

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 134**
- (4) Equipment: **Ex-Leuchte Typ USL 45A-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 06.2114 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 120°C Gb

II 2D Ex tb IIIC T120°C Db

See Parameters for temperature class / surface temperature

DEKRA EXAM GmbH
Bochum, dated 22nd 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 134

(15) 15.1 Subject and type

Ex-lamp type USL 45A-Ex

15.2 Description

The enclosure of the Ex-lamp type USL45A-Ex consists of two parts, a body and a screw cap. The light-permitting part is glued into the screw cap.

The lamp can be equipped with coloured displays then serving as vehicle light or signal light. It is equipped with luminaires of 12V/5W and operated with a supply voltage of 12V or, in conjunction with two series resistors, with a supply voltage of 24 V.

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

15.3.1 Electrical Parameters

Rated voltage	12	or	24	V	AC/DC
Power		up to	5	W	

15.3.2 Thermal parameters

Ambient temperature range	-20°C to +40°C
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(16) Test and assessment report


BVS PP 06.2114 EG, as of 22.06.2012

(17) Special conditions for safe use

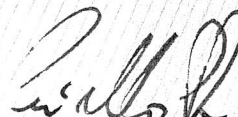
Still not applicable

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

(1) EC-Type Examination Certificate

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

(3) **BVS 08 ATEX E 134**

(4) **Equipment:** Lamp type USL 45A-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 06.2114 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 120°C

II 2D Ex tD A21 IP67 T120°C

DEKRA EXAM GmbH

Bochum, dated 03. July 2009

Signed: Simanski

Signed: Dr. Wittler

Certification body

Special services unit

(13) Appendix to

(14) **EC-Type Examination Certificate**

BVS 08 ATEX E 134

(15) 15.1 Subject and type

Lamp type USL 45A-Ex

15.2 Description

The lamp type USL 45A-Ex is manufactured to meet the requirements of a) the type of protection 'd' Flameproof Enclosure for category 2G and b) the type of protection 'tD' Protection by Enclosure for category 2D. The lamp is intended for use in hazardous atmospheres where combustible gases and dusts are present. The lamp can be equipped with coloured displays serving as vehicle light or signal light. It is equipped with luminaires of 12V/5W and operated with a supply voltage of 12V or, in conjunction with two series resistors, with a supply voltage of 24 V.

15.3 Parameters

15.3.1 Electrical parameters

Nominal voltage

12 resp. 24 V AC/DC

Max. voltage

13.2 resp. 26.4 V AC/DC

Luminaire

up to 5 W

15.3.2 Temperature class allocation

Ambient temperature range

$-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

(16) Test and assessment report

BVS PP 06.2114 EG as of 03.07.2009


(17) Special conditions for safe use

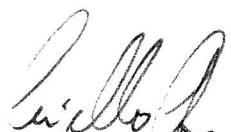
None

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, 16.07.2009
BVS-Kr/Ld/Ar A 20080668

DEKRA EXAM GmbH



Certification body

Special services unit