



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX KIWA 19.0026U** Page 1 of 4 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-01-22

Applicant: **StandexMeder Electronics GmbH**
Robert-Bosch-Straße 4
78224 Singen
Germany

Ex Component: Reed relays Series MRX..-....

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Ex i**

Marking: [Ex ia Ga] IIC

Approved for issue on behalf of the IECEx
Certification Body:

Harry de Wild

Position:

Certification Officer

Signature:
(for printed version)

Date:

22 January 2020

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 www.iecex.com or use of this QR Code.



Certificate issued by:

Kiwa Nederland B.V. (Unit Kiwa ExVision)
Wilmersdorf 50
7327 AC Apeldoorn
P.O. Box 137
Netherlands





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Manufacturer: **StandexMeder Electronics GmbH**
Robert-Bosch-Straße 4
78224 Singen
Germany

Additional
manufacturing
locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with 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/KIWA/ExTR19.0030/00](#)

Quality Assessment Report:

[NL/DEK/QAR13.0045/04](#)



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Ex Component(s) covered by this certificate is described below:

The reed relays, Series MRX... (for the exact models refer to the table below) serve for galvanic isolation between intrinsically safe and non-intrinsically safe circuits within associated apparatus. Either the coil circuit or the contact circuit can be in type of protection intrinsic safety.

In case of several contact circuits, from the safety point of view, the circuits shall be assumed to be connected to each other.

Service temperature range: -40 °C to +85 °C.

Models

<u>MRXxx-1Axx:</u>	<u>MRXxx-1Cxx:</u>	<u>MRXxx-2Axx:</u>
MRX05-1A66	MRX05-1C21	MRX05-2A71
MRX05-1A71	MRX05-1C90	MRX05-2A66
MRX05-1A74-BV335	MRX12-1C21	MRX05-2A85
MRX05-1A85	MRX12-1C21-BV250	MRX12-2A71
MRX06-1A79-BV250	MRX12-1C90	MRX12-2A66
MRX12-1A66	MRX12-1C90-BV409	MRX12-2A85
MRX12-1A71	MRX12-1C90-BV734	MRX24-2A66
MRX12-1A71/3-2-BV250	MRX24-1C90	MRX24-2A85
MRX12-1A79	MRX24-1C94-BV176	MRX24-2A71
MRX12-1A85		MRX24-2A71-BV416
MRX24-1A66		
MRX24-1A71		
MRX24-1A85		
<u>MRXxx-2Cxx:</u>	<u>MRXxx-4Axx:</u>	
MRX05-2C90	MRX05-4A66	
MRX12-2C90	MRX05-4A71	
	MRX05-4A85	
	MRX12-4A66	
	MRX12-4A71	
	MRX12-4A85	
	MRX24-4A66	
	MRX24-4A71	
	MRX24-4A85	



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Electrical data

$U_m = 250 \text{ V}$.

The rated values of the relays can be taken from instructions of the manufacturer.

The coil circuits and the contact circuits are infallibly galvanically separated up to peak voltage of 375 V.

SCHEDULE OF LIMITATIONS:

The reed relays must be mounted such that the connection pins are protected by a degree of protection of at least IP20.

When the coil circuit of the reed relay is connected to an intrinsically circuit, the spark ignition energy of the inductivity shall be made ineffective by suitably measures in accordance with IEC 60079-11 (e.g. two parallel diodes).