



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	IECEX KEM 08.0009X	Issue No: 3	<u>Certificate history:</u> Issue No. 3 (2016-09-07) Issue No. 2 (2014-12-07) Issue No. 1 (2012-03-02) Issue No. 0 (2008-04-03)
Status:	<b>Current</b>	Page 1 of 4	
Date of Issue:	<b>2016-09-07</b>		
Applicant:	<b>SECATEC electronic GmbH</b> Knappenstrasse 154 57581 Katzwinkel <b>Germany</b>		
Equipment:	<b>Magnetic Switch</b>		
<i>Optional accessory:</i>			
Type of Protection:	<b>Ex mb</b>		
Marking:	Ex mb IIC T6 Gb Ex mb IIIC T80 °C Db		

*Approved for issue on behalf of the IECEx  
Certification Body:*

M. Erdhuizen

*Position:*

Certification Manager

*Signature:*  
*(for printed version)*

*Date:*

2016-09-07

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**DEKRA Certification B.V.**  
Meander 1051  
6825 MJ Arnhem  
The Netherlands





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Manufacturer: **SECATEC electronic GmbH**  
Knappenstrasse 154  
57581 Katzwinkel  
**Germany**

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-18 : 2014** Explosive atmospheres – Part 18: Equipment protection by encapsulation “m”  
Edition:4.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

#### Test Report:

NL/KEM/ExTR08.0011/00

NL/KEM/ExTR08.0011/01

NL/KEM/ExTR08.0011/02

#### Quality Assessment Report:

NL/DEK/QAR11.0068/00

NL/DEK/QAR11.0068/01

NL/DEK/QAR11.0068/02



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The magnetic switches, Types MKR13X.AK, 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. These push buttons are not assessed as a part of an Ex - enclosure according section 7 of standard IEC 60079-0.

Ambient temperature range:

MKR13X.AK: -20 °C to +60 °C

MKF19X.AK: -40 °C to +70 °C

GKR18XSAK: -25 °C to +60 °C

GKR18XUAK: -25 °C to +70 °C

Electrical data:

MKR13XUAK: 30 Vac/dc - max. 0,2 A - max. 3 WVA

MKR13XOAK, MKR13XUAK: 250 Vac/dc - max. 1 A - max. 60 WVA

MKR13XSAK, MKR13XRAK: 250 Vac/dc - max. 1 A - max. 120 WVA

MKF19XSAK, GKF19XSAK: 48 Vac/dc - max. 0,2 A - max. 10 WVA

MKF19XUAK, MKF19XOAK, GKF19XUAK, GKF19XOAK: 30 Vac/dc - max. 0,2 A - max. 3 WVA

MKR18XSAK, GKR18XSAK: 230 Vac/dc - max. 3 A - max. 60 WVA

MKR18XUAK, GKR18XUAK: 230 Vac/dc - max. 1 A - max. 60 WVA

### CONDITIONS OF CERTIFICATION: YES as shown below:

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 m. 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.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Update to the latest standards  
Adding new cable sizes 2 x 0,75 for type MKR18XSAK  
Adding new cable sizes 3 x 0,75 for type MKR18XUAK