



Translation

**EC-Type Examination Certificate**

(1)

(2)

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

(3)

**BVS 09 ATEX E 108 U**

(4)

**Equipment: Flame barrier type FS 30**

(5)

**Manufacturer: SK-Elektronik GmbH**

(6)

**Address: 51381 Leverkusen, Germany**

(7)

The design and construction of this component and any acceptable variation thereto are specified in the appendix to this type examination certificate.

(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 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 to the Directive.

The examination and test results are recorded in the test and assessment report BVS PP 09.2135 EG.

(9)

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

EN 60079-0:2006 General requirements  
EN 60079-1:2007 Flameproof enclosure

(10)

The sign "U" placed after the certificate number indicates that the certificate must not be mistaken for a certificate for equipment or a protective system. This certificate may only be used as the basis for the certification of equipment or a protective system.

(11)

This EC-Type Examination Certificate relates only to the design, examination and tests of the specified component in accordance to Directive 94/9/EC.

Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

(12)

The marking of the equipment shall include the following:



**II 2G Ex d IIC**

**DEKRA EXAM GmbH**

Bochum, dated 27. August 2009

Signed: Dr. Eickhoff

Certification body

Signed: Dr. Wittler

Special services unit

(13) Appendix to

(14) **EC-Type Examination Certificate**

**BVS 09 ATEX E 108 U**

(15) 15.1 Subject and type

Flame barrier type FS 30

15.2 Description

The flame barrier in type of protection flameproof enclosure is used to be mounted in conduits or as termination of analysers for use in explosive atmosphere. The flame barrier can be used with a service temperature of -20 °C up to +220 °C depending on the temperature class.

15.3 Parameters

Gas pressure range	0.8 up to 1.1 bar
Total volume of analyse room	up to 30 cm <sup>3</sup>
Gas flow rate	up to 100 l/h
Permitted service temperature for temperature class	
	T4 98 °C
	T3 165 °C
	T2 220 °C

(16) Test and assessment report

BVS PP 09.2135 EG as of 27.08.2009

(17) Special conditions for safe use

- The flame barrier type FS 30 is only for use with equipment / enclosures with a free volume of  $\leq 30\text{cm}^3$ .
- The mounting of the flame barrier type FS 30 has to be evaluated.

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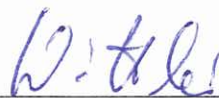
We confirm the correctness of the translation from the German original.  
In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 27.08.2009  
BVS-Kr/Ld/Ar A 20090633

**DEKRA EXAM GmbH**



Certification body



Special services unit