

Hinweis zum BAMOFLEX-Gerät mit ATEX-Zulassung:

Das Gerät besitzt eine **Ex i / Ex d-Zulassung**,

d.h., die **Sonde** ist durch eine im Gerät befindliche Ex ia Barriere geschützt.

Die Ein- und Ausgänge des Gerätes (alle 6 Anschlussklemmen) befinden sich in dem druckfesten Gerätegehäuse und benötigen **keine** Ex i - zugelassenen Anschlusskreise.

Es können somit handelsübliche Standard-Netzteile für die Spannungsversorgung und Standard-Strommesskreise an das Gerät angeschlossen werden.


Es sind somit auch keine zugelassenen Ex-Speisetrenner für den Signalkreis notwendig!
Einzige Anforderung: Die Kabeldurchführungen müssen Ex d zugelassen sein.

Die Sonde kann in Zone 0 eingebaut werden.



EC-Type Examination Certificate

- (1) **EC-Type Examination Certificate**
- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 94/9/EC**
- (3) Examination Certificate Number
SEV 09 ATEX 0171 X
- (4) Equipment: **TDR Level Sensor KFA2**
- (5) Manufacturer: **KFA SARL**
- (6) Address: **Rue Du Châlon, 26260 Clérieux, France**
- (7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) Electrosuisse SEV as notified body No. 1258 in accordance with article 9 of the Council Directive of the European Communities of 23 March 1994 (94/9/EC), 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 results of the examination are recorded in confidential report No. 09-IK-0358.01
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:
- | | | |
|-------------------------|------------------------|-------------------------|
| EN 1127-1:2007 | EN 60079-0:2009 | EN 60079-11:2007 |
| EN 60079-26:2007 | EN 60079-1:2007 | EN 61241-11 2006 |
| EN 61241-1:2004 | | |
- (10) If the sign «X» is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This examination certificate relates only to design and construction of the specified equipment in accordance to the directive 94/9/EC. Further requirements of this directive apply to the manufacturing process and the placing on the market of the equipment.
- (12) The marking of the equipment shall include the following:

 **see Appendix, page 3: (19) Markings**

Electrosuisse SEV
Certification Body ATEX

Fehraltorf, 2010-01-26

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Product Certification

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(13) **Appendix**

(14) **EC-Type Examination Certificate SEV 09 ATEX 0171 X**

(15) **Description of the equipment**

4-wire TDR-Sensor with single rod or coaxial probe for continuous level measurement and point level detection in liquids, with analog and switching output. The sensor is delivered without cable glands. It is the customer's responsibility to seal the two cable entries with approved cable glands.

Rating: Supply voltage: U = 12...30V DC (Um 250V AC)
 Analog output: I = 4...20mA (Um 250V AC)
 Switching output: Us = 0...U (Um 250V AC)

Rated ambient temperature range: -40°C to +70°C

The temperature class depends on ambient temperature and application temperature on the sensor. This relations are shown in the following tables:

CATEGORY 1/2G		
Temperature class	Application temperature	Ambient temperature
T1...T6	-20...+60°C	-40...+70°C
CATEGORY 2G		
T6	-40...+85°C	-40...+70°C
T5	-40...+100°C	-40...+70°C
T4	-40...+135°C	-40...+70°C
T1...T3	-40...+150°C	-40...+70°C
CATEGORY 1/2D and 2D		
max. surface temperature: +86°C		-40...+70°C

Appendix to EC-Type Examination Certificate SEV 09 ATEX 0171 X

- 16) Test Report 09-IK-0358.01
- (17) Special conditions for safe use
POWER DOWN WARNING:
 Marking and Safety Instruction: After de-energizing, wait 6 minutes before opening

CABLE ENTRIES AND CABLE GLANDS:
 Safety Instruction: The housing has two cable entries. For installation in hazardous areas, only cable glands certified according to IEC 60079-1 or certified conduit systems are permitted.

- (18) Fundamental essential health and safety requirements
 Fulfilled by the standards applied

(19) Markings

⊕ Ex II 1/2G	Ex ia/d IIC T6
⊕ Ex II 1/2D	Ex iaD/tD A20/21 IP68 T86°C
⊕ Ex II 2G	Ex ia d IIC T6
⊕ Ex II 2D	Ex iaD tD A21 IP68 T86°C

or in accordance with new standards:

⊕ Ex II 1/2G	Ex ia/d IIC T6 Ga/Gb
⊕ Ex II 1/2D	Ex ia/t IIIC T86°C Da/Db
⊕ Ex II 2G	Ex ia d IIC T6 Gb
⊕ Ex II 2D	Ex ia t IIIC T86°C Db

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