

This is a translation from the original german ATEX certificate (attached)

Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

PTB logo

(1) TYPE EXAMINATION CERTIFICATE



(2) – Directive 94/9/EC –
Equipment and protective systems intended for use
in potentially explosive atmospheres

(3) EC type examination certificate number
PTB 03 ATEX 1230

(4) Equipment: Flash lamp type dSF

(5) Manufacturer: J. Auer Fabrik elektrischer Maschinen GmbH

(6) Address: Siebertgasse 24, 1120 Wien, Austria

(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 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 confidential test report PTB Ex 03-13381.

(9) The Essential Health and Safety Requirements has been assured by compliance with:
EN 50014:1997 EN 50018:1994 EN 50019:1994

(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 2G EEx de IIC T6

Zertifizierungsstelle Explosionsschutz
By order:
Dr.-Phys. U. Völkel seal

Braunschweig, January 23, 2004

(13) Schedule

(14) EC-TYPE EXAMINATION CERTIFICATE
PTB 03 ATEX 1230

(15) Description of equipment

The flash lamp type dSF is composed of a closed compartment for the xenon tube with control module designed in the type of protection "d" flameproof enclosure and a terminal compartment designed in the type of protection "e" increased safety.

The detailed description, technical data and concerned documentation are determined in the examination documentation as annex to the test report.

Permissible ambient temperature range: -20 °C to +40 °C

(16) Test report PTB Ex 03-13381

(17) Special conditions for safe use

None

(18) Essential health and safety requirements


Met by correspondence to the standards mentioned above.

Zertifizierungsstelle Explosionsschutz
By order:
Dipl.-Phys. U. Völkel seal

Braunschweig, January 23, 2004

1. SUPPLEMENT
according to Directive 94/9/EC Annex III.6
to EC-TYPE-EXAMINATION CERTIFICATE
PTB 03 ATEX 1230

Equipment: Flash lamp type dSF

Marking:  II 2 G EEx de IIC T6

Manufacturer: J. Auer Fabrik elektrischer Maschinen GmbH

Address: Perfektastrasse 102, 1230 Wien, Austria

Description of supplements and modifications


- Conversion to the new generation of standards
- Extension for use in potentially explosive atmospheres as a mixture of dust and air

Applied standards

EN 60079-0:2006 EN 60079-1:2004 EN 60079-7:2007
EN 61241-0:2006 EN 61241-1:2004

Test report PTB Ex 08-18190

The marking will thus change to

 II 2 G Ex de IIC T6
 II 2 D Ex tD A21 IP66 T 80 °C

Zertifizierungsstelle Explosionsschutz
By order:
Dr.-Ing. U. Klausmeyer seal
Direktor und Professor

Braunschweig, September 12, 2008

2. SUPPLEMENT
according to Directive 94/9/EC Annex III.6
to EC-TYPE-EXAMINATION CERTIFICATE
PTB 03 ATEX 1230

Equipment: Flash lamp type dSF and type dSD

Marking:  II 2 G Ex de IIC T6
 II 2 D Ex tD A21 IP66 T 80 °C

Manufacturer: J. Auer Fabrik elektrischer Maschinen GmbH

Address: Perfektastrasse 102, 1230 Wien, Austria

Description of supplements and modifications

- The electrical construction inside the equipment is supplemented by the "Monitoring" module...
- The number of the connection terminals is doubled including another connection.
- Installation of a high-power LED (white) of the manufacturer Osram.

Applied standards

EN 60079-0:2006	EN 60079-1:2004	EN 60079-7:2007
EN 61241-0:2006	EN 61241-1:2004	

Assessment and Test report PTB Ex 09-19065

Zertifizierungsstelle Explosionsschutz

Braunschweig, March 20, 2009



By order:

Dr.-Ing. U. Klausmeyer seal

Direktor und Professor

3. SUPPLEMENT
according to Directive 94/9/EC Annex III.6
to EC-TYPE-EXAMINATION CERTIFICATE
PTB 03 ATEX 1230



Equipment: Flash lamp type dSF and type dSD

Marking:  II 2 G Ex de IIC T6
 II 2 D Ex tD A21 IP66 T 80 °C

Manufacturer: J. Auer Fabrik elektrischer Maschinen GmbH

Address: Perfektastrasse 102, 1230 Wien, Austria

Description of supplements and modifications

- Increase of the ambient temperature range to +55 °C → T5 or T95 °C
(not the LED variants)
The marking will thus change to
 II 2 G Ex de IIC T5, T6
 II 2 D Ex tD A21 IP66 T95 °C, T80 °C
- Reduction of the ambient temperature range to -40 °C and -55 °C
- The variant 115 V AC ± 10% with 15 Ws is added to the flash lamp type dSF

Applied standards

EN 60079-0:2006	EN 60079-1:2004	EN 60079-7:2007
EN 61241-0:2006	EN 61241-1:2004	



Assessment and Test report PTB Ex 10-10107

Zertifizierungsstelle Explosionsschutz
By order:
Dr.-Ing. M. Thedens seal
Oberregierungsrat

Braunschweig, October 27, 2010

4. SUPPLEMENT
according to Directive 94/9/EC Annex III.6
to EC-TYPE-EXAMINATION CERTIFICATE
PTB 03 ATEX 1230

Equipment: Flash lamp type dSF and type dSD

Marking:  II 2 G Ex de IIC T5, T6
 II 2 D Ex tD A21 T95 °C, T 80 °C IP66

Manufacturer: J. Auer Fabrik elektrischer Maschinen GmbH

Address: Perfektastrasse 102, 1230 Wien, Austria

Description of supplements and modifications

- Extension of LED light intensity range and partially change of wave length range
- Application of a respiration plug
- Extension of the lower ambient temperature to -55 °C.

Applied standards

EN 60079-0:2006 EN 60079-1:2004

Assessment and Test report PTB Ex 11-11175

Zertifizierungsstelle Explosionsschutz
By order:
Dipl.-Phys. U. Völkel seal

Braunschweig, September 21, 2011