

Translation

# EU-Type Examination Certificate

Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

EU-Type Examination Certificate Number: **BVS 08 ATEX E 135** Issue: **01**

Equipment: **Ex-Luminaires type USL46-Ex, USL46LED-Ex and USL06LED-Ex**

Manufacturer: **F. H. Papenmeier GmbH & Co. KG**

Address: **Talweg 2, 58239 Schwerte, Germany**

This product and any acceptable variations thereto are 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 EU. This issue of the EU-Type Examination Certificate replaces the previous issue of the EU-Type Examination Certificate BVS 08 ATEX E 135.

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

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

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance with the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **II 2G Ex db eb IIC T\* Gb**  
**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, 2024-02-01

Signed: Oliver Brumm

Managing Director

13 **Appendix**

14 **EU-Type Examination Certificate**

**BVS 08 ATEX E 135 issue 01**

15 **Product description**

15.1 **Subject and type**

Ex-Luminaires type USL46-Ex, type USL46LED-Ex and type USL06LED-Ex

Type USL46-Ex:

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

Type USL46LED-Ex:

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

Type USL06LED-Ex:

Mounting on flange plate / vehicle light  
LED-lamp  
Supply voltages:  
12 V/DC  
24 V/AC/DC  
230 V/AC/DC

15.2 **Description**

The Ex-luminaires are either designed in type of protection Protection by Enclosure “t” or in type of protection Flameproof Enclosure “d” with an added connection box in type of protection Increased Safety “e”. In the connection box are separately certified terminals for electrical connection (see EPS 21 ATEX 1101 U). The translucent part is inserted into the cover of the enclosure. The luminaires are fitted with LED or halogen bulbs, depending on type, and have a rated voltage from 12V to 230V. Some of the versions are also equipped with a transformer.

**Reasons for this issue:**

- New RGB LED-variant Type USL46LED-Ex
- Changing of the certificate number of the used terminals
- Removal of the type USL06-Ex

15.3 **Parameters**

**Type USL46-Ex**

Variant	Nominal voltage	Ambient temperature range
		-20 °C ≤ T <sub>a</sub> ≤ +40 °C
12 V	12 V DC	120°C (Gas) / T120 °C (Dust)
24 V	24 V DC	120°C (Gas) / T120 °C (Dust)

Type **USL46LED-Ex**

Variant	Nominal voltage	Ambient temperature range -20 °C ≤ T <sub>a</sub> ≤ +50 °C
12 V	12 V DC	T6 / T80 °C
24 V	24 V DC	T6 / T80 °C

Type **USL06LED-Ex**

Variant	Nominal voltage	Ambient temperature range -20°C ≤ T <sub>a</sub> ≤ +50 °C
12 V / 9 W 12 V DC	12 V DC	T6 / T80 °C
24 V / 14 W 24 V AC/DC	24 V AC/DC	T6 / T80 °C
24 V / 9 W 24 V DC	24 V DC	T6 / T80 °C
230 V / 7 W	120-230 V AC	T6 / T80 °C

16 **Report Number**

BVS PP 09.2036 EU, as of 2024-02-01

17 **Specific Conditions of Use**

None

18 **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

19 **Remarks and additional information**

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, 2024-02-01  
BVS-(DDO)Kir/Mu A 20221160 / 342946200

  
\_\_\_\_\_  
Managing Director