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## **EU-Type Examination Certificate** Supplement 4

- Equipment intended for use in potentially explosive atmospheres Directive 2014/34/EU
- 3 EU-Type Examination Certificate Number: **BVS 04 ATEX E 205 X**
- 4 Product: Vibrations-Grenzschalter VEGASWING
- 5 Manufacturer: VEGA Grieshaber KG
- 6 Address: Am Hohenstein 113, 77761 Schiltach, Germany
- 7 This supplementary certificate extends EU-Type Examination Certificate No. BVS 04 ATEX E 205 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.
- 8 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 04.2147 EU
- 9 The Essential Health and Safety Requirements are assured in consideration of:

EN IEC 60079-0:2018 IEC 60079-26:2021 EN 60079-31:2014

General requirements Separation Elements or combined Levels of Protection

Protection by Enclosure "t"

Except in respect of those requirements listed under item 18 of the appendix.

- 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.
- 11 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 Themarking of the product shall include the following:



II 1/2D Ex ta/tb IIIC Tsee manual Da/Db II 2D Ex tb IIIC T seemanual Db IP66

or

DEKRA Testing and Certification GmbH Bochum, 2021-07-05

Signed: Jörg-Timm Kilisch

Managing Director



Page 1 of 4 of BVS 04 ATEX E 205 / N4 - Johnumber 342294600 This certificate may only be reproduced in its entirety and without any change Appendix

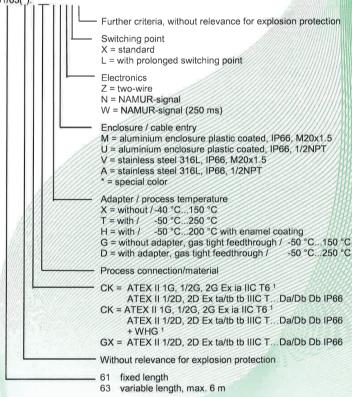
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14 **EU-Type Examination Certificate** 

> **BVS 04 ATEX E 205 X** Supplement 4

- 15 **Product description**
- 15.1 Subject and type

Vibrating level switch VEGASWING with type code SWING 61/63(\*).



<sup>1</sup> The assessment for use in explosive gas atmospheres and WHG is not part of this Test Report.



Page 2 of 4 of BVS 04 ATEX E 205 / N4 - Johnumber 342294600 This certificate may only be reproduced in its entirety and without any change.

#### 15.2 Description

The Vibrating Level Switch VEGASWING is used for level monitoring, controlling and regulating in silos with dust generating material.

The probe of the Vibrating Level Switch vibrates at its mechanical resonant frequency. In case the probe is covered with material, the vibration is damped and a switch signal is generated.

## Reason for the supplement:

- Update to current harmonised standards incl. assessment according to IEC 60079-26 Ed 4
- Distinction between product name and type code
- Minor adaptation of drawings and documents

#### 15.3 **Parameters**

- 15.3.1 Electrical data
- 15.3.1.1 Type SWING 61/63(\*).GX/CK \*\*\* \* Z \* \* with electronics insert SW E60ZEX built in Supply and signal circuit

in type of protection Intrinsic Safety Ex ia IIC only for connection to a certified intrinsically safe circuit with the following maximum values: Ui = 29 V UI/F mA

 $l_i = 116 \text{ mA}$ 1 = 131  $P_{i} = 841 \text{ mW}$  $P_{i} = 786 \text{ mW}$ effective internal capacitance negligible

effective internal inductivity

15.3.1.2 Type SWING 61/63(\*).GX/CK \*\*\* \* \* N/W \* \* with electronics insert SW E60NEX built in Supply and signal circuit

in type of protection Intrinsic Safety Ex ia IIC only for connection to a certified intrinsically safe circuit with the following maximum values:

negligible

 $U_i = 20 \text{ V}$ L = 103 mA  $P_{i} = 516 \text{ mW}$ 

effective internal capacitance negligible effective internal inductivity negligible

- 15.3.2 Thermal data
- 15.3.2.1 Permitted process temperature at the probe, category 1D or 2D

Type	SWING 61/63(*).GX *** X * * * *
Type	SWING 61/63(*).GX *** T * * * *
Type	SWING 61/63(*).GX *** H * * * *
	SWING 61/63(*).GX *** G * * * *
Type	SWING 61/63(*).GX *** D * * * *
,	

-40 °C...+ 150 °C -50 °C ... + 250 °C -50 °C ... + 200 °C -50 °C ... + 150 °C

-50 °C ... + 250 °C

15.3.2.2 Max. surface temperature T at the probe

Process temperature + 6 K

15.3.2.3 Permitted ambient temperature at the electronics enclosure

-40 °C ... + 60 °C

15.3.2.4 Maximum surface temperature at the electronics enclosure

Ambient temperature+ 13 K

15.3.3 Degrees of protection according to EN 60529

### 16 Report Number

BVS PP 04.2147 EU, as of 2021-07-05



Page 3 of 4 of BVS 04 ATEX E 205 / N4 - Johnumber 342294600 This certificate may only be reproduced in its entirety and without any change.

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

Intensive electrostatic charging for instance by the process has to be avoided. In case of extremely ignitable dusts (MIE < 3 mJ) the equipment must not be used in areas where intensive charging processes are to be expected.

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, 2021-07-05 BVS-Hor/MGR A20210393

> > ging Director



Page 4 of 4 of BVS 04 ATEX E 205 / N4 - Johnumber 342294600 This certificate may only be reproduced in its entirety and without any change, D DEKR.

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**Translation** 

## **EU-Type Examination Certificate Supplement 3**

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 04 ATEX E 205 X
- 4 Product: Vibrating level switch type VEGASWING 61/63(\*).\* \*\*\* \* \* \* \*
- 5 Manufacturer: VEGA Grieshaber KG
- 6 Address: Am Hohenstein 113, 77761 Schiltach, Germany
- This supplementary certificate extends EC-Type Examination Certificate No BVS 04 ATEX E 205 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 04.2147 EU

The Essential Health and Safety Requirements are assured in consideration of

EN 60079-0:2012 + A11:2013 | General requirements | 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:

(Ex) II 1/2 D Ex ta/tb IIIC T see manual Da/Db resp.
II 2 D Ex tb IIIC T see manual Db

DEKRA Testing and Certification GmbH Bochum, 2019-03-21

Signed: Jörg-Timm Kilisch

Managing Director



Akkrediterungsstelle D-25 17438-02-00 Page 1 of 4 of BVS 04 ATEX E 205 X / N3
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- 13 Appendix
- 14 EU-Type Examination Certificate

BVS 04 ATEX E 205 X Supplement 3

- 15 Product description
- 15.1 Subject and type

Vibrating level switch type VEGASWING 61/63(\*) Further criteria, without relevance for explosion protection Switching point X = standard L = with prolonged switching point Electronics Z = two-wire N = NAMUR-signal W = NAMUR-signal (250 ms) Enclosure / cable entry M = aluminium enclosure plastic coated, IP66, M20x1.5 U = aluminium enclosure plastic coated, IP66, 1/2NPT V = stainless steel 316L, IP66, M20x1.5 A = stainless steel 316L IP66 1/2NPT \* = special color Adapter / process temperature X = without /-40 °C / 150 °C /-50°C...250°C  $T \neq \text{with } V$ H = with / -50 °C...200 °C with enamel coating G = without adapter, gas tight feedthrough// -50 °C...150 °C D = with adapter, gas tight feedthrough // -50/°C ... 250 °C Process connection/material CK = ATEX/II 1G, 1/2G, 2G Ex/ia/IIC/T6 ATEX II 1/2D, 2D Ex ta/tb tb IIIC T. Da/Db Db IP66 GX = ATEX II 1/2D/2D/Ex ta/tb tb IIIC T... Da/Db Db IP66 Without relevance for explosion protection 61 fixed length 63 variable length, max. 6 m

The assessment for use in explosive gas atmospheres is <u>not</u> part of this Certificate.



Page 2 of 4 of BVS 04 ATEX E 205 X / N3 This certificate may only be reproduced in its entirety and without any change.

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### 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.)

Reason for the supplement:

Change to Directive 2014/34/EU Change of Marking

Description of Product:

The Vibrating Level Switch type VEGASWING 6\* GX/CK\*\*\*\*\* is used for level monitoring, controlling and regulating in silos with dust generating material. The probe of the Vibrating level switch vibrates at its mechanical resonant frequency. In case the probe is covered with material, the vibration is damped and a switch signal is generated.

#### 15.3 **Parameters**

15.3.1 Electrical data

15.3.1.1 Type VEGASWING 61/63(\*).GX/CK \*\*\* \* \* Z \*\* with electronics insert SW E60ZEX built in

Supply and signal circuit

in type of protection Intrinsic Safety Ex ia IIC only for connection to a certified intrinsically safe circuit with the following maximum values: U/9 29/V 24 V 116 mA 131 mA P(=/841/mW 786 mW effective internal capacitance negligible effective internal inductivity

15.3.1.2 Type VEGASWING 61/63(\*).GX/CK \*\*\* \* N/W \* with electronics insert SW E60NEX built in Supply and signal circuit

in type of protection Intrinsic Safety Ex ia IIC only for connection to a certified intrinsically safe circuit with the following maximum values: 20/  $I_i = 103 \text{ mA}$   $P_i = 516 \text{ mW}$ 

effective internal capacitance

effective internal inductivity

negligible negligible

Process temperature + 6 K

negligible

15.3.2 Thermal data

15.3.2.1 Permitted process temperature at the probe, category 1D or 2D

Type VEGASWING 61/63(*).GX *** X * * * *	-40 °C+150 °C
Type VEGASWING 61/63(*).GX *** T * * * *	-50 °C+250 °C
Type VEGASWING 61/63(*).GX *** H * * * *	-50 °C+200 °C
Type VEGASWING 61/63(*).GX *** G * * * *	-50 °C+150 °C
Type VEGASWING 61/63(*).GX *** D * * * *	-50 °C+250 °C

15.3.2.2 Max. surface temperature T at the probe

15.3.2.3 Permitted ambient temperature at the electronics enclosure -40 °C ... + 60 °C

15.3.2.4 Maximum surface temperature at the electronics enclosure Ambient temperature+ 13 K

15.3.3 Degrees of protection according to EN 60529 **IP66** 



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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 D DENG

KRA DE

16 Report Number

BVS PP 04.2147 EU, as of 2019-03-21

17 Special Conditions for Use

Intensive electrostatic charging for instance by the process has to be avoided. In case of extremely ignitable dusts (MIE < 3 mJ) the equipment must not be used in areas where intensive charging processes are to be expected.

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, 2019-03-21 BVS-Hor/Mu A 20180530

Managing Director



Page 4 of 4 of BVS 04 ATEX E 205 X / N3
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Translation

# 2<sup>nd</sup> 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 04 ATEX E 205
- (4) Equipment: Vibrating level switch type VEGASWING 61/63(\*).\* \*\*\* \* \* \* \*
- (5) Manufacturer: VEGA Grieshaber KG
- (6) Address: Am Hohenstein 113, 77761 Schiltach, 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 04.2147 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:

- (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 1/2 D Ex ta/tb IIIC T see manual Da/Db resp..

DEKRA EXAM GmbH Bochum, dated 2016-01-21

Signed: Dr. Eickhoff

Signed: Dr. Wittler

Certification body

Special services unit



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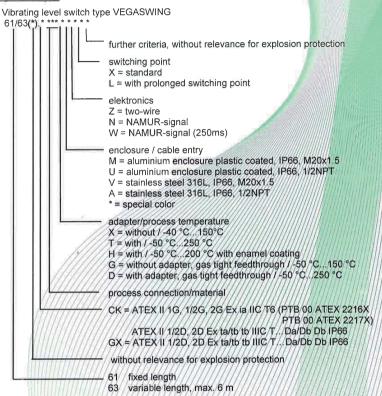
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- (13) Appendix to
- (14) 2<sup>nd</sup> Supplement to the EC-Type Examination Certificate BVS 04 ATEX E 205
- (15) 15.1 Subject and type



## 15.2 Description

The Vibrating Level Switch type VEGASWING 6\* GX/CK\*\*\*\*\* is used for level monitoring, controlling and regulating in silos with dust generating material.

The probe of the Vibrating Level Switch vibrates at its mechanical resonant frequency. In case the probe is covered with material, the vibration is damped and a switch signal is generated.

The reason for this supplement is a modified type code and the updating to the current standards.



Page 2 of 4 of BVS 04 ATEX E 205 / N2
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## 15.3 Parameters

- 15.3.1 Electrical data
- 15.3.1.1 Type VEGASWING 61/63(\*).GX/CK \*\*\* \* \* Z \* \*

with electronics insert SW E60ZEX built in in type of protection Intrinsic Safety Ex ia IIC Supply and signal circuit only for connection to a certified intrinsically safe circuit with the following maximum values: Ui = 24 V

Ui = 29 V

li = 131 mAli = 116 mAPi = 786 mWPi = 841 mW

effective internal capacitance negligible effective internal inductivity negligible

15.3.1.2 Type VEGASWING 61/63(\*).GX/CK \*\*\* \* \* N/W \* \*

with electronics insert SW E60NEX built in Supply and signal circuit

in type of protection Intrinsic Safety Ex ia IIC only for connection to a certified intrinsically safe circuit with the following maximum values:

Ui = 20 V li = 103 mAPi = 516 mW

effective internal capacitance negligible effective internal inductivity negligible

- 15.3.2 Thermal data
- 15.3.2.1 Permitted process temperature at the probe, category 1D or 2D

Type VEGASWING 61/63(*).GX *** X * */*	///////40/°C./.+/150 °C
Type VEGASWING 61/63(*).GX *** T * * * *	///////50°C//+/250 °C
Type VEGASWING 61/63(*).GX *** H */* */*	//////-50/°C./.\+/200 °C
Type VEGASWING 61/63(*), GX *** G * * */*/	/////-50°C\+/150 °C
Type VEGASWING 61/63(*).GX **** D */*/*/	//////-50°°C./.\+/250 °C

15.3.2.2 Max. surface temperature T at the probe

process temperature + 2 K

- 15.3.2.3 Permitted ambient temperature at the electronics enclosure 40/°C/..+60/°C
- 15.3.2.4 Maximum surface temperature at the electronics enclosure ambient temperature+ 13 K
- **IP66** Degrees of protection according to EN 60529 15.3.3
- (16) Test and Assessment Report

BVS PP 04 2147 EG as of 2016-01-21

(17) Special conditions for safe use

None



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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 44809 Bochum, 2016-01-21 BVS-Hk/Nu A 20150609

Certification body

Special services unit

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DEKRA EXAM GmbH, Dinnendahlstrasse 9, 44809 Bochum, Germany, telephone +49.234.3696-105, Fax +49.234.3696-110, zs-exam@dekra.com

50811-EN-160121 50811-EN-190321





## Translation

## (I) EC-Type Examination Certificate

(2) - Directive 94/9/EC -

Equipment and protective systems intended for use in potentially explosive atmospheres

(3) BVS 04 ATEX E 205

(4) Equipment: Vibrating level switch type VEGASWING SWING6\*.GX/CK\*\*\*Z/N\*

(5) Manufacturer: VEGA Grieshaber KG

(6) Address: D 77757 Schiltach

- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the schedule to this type examination certificate.
- (8) The certification body of EXAM BBG Prüf- und Zertifizier 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 04.2147 EG.

(9) The Essential Health and Safety Requirements are assured by compliance with:

EN 50281-1-1:1998+A1

not covered by this certificate

Dust explosion protection

- (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 schedule to this certificate.
- (11) This 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
- (12) The marking of the equipment shall include the following:

(Ex) II 1/2 D IP 66 T see 15.3.2 or see 15.3.2

## EXAM BBG Prüf- und Zertifizier GmbH

Bochum, dated 07. September 2004

Signed: Dr. Jockers Signed: Dr. Eickhoff

Certification body Special services unit

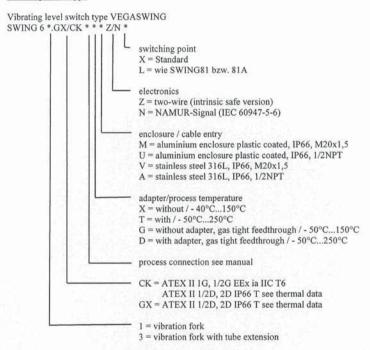


(13) Appendix to

## (14) EC-Type Examination Certificate

## **BVS 04 ATEX E 205**

## (15) 15.1 Subject and type



## 15.2 Description

The Vibrating Level Switch type VEGASWING SWING6\*.GX/CK\*\*\*Z/N\* is used for level monitoring, controlling and regulating in silos with dust generating material

The probe of the Vibrating Level Switch vibrates at its mechanical resonant frequency. In case the probe is covered with material, the vibration is damped and a switch signal is generated.

Page 2 of 4 to BVS 04 ATEX E 205

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

Dinnendahlstrasse 9 44809 Bochum Germany Phone +49 201 172-3947 Fax +49 201 172-3948

(until 31.05.2003: Deutsche Montan Technologie GmbH Am Technologiepark 1 45307 Essen)



## 15.3 Parameters

15.3.1 Electrical data

15.3.1.1 Type VEGASWING SWING6\*.GX/CK\*\*\*Z\* with electronics insert SW E60ZEX built in Supply and signal circuit

in type of protection Intrinsic Safety EEx ia IIC only for connection to a certified intrinsically safe circuit with the following maximum values

Ui = 29 V Ui = 24 V Ii = 116 mA oder-or Ii = 131 mA Pi = 841 mW Pi = 786 mW

effective internal capacitance negligible effective internal inductivity negligible

15.3.1.2 Type VEGASWING SWING6\*.GX/CK\*\*\*N\* with electronics insert SW E60NEX built in Supply and signal circuit

in type of protection Intrinsic Safety EEx ia IIC only for connection to a certified intrinsically safe circuit with the following maximum values

Ui = 20 V Ii = 103 mA Pi = 516 mW

effective internal capacitance negligible effective internal inductivity negligible

- 15.3.2 Thermal data
- 15.3.2.1 Permitted process temperature at the probe, category 1D or 2D

Types VEGASWING SWING6*.GX/CK*X*Z/N*	- 40 °C+150 °C
Types VEGASWING SWING6*.GX/CK*G*Z/N*	- 50 °C+250 °C
Types VEGASWING SWING6*.GX/CK*T/D*Z/N*	- 50 °C+250 °C

- 15.3.2.2 Max. surface temperature T at the probe process temperature + 2 K
- 15.3.2.3 Permitted ambient temperature at the electronics enclosure 40 °C...+ 60 °C
- 15.3.2.4 Maximum surface temperature at the electronics enclosure ambient temperature+ 13 K
- 15.3.3 Degrees of protection according to EN 60529 IP66



- (16) <u>Test and assessment report</u> BVS PP 04.2147 EG as of 07.09.2004
- (17) Special conditions for safe use 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.

44809 Bochum, 07.09.2004 BVS-Hk/Mi A 20040538

EXAM BBG Prüf- und Zertifizier GmbH

ication body Special services to





## **Translation**

## 1st Supplement

(Supplement in accordance with Directive 94/9/EC Annex III number 6)

## to the EC-Type Examination Certificate BVS 04 ATEX E 205

Equipment:

Vibrations-Grenz-Schalter type VEGASWING

SWING 61.GX/CK\*\*\*\*\*Z/N\* and SWING 63.GX/CK\*\*\*\*Z/N

Manufacturer:

**VEGA Grieshaber KG** 

Address:

77757 Schiltach

Description

The vibrating level switch meets the requirements of the standards EN 61241-0:2006 and EN 61241-1:2004. The model code was changed according to the descriptive documents as mentioned in the pertinent test and assessment report. The cover of the enclosure can optionally be modified according to the descriptive documents as mentioned in the pertinent test and assessment report.

## Subject and type

Vibrating level switch type VEGASWING **SWING 61.\*** switching point X = Standard L = as SWING81 bzw. 81A electronics Z = two-wire (intrinsic safe version) N = NAMUR-Signal (IEC 60947-5-6) enclosure / cable entry M = aluminium enclosure plastic coated, IP66, M20x1.5 U = aluminium enclosure plastic coated, IP66, 1/2NPT V = stainless steel 316L, IP66, M20x1.5 A = stainless steel 316L, IP66, 1/2NPT adapter/process temperature X = without / - 40 °C...150 °CT = with / - 50 °C...250 °C G = without adapter, gas tight feedthrough / - 50 °C...150 °C D = with adapter, gas tight feedthrough / - 50 °C...250 °C

process connection/material

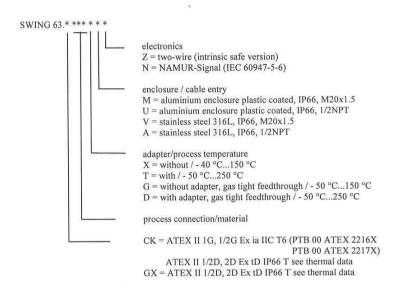
CK = ATEX II 1G, 1/2G Ex ia IIC T6 (PTB 00 ATEX 2216X PTB 00 ATEX 2217X)

ATEX II 1/2D, 2D Ex tD IP66 T see thermal data GX = ATEX II 1/2D, 2D Ex tD IP66 T see thermal data

Page 1 of 3 to BVS 04 ATEX E 205 / N1
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DEKRA EXAM GmbH Dinnendahlstrasse 9 44809 Bochum Germany Phone +49 234/3696-105 Fax +49 234/3696-110 E-mail zs-exam@dekra.com
(until 31.03.2007 EXAM BBG Prüf- und Zertifizier GmbH)





The Essential Health and Safety Requirements of the modified equipment are assured by compliance with:

EN 61241-0:2006 General requirements EN 61241-1:2004 Protection by enclosures

The marking of the equipment shall include the following:

(Ex) II 1/2 D Ex tD A20/21 IP66 T see manual or II 2 D Ex tD A21 IP66 T see manual

Special conditions for safe use



Test and assessment report BVS PP 04.2147 EG as of 05.02.2008

## **DEKRA EXAM GmbH**

Bochum, dated 05. February 2008

Signed: Dr. Jockers	Signed: Dr. Eickhoff	
Certification body	Special services unit	
We confirm the correctness of th In the case of arbitration only the G	e translation from the German original. erman wording shall be valid and binding.	
44809 Bochum, 05.02.2008		
BVS-Hk/Mi Á 20070778		
DEKRA EXAM GmbH	1. 11 m	
(Certification body	Special services unit	