

(1) **EU - Type Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 2014/34/EU

(3) EU - Type Examination Certificate Number

**EPS 17 ATEX 1 107 U**

**Revision 0**

(4) Component: Gas Detection Sensors Type KGS 701, KGS 702, KGS 703, KGS 801, KGS 802, KGS 803

(5) Manufacturer: Korea New Ceramics Co., Ltd.

(6) Address: 11 Gyeongin-ro 364, Sosa-gu, Bucheon-si  
Gyeonggi-do 422-806 South Korea

(7) This component and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this component 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 of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 17TH0258.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

**EN 60079-0:2012+A11:2013**

**EN 60079-1:2014**

(10) The sign "U" placed behind the certificate number indicates that this certificate shall not be confounded with certificates issued for equipment or protective systems. This certificate is valid for a component without an autonomous function in sense of article 2 (3) and does not authorize for the CE-marking to be applied according to article 13 (3) of the Directive. This component certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

(11) This EU - Type Examination Certificate relates only to the design and examination of the specified component in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this component and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the component shall include the following:



II 2G Ex db IIC Gb

II 1G Ex da IIC Ga

Certification department of explosion protection

Nuremberg, 2017-10-13



H. Schaffer

(13) **Annex**

(14) **EU - Type Examination Certificate EPS 17 ATEX 1 107 U**

**Revision 0**

(15) Description of component:

The explosion protected sensor personates a pellistor or catalytic bead sensor for combustible gas detection.

Electrical data:

Type	Operating Voltage U	Operating Current I
KGS 701 and KGS 801	3,0 V DC	76 +/- 6 mA
KGS 702 and KGS 802	3,3 V DC	74 +/- 6 mA
KGS 703 and KGS 803	4,25 V DC	56 +/- 6 mA

For max ambient +55°C the temperature class T6 can be applied in final installation.

(16) Reference number: 17TH0258

(17) Notes for manufacture, installation and operation in EPL Gb

The ambient temperature range amounts  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +55^{\circ}\text{C}$ .

The sensor must be installed within apparatus that provides sufficient ingress protection. The supply voltage shall not exceed the values as indicated above for example by use of intrinsic safe power supply.

Notes for manufacture, installation and operation in EPL Ga:

The ambient temperature range amounts  $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +55^{\circ}\text{C}$ .

The sensor shall be supplied by a circuit of Level of Protection "ia", with a maximum dissipated power limited to max 1,3 W.

The sensor must be installed within apparatus that provides sufficient ingress protection and connection method must be assessed to comply with a type of protection suitable for the specific EPL.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Nuremberg, 2017-10-13

H. Schaner

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