



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

Certificate No.: IECEx KEM 09.0006X

Issue No: 1

Certificate history:

Issue No. 1 (2010-02-25)

Issue No. 0 (2010-01-27)

Status: **Current**

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Date of Issue: **2010-02-25**

Applicant: **MEDER electronic AG**
Robert-Bosch-Strasse 4
78224 Singen
Germany

Equipment: **Reed Sensor Type MK08-1...-BV..... and Type MK08-1.....-4000W**

Optional accessory:

Type of Protection: **mb tD**

Marking: Ex mb II T6
Ex tD A21 IP6X T85 °C

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

T. Pijpker

Position:

Certification manager

*Signature:
(for printed version)*

Date:

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:

KEMA Quality B.V.
Utrechtseweg 310
6812 AR Arnhem
The Netherlands

KEMA Quality
a DEKRA company



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Manufacturer: **MEDER electronic AG**
Robert-Bosch-Strasse 4
78224 Singen
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 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 : 2004 Edition:4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-18 : 2004 Edition:2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
IEC 61241-0 : 2004 Edition:1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition:1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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/ExTR09.0005/00](#)

Quality Assessment Report:

[NL/KEM/QAR08.0054/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description

Reed Sensors Type MK08-1...-BV..... and Type MK08-1...-4000W in several versions, with integral connection cable, are used to switch an electrical load. The switch is actuated under the influence of a permanent magnet.

Ambient temperature range -40 °C to +60 °C.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The Reed Sensor must be installed such that the risk of mechanical danger is excluded.
- The reed Sensor must be installed such that it is protected against exposure to light.
- The electrical circuit to which the Reed Sensor is connected must be protected with a suitably rated fuse, with a breaking capacity in accordance with the fault current of the circuit.



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EQUIPMENT (continued):

Electrical data

Type MK08-1.66-...	
Switching voltage	≦ 180 Vdc
Switching current	≦ 0,5 A
Switching power	≦ 10 VA
Type MK08-1.74-...	
Switching voltage	≦ 200 Vdc or 250 Vac
Switching current	≦ 1 A
Switching power	≦ 30 VA
Type MK08-1.75-... and Type MK08-1.75-...	
Switching voltage	≦ 400 Vdc
Switching current	≦ 0,5 A
Switching power	≦ 10 VA
Type MK08-1.84-... and Type MK08-1.84-...	
Switching voltage	≦ 400 Vdc
Switching current	≦ 0,5 A
Switching power	≦ 10 VA



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

Issue 1: Correction of typing errors