

Translation

EU-Type Examination Certificate

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 16 ATEX E 106 X**

Product: **Ex-light type USL 07 LED-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 EXAM 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 16.2170 EU.


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

EN 60079-0:2012 + A11:2013	General requirements
EN 60079-1:2014	Flameproof enclosure “d”
EN 60079-7:2015	Increased Safety “e”
EN 60079-31:2014	Protection by Enclosure “t”

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.

The marking of the product shall include the following:

 **II 2G Ex db eb IIC T6 Gb**
II 2D Ex tb IIIC T80°C Db

DEKRA EXAM GmbH
Bochum, 2016-10-11

Signed: Jörg Koch

Certifier

Signed: Dr. Michael Wittler

Approver

13 **Appendix**
 14 **EU-Type Examination Certificate**
BVS 16 ATEX E 106 X

15 **Product description**

15.1 **Subject and type**

Ex-light type USL 07 LED-Ex

15.2 **Description**

The Ex-luminaire type USL07LED-Ex consists of a luminaire compartment with screwed lid and a terminal compartment. It is suitable for use in areas with potentially explosive gas or combustible dust atmospheres. The luminaire compartment is designed in type of protection Flameproof Enclosure "d" and Protection by Enclosure "t". The terminal compartment is designed in type of protection Increased Safety "e" Protection by Enclosure "t".

The light transmitting window is cemented into the screwed lid.

Optionally the luminaire has got an electronic timer. The timer turns the luminaire via a reed contact automatically off after reaching a pre-defined time.

15.3 **Parameters**

Electrical parameters

Rated voltage	AC	120 - 230	V
Rated voltage	AC/DC	24	V
Rated power		14	W

Thermal parameters

Ambient temperature range $-20\text{ °C} \leq T_{amb} \leq 60\text{ °C}$

Miscellaneous parameters

Ingress protection IP 65/67

16 **Report Number**

BVS PP 16.2170 EU, as of 2016-10-11

17 **Special Conditions for Use**

The separately certified cable gland must include an o-ring at the entry thread, because the number of complete threads at the terminal compartment is below five threads.

18 **Essential Health and Safety Requirements**

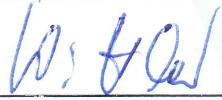
The Essential Health and Safety Requirements are covered by the standards listed under item 9.

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 EXAM GmbH
 Bochum, dated 2016-11-18
 BVS-Wlo/Kir/Nu A 20150679



Certifier



Approver

Translation

EU-Type Examination Certificate Supplement 1

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 16 ATEX E 106 X**

Product: **Ex-light type USL 07 LED-Ex**

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

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

This supplementary certificate extends EU-Type Examination Certificate No. BVS 16 ATEX E 106 X 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 16.2170 EU.


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”

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.

The marking of the product shall include the following:

 **II 2G Ex db eb IIC T6 Gb**
II 2D Ex tb IIIC T80°C Db

DEKRA Testing and Certification GmbH
Bochum, 2020-09-11

Signed: Jörg-Timm Kilisch

Managing Director



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This certificate may only be reproduced in its entirety and without any change.

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13 **Appendix**
 14 **EU-Type Examination Certificate**

**BVS 16 ATEX E 106 X
 Supplement 1**

15 **Product description**

15.1 **Subject and type**

Ex-light type USL 07 LED-Ex

15.2 **Description**

The Ex-luminaire type USL07LED-Ex consists of a luminaire compartment with screwed lid and a terminal compartment. It is suitable for use in areas with potentially explosive gas or combustible dust atmospheres. The luminaire compartment is designed in type of protection Flameproof Enclosure "d" and Protection by Enclosure "t". The terminal compartment is designed in type of protection Increased Safety "e" and Protection by Enclosure "t".

The light transmitting window is cemented into the screwed lid.

Optionally the luminaire has got an electronic timer. The timer turns the luminaire via a reed contact automatically off after reaching a pre-defined time.

Reasons for the supplement:

- Use of the current standard
- Modification of the nameplate
- Use of blanking plugs
- Minor constructional changes

Listing of all components used referring to older standards

Subject and type	Certificate	Standards
Mini terminal (connection terminal) Type 07-9702-0.2./....	PTB 99 ATEX 3117 U	EN 60079-0:2012 EN 60079-7:2015

15.3 **Parameters**

Electrical parameters (7-way LED)

Rated voltage	AC	120 - 230 V
Rated voltage	AC/DC	24 V
Rated power		14 W

Thermal parameters

Ambient temperature range $-20\text{ °C} \leq T_{\text{amb}} \leq 60\text{ °C}$

Miscellaneous parameters

Ingress protection IP 65/67

16 **Report Number**

BVS PP 16.2170 EU, as of 2020-09-11

17 **Special Conditions for Use**

The separately certified cable gland must include an O-ring at the entry thread, because the number of complete threads at the terminal compartment is below five threads.

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, 2020-09-11
BVS-Wlo/Mu A 20200135



Managing Director

Translation

EU-Type Examination Certificate Supplement 2

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 16 ATEX E 106 X**

Product: **Ex-light type USL 07 LED-Ex**

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

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

This supplementary certificate extends EU-Type Examination Certificate No. BVS 16 ATEX E 106 X 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 16.2170 EU.


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"

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.

The marking of the product shall include the following:

 **II 2G Ex db eb IIC T6 Gb**
II 2D Ex tb IIIC T80°C Db

DEKRA Testing and Certification GmbH
Bochum, 2021-06-08

Signed: Jörg-Timm Kilisch

Managing Director

13 **Appendix**
 14 **EU-Type Examination Certificate**

**BVS 16 ATEX E 106 X
 Supplement 2**

15 **Product description**

15.1 **Subject and type**

Ex-light type USL 07 LED-Ex

15.2 **Description**

The Ex-luminaire type USL07LED-Ex consists of a luminaire compartment with screwed lid and a terminal compartment. It is suitable for use in areas with potentially explosive gas or combustible dust atmospheres. The luminaire compartment is designed in type of protection Flameproof Enclosure "d" and Protection by Enclosure "t". The terminal compartment is designed in type of protection Increased Safety "e" and Protection by Enclosure "t".

The light transmitting window is cemented into the screwed lid.

Optionally the luminaire has got an electronic timer. The timer turns the luminaire via a reed contact automatically off after reaching a pre-defined time.

Reasons for the supplement:

- Modification of parameters

Listing of all components used referring to older standards

Subject and type	Certificate	Standards
Mini terminal (connection terminal) Type 07-9702-0.2./.....	PTB 99 ATEX 3117 U	EN 60079-0:2004 EN 60079-7:2007
Cable gland Type 07-91**_****/****	PTB 97 ATEX 1047 U	EN 60079-0:2012 EN 60079-1:2007

15.3 **Parameters**

Electrical parameters (7-way LED)

Rated voltage	AC/DC	120 - 230	V
Rated voltage	AC/DC	24	V
Rated power		14	W

Thermal parameters

Ambient temperature range $-20\text{ °C} \leq T_{amb} \leq 60\text{ °C}$

Miscellaneous parameters

Ingress protection IP 65/67

16 **Report Number**

BVS PP 16.2170 EU, as of 2021-06-08

17 **Special Conditions for Use**

The separately certified cable gland must include an O-ring at the entry thread, because the number of complete threads at the terminal compartment is below five threads.

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, 2021-06-08
BVS-WIo/Mu A 20210495



Managing Director