

Translation, original language: German

(1) **EC-TYPE EXAMINATION CERTIFICATE**

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **KEMA 01ATEX2026 X** Issue Number: **3**

(4) Equipment: **Vibrating Level Switch VEGASWING Type 61.D... and Type 63.D...**

(5) Manufacturer: **Vega Grieshaber KG**

(6) Address: **Am Hohenstein 113, D-77761 Schiltach, Germany**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC 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 confidential test report number 211439200.

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

IEC 60079-0 : 2007

EN 60079-1 : 2007

EN 60079-26 : 2007

(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 according to the 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 G Ex d IIC T2 ... T6

This certificate is issued on January 9, 2009 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.



C.G. van Es
Certification Manager



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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 01ATEX2026 X**

Issue No. 3

(15) **Description**

The Vibrating Level Switch VEGASWING Type 61.D... and Type 63.D... is used for detection of a fluid level.

The relation between the temperature class and the liquid temperature at the sensor is given in the table below:

Temperature class	Liquid temperature (sensor)
T6	-40 °C ... 83 °C
T5	-40 °C ... 98 °C
T4	-40 °C ... 133 °C
T3	-40 °C ... 198 °C
T2	-40 °C ... 250 °C

Ambient temperature range for the electronics housing: -40 °C to +70 °C.

Electrical data

Electronics module type SWING E60 Z EX (SWING 6*.D*****Z*)

Supply circuit 12 ... 36 Vdc, max. 0,6 W
Output 1,8 ... 16 mA

Electronics module type SWING E60 C (SWING 6*.D*****C*)

Supply circuit 20 ... 250 Vdc or
20 ... 253 Vac, 50/60 Hz, max. 1 W
Output max. 400 mA

Electronics module type SWING E60 R (SWING 6*.D*****R*)

Supply 20 ... 72 Vdc or
20 ... 253 Vac, 50/60 Hz, max. 1,3 W
Output 2 change-over contacts, floating
max. 5 A

Electronics module type SWING E60 T (SWING 6*.D*****T*)

Supply 10 ... 55 Vdc, max. 1 W
Output Transistor, max. 400 mA

Electronics module type SWING E60 N EX (SWING 6*.D*****N*)

Supply NAMUR, max. 30 mW

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 01ATEX2026 X** Issue No. 3

Installation instructions

The Vibrating Level Switch shall be connected using suitable cable entry devices in type of protection flameproof enclosure "d". Unused openings shall be closed using suitable blanking elements.

Routine tests

Routine tests according to EN 60079-1, Clause 16:

- The routine test for the compact version with a total tube length of less than 50 cm, including temperature reducer must be carried out at an overpressure of 3200 kPa.
- The routine test for the version with tube extension less than 100 cm including temperature reducer must be carried out at an overpressure of 3200 kPa.
- The routine test for the version with tube extension less than 300 cm including temperature reducer must be carried out at an overpressure of 6100 kPa.
- The routine test for the electronics enclosure must be carried out at an overpressure of 3400 kPa.

(16) **Test Report**

KEMA No. 211439200.

(17) **Special conditions for safe use**

Sensors covered with a non-conductive, non-metallic material are only allowed in a IIC environment when electrostatic charging is avoided.

(18) **Essential Health and Safety Requirements**

Assured by compliance with the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 211439200.