

Translation

(1) 1st Supplement to the EC-Type Examination Certificate

- (2) Equipment and protective systems intended for use
in potentially explosive atmospheres - Directive 94/9/EC
- (3) No. of EC-Type Examination Certificate: **BVS 08 ATEX E 133**
- (4) Equipment: **Ex-Leuchte Typ USL 05-Ex**
- (5) Manufacturer: **F.H. Papenmeier GmbH & Co. KG**
- (6) Address: **Talweg 2, 58239 Schwerte, Germany**
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in
the appendix to this type examination certificate.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9
of the Directive 94/9/EC of the European Parliament and the Council 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 test and assessment report BVS PP 09.2096 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- EN 60079-0:2009 General requirements**
EN 60079-1:2007 Flameproof enclosure 'd'
EN 60079-31:2009 Protection by Enclosures 't'
- (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 appendix to this certificate.
- (11) This supplement of the EC-Type Examination Certificate relates only to the design, examination
and tests of the specified equipment in accordance to 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 supplement.
- (12) The marking of the equipment shall include the following:



II 2G Ex d IIC T* Gb

II 2D Ex tb IIIC T*°C Db**

See Parameters for temperature class / surface temperature

DEKRA EXAM GmbH
Bochum, dated 20th June 2012

Signed: Simanski

Certification body

Signed: Leiendecker

Special services unit

(13) Appendix to

(14) **1st Supplement to the EC-Type Examination Certificate**
BVS 08 ATEX E 133

(15) 15.1 Subject and type

Ex-lamp type USL 05-Ex

15.2 Description

The enclosure of the Ex-lamp type USL05-Ex consists of two parts, a body and a screw cap.
The light-permitting part is glued into the screw cap.

An O-ring gasket has been inserted into the front face of the body for purpose of sealing.

This supplement is issued to ensure the compliance of the equipment with the updated versions of the applicable standards.

15.3 Parameters

Temperature classification for type USL 05-Ex

Variant	Nominal voltage	Ambient temperature range	
		-20°C ≤ Ta ≤ +40°C	-20°C ≤ Ta ≤ +60°C
12 V / 5 W	12 V AC/DC	T6 / T 80 °C	T4 / T 130 °C
115 V / 12 V / 5 W	115 V AC	T6 / T 80 °C	T4 / T 130 °C
230 V / 12 V / 5 W	230 V AC	T6 / T 80 °C	T4 / T 130 °C
12 V / 20 W	12 V AC/DC	T4 / T 130 °C	T3 / T 195 °C
24 V / 20 W	24 V AC/DC	T4 / T 130 °C	T3 / T 195 °C
24 V / 20 W	24 V AC/DC	120 °C / T 120 °C	----
24 V / 20 W (f ≤ 1 Hz)	24 V AC/DC	120 °C / T 120 °C	----
230 V / 4 W	230 V AC/DC	----	T6 / T 80 °C

(16) Test and assessment report

BVS PP 09.2096 EG, as of 20.06.2012

(17) Special conditions for safe use

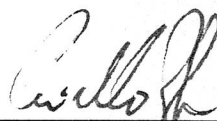
Still not applicable

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
44809 Bochum, 11.07.2012
BVS-Kir/Ar E 1366/12



Certification body



Special services unit



Translation

EC-Type Examination Certificate

- Directive 94/9/EC -

Equipment and protective systems intended for use
in potentially explosive atmospheres

BVS 08 ATEX E 133

- (4) **Equipment:** Ex-lamp type USL 05-Ex
- (5) **Manufacturer:** F.H. Papenmeier GmbH & Co. KG
- (6) **Address:** 58239 Schwerte, Germany
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council 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 test and assessment report BVS PP 09.2096 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- EN 60079-0:2006 General requirements
 - EN 60079-1:2007 Flameproof Enclosure
 - EN 61241-0:2006 General requirements
 - EN 61241-1:2004 Protection by Enclosures
- (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 appendix to this certificate.
- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to 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 Ex d IIC *

II 2D Ex tD A21 IP67 *

The values replacing the asterisks are listed under 15.3 Parameters

DEKRA EXAM GmbH

Bochum, dated 25th June 2009

Signed: Simanski

Certification body

Signed: Dr. Eickhoff

Special services unit

(13)

Appendix to

(14)

EC-Type Examination Certificate

BVS 08 ATEX E 133

(15)

15.1 Subject and type

Ex-lamp type USL 05-Ex

15.2 Description

The enclosure of the Ex-lamp type USL05-Ex consists of two parts, a body and a screw cap. The light-permitting part is glued into the screw cap, and an O-ring gasket has been inserted into the front face of the body for purpose of sealing.

This EC-Type Examination Certificate is based on certificate PTB 98 ATEX 2200 – including all supplements – which deals with category 2G, and certificate BVS 06 ATEX E 010 which deals with category 2D.

15.3 Parameters

Temperature classification type USL 05-Ex

Type USL 05-Ex	Rated voltage	Ambient temperature range	
		$-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	$-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
12V / 5W	12 V AC/DC	T6 / T 80°C	T4 / T 130°C
115V/12V / 5W	115 V AC	T6 / T 80°C	T4 / T 130°C
230V/12V / 5W	230 V AC	T6 / T 80°C	T4 / T 130°C
12V / 20W	12 V AC/DC	T4 / T 130°C	T3 / T 195°C
24V / 20W	24 V AC/DC	T4 / T 130°C	T3 / T 195°C
24V / 20W	24 V AC/DC	120°C / T 120°C	----
24V / 20W ($f \leq 1$ Hz)	24 V AC/DC	120°C / T 120°C	----
230V / 4W	230 V AC/DC	----	T6 / T 80°C

(16)

Test and assessment report

BVS PP 09.2096 EG as of 25.06.2009

(17)

Special conditions for safe use

None

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

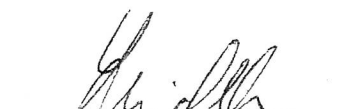
44809 Bochum, 02.07.2009

BVS-Kr/Ld/Ar A 20080669

DEKRA EXAM GmbH



Certification body



Special services unit