



(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 11 ATEX 0190**
- (4) Equipment: **Magnetic switch**
- (5) Manufacturer: **KFG Level AG**
- (6) Address: **Steuer- und Regeltechnik, Ruessenstrasse 4, CH-6340 Baar**
- (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, 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 or 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 12-IK-0015.01
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:
EN 60079-0:09 EN 60079-1:07 EN 60079-18:09
EN 60079-31:09
- (10) If the sign «X» is placed after the certificate number, it indicates that the equipment or protective system is subjected 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 with 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 page 3 of 3

 **Electrosuisse
Notified Body ATEX**

Martin Plüss
Product Certification



Fehraltorf, 2012-03-12

SEV 11 ATEX 0190 / page 1 of 3

(13)

Appendix

(14)

EC-Type Examination Certificate

(15) Description of the equipment

The KSR magnetic switch Type as per the type key is for monitoring and controlling magnetically recordable limit values.

With the "intrinsically safe" type of ignition protection, the device is used as a passive multi-pole device an intrinsically safe circuit, and can have different connection types and plug connections.

A version with the "flameproof enclosure" and "encapsulation" type of ignition protection is also made.

Type designation

See the type key in the supplement to the EC type test certificate.

Ratings

Version with type of ignition protection "intrinsically safe":

Input circuit magnetic switch,
also with option /R (protective
resistor)

With type of ignition protection "intrinsically safe"

Ex ia IIC

Only for connecting to one or more certified intrinsically safe circuit(s).

Maximum value for each circuit:

$$I_i \leq 100 \text{ mA}$$

The effective internal inductances and capacitances are negligibly low.

Input circuit magnetic switch,
with option /N (Namur circuit)

With type of ignition protection "intrinsically safe"

Ex ia IIC

Only for connection to a certified intrinsically safe circuit.

Maximum values:

$$U_i \leq 15 \text{ V}$$

$$I_i \leq 60 \text{ mA}$$

The effective internal inductances and capacitances are negligibly low.

Version with type of ignition protection "flameproof enclosure" / "encapsulation":

Input circuit magnetic switch, also with option /R (protective resistor) Only for connecting to a circuit with reliable limitation of the electrical characteristics to the following values:


Rated voltage $U_N = 250 \text{ VDC/AC}$
 Rated current $I_N = 100 \text{ mA}$

Input circuit magnetic switch, with option /N (Namur circuit) Only for connecting to a circuit with reliable limitation of the electrical characteristics to the following values:


Rated voltage $U_N = 15 \text{ VDC}$
 Rated current $I_N = 60 \text{ mA}$

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


Version with type of ignition protection "intrinsically safe":

 II 2G Ex ia IIC T6 to T1 Gb
 II 2D Ex tb IIIC T 80°C to T 300°C Db
 IP6X

Version with type of ignition protection "flameproof enclosure":

 II 2G Ex d IIC T6 to T4 Gb
 II 2D Ex tb IIIC T 80°C to T 120°C Db
 IP6X

Version with type of ignition protection "encapsulation":

 II 2G Ex mb IIC T6 to T5 Gb
 II 2D Ex tb IIIC T 80°C to T 95°C Db
 IP6X

(16) Test Report 12-IK-0015.01

(17) Special conditions for safe use

Keine
 None
 Aucune

(18) Fundamental essential health and safety requirements

Fulfilled by the standards applied



 **Electrosuisse**
Notified Body ATEX

Martin Plüss
 Product Certification




Fehraltorf, 2012-03-12

SEV 11 ATEX 0190 / page 3 of 3



Notification of recognition of the quality assurance production

Annex IV

(1)

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

(3) Conformity certificate number: **SEV 12 ATEX 4110**

(4) Equipment: Magnetic float switches, temperature sensors, level sensors, by-pass and horizontal float switches to be based on protection type "is", "d", "m", "t", "c"

A list of the EC-Type Examination Certificates covered by this notification is held by the notified body.

(5) Applicant: KFG Level AG Steuer- und Regeltechnik
Ruessenstrasse 4, CH-6340 Baar

(6) Manufacturer: KFG Level AG Steuer- und Regeltechnik
Ruessenstrasse 4, CH-6340 Baar

(7) Electrosuisse SEV, notified body number 1258 for Annex IV in accordance with article 9 of the council Directive 94/9/EC, notifies to the manufacturer that he has a production quality system which complies with Annex IV of the Directive.

(8) This notification is based on audit report no. 11-IK-0526.04 dated 2015-02-18.

(9) The results of a regular repeat evaluation of the quality assurance system form part of this notice.

(10) This notification is valid until 2018-02-18 and can be withdrawn if the manufacturer no longer satisfies the requirements of Annex IV.

(11) According to article 10 (1) of the Directive 94/9/EC the notified body assessing the examination phase must be indicated by showing the notified body number 1258 of Electrosuisse SEV beside the CE mark.

 **Electrosuisse**
Notified Body ATEX

Martin Plüss
Product Certification



Fehraltorf, 2015-02-23

SEV 12 ATEX 4110 / page 1 of 1