

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 15 ATEX E 057 X**

Product: **Ex-detector device type M55-\*\*-Ex**

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

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

This supplementary certificate extends EC-Type Examination Certificate No. BVS 15 ATEX E 057 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 15.2084 EU

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

<b>EN 60079-0:2012 + A11:2013</b>	<b>General requirements</b>
<b>EN 60079-1:2014</b>	<b>Flameproof enclosure "d"</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 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 15 ATEX E 057 X**  
**Supplement 1**

15 **Product description**

15.1 **Subject and type**

Ex-detector device type M55-\*\*-Ex

<u>Asterisk</u>	<u>Description</u>
1	<u>Detector type 1</u> w/o Motion detector deactivated B Motion detector
2	<u>Detector type 2</u> w/o Twilight switch deactivated D Twilight switch

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
- Update to the current standard

Description of Product

The Ex-detector device type M55-\*\*-Ex consists of an enclosure, a terminal compartment lid and a flanged ring with cemented window at the detector compartment. All metallic parts are made of stainless steel. The complete device is designed in type of protection Flameproof Enclosure "d" for usage in areas potentially hazardous by gas atmosphere and in type of protection Protection by Enclosure "t" for usage in areas endangered by dust atmospheres. The lid of the terminal compartment and the flanged ring with cemented window are used with O-rings to prevent ingress of water and dust. The enclosure is divided into two sub-compartments with a separation plate which has got several holes to link both compartments. The motion detector based on radar technology.

15.3 **Parameters**

Electrical parameters

Rated voltage	AC / DC	230 V
	AC / DC	24 V
Rated power		5 W

Thermal parameters

Ambient temperature range	$-20\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq +40\text{ }^{\circ}\text{C}$
Temperature class	T6
Maximum surface temperature	T80 °C

Other parameters

Ingress protection	IP65 / IP67
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16 **Report Number**

BVS PP 15.2084 EU, as of 2018-02-13

17 **Special Conditions for Use**

If the Ex-detector device type M55-\*\*-Ex has got a fixed cable tail, this cable must be protected for operation so that no electrostatic hazard can occur.

The length of the supply line must be 1 m minimum.

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.

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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 20170415

  
\_\_\_\_\_  
Certifier

  
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Approver