

Translation

EU-Type Examination Certificate Supplement 1

Change to Directive 2014/34/EU

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

EU-Type Examination Certificate Number: **BVS 14 ATEX E 172 X**

Product: **Luminaire type ESL55LED-ALF-Ex**

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

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

This supplementary certificate extends EC-Type Examination Certificate No. **BVS 14 ATEX E 172 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 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 14 2242 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 60079-31:2014 **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 IIC T6 Gb**
II 2D Ex tb IIIC T80°C Db

DEKRA EXAM GmbH
Bochum, 2018-02-13

Signed: Dr Franz Eickhoff

Certifier

Signed: Dr Michael Wittler

Approver



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

**BVS 14 ATEX E 172 X
Supplement 1**

15 **Product description**

15.1 **Subject and type**

Luminaire type ESL55LED-ALF-Ex

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 the supplement:

- Change to Directive 2014/34/EU
- Rise to the current standard

Description of Product:

The luminaire type ESL55LED-ALF-Ex is made of a stainless steel housing and is suitable for use in areas hazardous to gases and dust in category 2G or 2D. The luminaire is used for object monitoring and remote control of processes in reactors, apparatus, vessels, etc. The lighting of zone 0 and zone 20 is also permitted through a viewing glass via the metal-coated fibre optic. The minimum length of the fibre optic cable is 40 cm.

Category 2G:

The luminaire type ESL55LED-ALF-Ex is designed in the type of protection flameproof enclosure "d".

Category 2D:

The luminaire type ESL55LED-ALF-Ex is designed in type of protection protection by enclosure "t".

15.3 **Parameters**

Electrical parameters

3-ways LED

Voltage	Power
24 V AC/DC	7 W
120 - 230 V AC/DC	7 W

Thermal Parameters

Ambient temperature range $-20\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq +50\text{ }^{\circ}\text{C}$

16 **Report Number**

BVS PP 14.2242 EU, as of 2018-02-13

17 **Special Conditions for Use**

For use in potentially explosive dust atmospheres:
The connection cable must be laid in such a way that it is protected against electrostatic charges.

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 2018-02-13
BVS-Wlo/Nu A 20170413



Certifier



Approver