

# CERTIFICATE

## (1) EU-Type Examination

(2) **Safety Device, Controlling Device or Regulating Device intended for use outside a potentially explosive atmosphere but required for or contributing to the safe functioning of Equipment and Protective Systems with respect to the risks of explosion - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 02ATEX1248 X** Issue Number: **5**

(4) Product: **Magnetic Switches, Types MKF19X.AK / GKF19X.AK and MKR18X.AK / GKR18X.AK**

(5) Manufacturer: **SECATEC electronic GmbH**

(6) Address: **Knappenstrasse 154, 57581 Katzwinkel, Germany**

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

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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 NL/KEM/ExTR08.0011/\*\*.

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

**EN 60079-0 : 2012**

**EN 60079-18 : 2015**

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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



**II 2 G Ex mb IIC T6 Gb**  
**II 2 D Ex mb IIC T80 °C Db**

Date of certification: 7 September 2016

DEKRA Certification B.V.

M. Erdhuizen  
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 02ATEX1248 X**

Issue No.5

(15) **Description**

The Magnetic Switches, Types MKF19X.AK / GKF19X.AK and MKR18X.AK / GKR18X.AK, are used for contactless switching off resp. on of an electrical load by means of a movable magnet. The enclosure of the magnetic switch is provided with an integral connection cable intended for fixed installation.

The Magnetic Switches Types GKF19X.AK and GKR18X.AK are provided with a push button.

The push buttons are not assessed as a part of an Ex - enclosure according section 7 of standard EN 60079-0.

Ambient temperature range MKF19X.AK / GKF19X.AK: -40 °C to +70 °C;  
 MKR18XSAK / GKR18XSAK: -25 °C to +60 °C;  
 MKR18XUAK / GKR18XUAK: -25 °C to +70 °C.

**Electrical data**

	<u>MKF19XSAK</u> <u>GKF19XSAK</u>	<u>MKF19XUAK</u> <u>MKF19XOAK</u> <u>GKF19XUAK</u> <u>GKF19XOAK</u>	<u>MKR18XSAK</u> <u>GKR18XSAK</u>	<u>MKR18XUAK</u> <u>GKR18XUAK</u>
Switching voltage .....	48 Vac/dc	30 Vac/dc	230 Vac/dc	230 Vac/dc
Switching current .....	max. 0,2 A	max. 0,2 A	max. 3 A	max. 1 A
Switching power .....	10 W/VA	3 W/VA	60 W/VA	60 W/VA

**Installation instructions**

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/KEM/ExTR08.0011/\*\*.

(17) **Specific Conditions of Use**

The Magnetic Switches shall be installed such, that danger of mechanical impact and exposure to light is avoided.

The electrical specifications of the Magnetic Switches shall be met to secure the type of protection Ex mb. If supplementary a non resetting device is used for protection of the switch or the circuit to which the sensor is connected against overload, this device shall have a breaking capacity that is in compliance with the prospective short circuit current of the power supply.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/KEM/ExTR08.0011/\*\*.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 02ATEX1248 X**

Issue No.5

(20) **Certificate history**

Issue 1 - project no.202314300	initial certificate
Issue 2 - project no.202314300	Englisch translation of certificate
Issue 3 - project no.211232600	Update to the latest standards with Englisch translation
Issue 4 - project no.215007100	Update to latest standards and new generation test report
Issue 5 - project no.219145700	Update to latest standards Adding new cable sizes