | | | ----- | Lamp wattage | | |
| | | | ----- | Type series | | |
| | | | ----- | Protection "d" in connection with Protection by Enclosure | | |

A detailed description, technical data and related documents form part of the test documents that are attached to the Test Report.

(16) Assessment and test report PTB Ex 10-10002

(17) Special conditions for safe use

Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repair according to the values in table 1 resp. table 2 of EN 60079-1:2007 is not permissible.

Additional notes for safe operation:

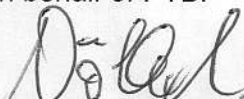
The enclosure must carry either of the following two warnings: "Wait 10 minutes before opening the unit after it has been stopped!" or: "Do not open within the potentially explosive atmosphere!". The operating company must be informed of these requirements, i.e. with a note in the operating instructions.

The luminaire must carry the following warning: "Do not open when alive!". The operating company must be informed of these requirements, i.e. with a note in the operating instructions.

(18) Essential health and safety requirements

Met by compliance with the afore-mentioned Standards.

Zertifizierungssektor Explosionsschutz
On behalf of PTB:


Dipl.-Phys. U. Völkel



Braunschweig, September 3, 2010

sheet 3/3

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.