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Translation

1. Supplement to the EC-Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC Supplement accordant with Annex III number 6

(3) No. of EC-Type Examination Certificate: BVS 08 ATEX E 135

(4) Equipment : Ex-Luminaire type USL06-Ex Ex-Luminaire type USL46-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 supplement.
- (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 09:2036/EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:

EN 60079-0:2012 General requirements

EN 60079-1:2007 / Flameproof enclosure "d"

EN 60079-7:2007 / Increased safety "e"/

EN 60079-31:2009 Protection by enclosure "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 to 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 certificate.
- (12) The marking of the equipment shall include the following:



II 2G Ex de IIC T* Gb II 2D Ex tb IIIC T * °C Db

"e" for enclosures with terminal box

The values for * are specified in the type chart, paragraph 15.3) Parameters

DEKRA EXAM GmbH Bochum, dated 2014-04-24

Signed: Dr. Eickhoff

Signed: Leiendecker

Certification body

Special services unit

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- (13) Appendix to
- (14) 1. Supplement to the EC-Type Examination Certificate BVS 08 ATEX E 135
- (15) 15.1 Subject and type

Ex-Luminaire type USL06-Ex Ex-Luminaire type USL46-Ex

15.2 Description

The enclosure of ex-luminaire type USL 06-Ex and type USL 46-Ex is available in a version with and without terminal box (TB) in the type of in increased safety 'e'.

The ex-luminaire is in the type of protection flameproof enclosure 'd' or in the type of protection flameproof enclosure 'd' with increased safety 'e' or in the type of protection by enclosure 't'. The transparent component has been mounted into the lid. The lamp is equipped with LED or halogen lights for nominal voltages of 12 V up to 240 V. Additionally, some variants of the lamp are equipped with a built-in transformer.

The transformer type El 60 / 20 VA (Trafo-BV: 1.8711.018.97) can now be equipped with the PTC resistor type B59840C0130A070 or B59850C0130A070 instead of the PTC resistor type B59841-C135-A70 or B59851-C135-A70.

This supplement is issued to ensure the compliance of the equipment with the updated versions of the applicable standards and the change of the PTC types in the transformer.

15.3 Parameters

15.3.1 Temperature classification type USI 06-Ex

Type USL 06-Ex	Nominal voltage	//////////////////////////////////////				
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/////-20°C/≤/ta/≤/+40°C/////		/////-20°C ≤ Ta ≤ +60°C		
		Without TB/	//////////////////////////////////////	///Without TB/	With TB	
12V / 20W	12V ACIDC	14/7130°C//	/T4/1/1/30°C//	//T4//T130°C	T4/T130°C	
24V / 20W	24V ACIDC///	/V4/T130°C//	//T4//V130°C//	//T4//T130°C	T4//T/30°C	
120V/12V / 20W	120V AC////	/74/T130°C//	//TA/I/T130°C//	//T4/T130°C/	T4/T130°C	
230V/12V / 20W	230V AC/////	/T4/T130°C//	//T4/1/T130%C//	//T4/T130°C/	//T4//T/130°C	
240V/12V / 20W	240V AC /////	/T4/T130°C//	//T4/1/T130°C//	//T4/T130°C/	T4//T130°C	
12V / 35W	12V AC/DC	/T4/T130°C//	//T4/1/T130%C//	//T3/T195°C/	Y /-/-/ -//////	
12V / 50W	12V AC/DC	/T3 / T195°C//	//3//T195°C//	/X/ -/-/ ///////////////////////////////	V+++//////	
24V / 50W	24V AC/DC	/T3/T195°C//	//T3//T195°C//	///////////////////////////////////////	// /// /////	
230V / 50W	230V AC/DC	T3/T195°C//	//T4//T130°C//	// /// ///////////////////////////////	11-4-1///	

(TB= terminal box)

15.3.2 Temperature classification type USL 46-Ex

Type USL 46-Ex	Nominal voltage	Ambient temperature range			
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-20°C ≤ Ta ≤ +40°C		-20°C ≤ Ta ≤ +60°C	
		Without TB	With TB	Without TB	With TB
12V LED	12V DC	(1 21/ 1/1/1/1/1/	120°C/T120°C	V 44 4/11/11/11	1/4-
24V LED	24V DC	(1-4-4-11111111111111111111111111111111	120°C / T120°C	7 44 /1/1/1/1/	/ /

(TB= terminal box)

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- (16) Test and assessment report

 BVS PP 09.2036 EG as of 2014-04-24
- (17) <u>Special conditions for safe use</u>

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.

DEKRA EXAM GmbH 44809 Bochum, 2014-04-24 BVS-Ew/Ru/Ar A 20130211

Certification body

Special services unit

Translation

EU-Type Examination Certificate Supplement 2

Change to Directive 2014/34/EU

- 2 Equipment intended for use in potentially explosive atmospheres Directive 2014/34/EU
- 3 EU-Type Examination Certificate Number: BVS 08 ATEX E 135
- 4 Product: Ex-Luminaires type USL46-Ex, USL06-Ex and USL06LED-Ex
- 5 Manufacturer: F. H. Papenmeier GmbH & Co. KG
- 6 Address: Talweg 2, 58239 Schwerte, Germany
- This supplementary certificate extends EC-Type Examination Certificate No. BVS 20 ATEX E 016 to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.
- DEKRA Testing and Certification GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive

The examination and test results are recorded in the confidential Report No. BVS PP 09/2036

9 The Essential Health and Safety Requirements are assured in consideration of

EN IEC 60079-0:2018 General requirements
EN 60079-1:2014 Flameproof enclosure "d"
EN IEC 60079-7:2015 + A1:2018 Increased Safety "e"
EN 60079-31:2014 Protection by Enclosure "t"

- 10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.
- This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- 12 The marking of the product shall include the following:



II 2G Ex db eb IIC T* Gb "eb" for enclosures with terminal box II 2D Ex tb IIIC T*°C Db

The values for * are specified in the type chart, paragraph 15.3) Parameters

DEKRA Testing and Certification GmbH Bochum, 2021-04-23

Signed: Jörg-Timm Kilisch

Managing Director



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- 13 Appendix
- 14 EU-Type Examination Certificate

BVS 20 ATEX E 016 Supplement 2

- 15 Product description
- 15.1 Subject and type

Ex-Luminaires type Typ USL46-Ex, USL06-Ex and USL06LED-Ex

Type USL46-Ex:

Vehicle light Halogen lamp Supply voltages: 12 V/DC 24 V/DC

Version without terminal box in increased safety

USL06-Ex:

Mounting on flange plate
Halogen lamp
Supply voltages:
12 V/AC/DC
24 V/AC/DC
120 V/AC
230 V/AC
240 V/AC

Version with and without terminal box in increased safety

USL06LED-Ex

Mounting on flange plate / vehicle light
LED lamp
Supply voltages:
12 V/DC
24 V/DC
24 V/AC/DC
120 - 230 V/AC/DC
Version with terminal box in increased safety

15.2 Description

With this supplement the certificate is changed to Directive 2014/34/EU. (Annotation: In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.)

Reasons for this supplement:

- Change to the new directive RL 2014/34/EU
- Update to the latest standard
- New LED type (USL06-LED)
- Minor design changes



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DEKRA Testing and Certification GmbH, Handwerkstr. 15, 70565 Stuttgart, Germany Certification body: Dinnendahlstr. 9, 44809 Bochum, Germany Phone +49.234.3696-400, Fax +49.234.3696-401, e-mail DTC-Certification-body@dekra.com

Listing of all components used referring to older standards

Subject and type	Certificate	Standards	
Mini terminal type	PTB 99 ATEX 3117 U	EN 60079-0:2012	
07-9702-0*2*/****		IEC 60079-7:2015	

15.3 Parameters

Temperature classification type USL06-Ex

Type USL06-Ex	Nennspannung	Ambient temperature range			
		-20°C ≤ T _a ≤ +40°C		-20°C ≤ T _a ≤ +60°C	
		Without TB	With TB	Without TB	With TB
12 V / 20 W	12 V AC/DC	T4 / T130 °C	T4 / T130 °C	T4 / T130 °C	T4 / T130 °C
24 V / 20 W	24 V AC/DC	T4 / T130 °C	T4 / T130 °C	/T4//T130 °C	T4 / T130 °C
120 V/12 V / 20 W	120 V AC	T4 / T130 °C	T4 / T130 °C	/T4//T130/°C	T4 / T130 °C
230 V/12 V / 20 W	230 V AC	T4 / T130 °C	T41T130°C	/74//T130/°C	T4 / T130 °C
240 V/12 V / 20 W	240 V AC	T4 / T130°C	7417130°€	74/7130°C	T4 / T130 °C
12 V / 35 W	12 V AC/DC	T4/T130°C	T41T130°C	/T3//T195/°C/	/////// //
12 V / 50 W	12 V AC/DC	T3 / T195 °C	T3/T195°C	X//// // ////X	
24 V / 50 W	24 V AC/DC	T3/T195°C	T3/T195°C	X/// // ////	
230 V / 50 W	230 V ACIDO	T3/T195°C	741 T130 °C		

(TB= terminal box)

Temperature classification type USL46-Ex

Type USL46-Ex	Nominal	Ambient temperature range			
	voltage	-20°C ≤ T _a ≤ +40°C		-20°C ≤ T _a ≤ +60°C	
		Without TB	With TB	Without TB	With TB
12 V	12 V DC	1	20°€/T120°€		
24 V	24 V DC		20°C/T120°C	- 11111	

(TB= terminal box)

Temperature classification type USL06LED-Ex

Type USL06LED-	Nominal voltage	Ambient temperature range		
		Without TB	-20°C ≤ T _a ≤ +50°C With TB	
12 V 9 W 12V DC	12 V DC	5.05	T6.7 T80 °C	
24 V / 14W 24V AC/DC	24 V AC/DC		T6 / T80 °C	
24 V / 9 W 24V DC	24V DC		T6 / T80 °C	
230 V / 7 W	120-230 V AC/DC		T6 / T80 °C	

(TB= terminal box)



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16 Report Number

BVS PP 09.2036 EU, as of 2021-04-23

17 Special Conditions for Use

None

18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 Drawings and Documents

Drawings and documents are listed in the confidential report.

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 Testing and Certification GmbH Bochum, 2021-04-23 BVS-Wlo/MGR A20200419

Managing Director

