# 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**



Certificate history:
Issue 0 (2020-01-22)

Status: **Current**

Issue No: 1

Date of Issue: 2025-09-22

Applicant: **StandexMeder Electronics GmbH**
Friedrich-List-Straße 15
Engen-Welschingen 78234
**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: **Intrinsic Safety "ia"**

Marking: [Ex ia Ga] IIC

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

Position: **Senior Director of Operations, Toronto**

Signature:
(for printed version)

Date:
(for printed version)

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:

**CSA Group**
**178 Rexdale Blvd**
**Toronto Ontario M9W 1R3**
**Canada**

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Manufacturer: **StandexMeder Electronics GmbH**
Friedrich-List-Straße 15
Engen-Welschingen 78234
**Germany**

Manufacturing locations: **StandexMeder Electronics GmbH**
Friedrich-List-Straße 15
Engen-Welschingen 78234
**Germany**

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 component 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 component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

NL/KIWA/ExTR19.0030/00 NL/KIWA/ExTR19.0030/01

Quality Assessment Report:

NL/DEK/QAR13.0045/07

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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**

| MRXxx-1Axx: | MRXxx-1Cxx: | MRXxx-2Axx: |
|---|---|---|
| | | |
| 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 | | |
| | | |
| MRXxx-2Cxx: | MRXxx-4Axx: | |
| | | |
| 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 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:**

1. The reed relays must be mounted such that the connection pins are protected by a degree of protection of at least IP20.
2. 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).

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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**
This issue, **Issue 1**, introduced the following change:

1. To update the company address:

| From | To |
| --- | --- |
| Robert-Bosch-Straße 4<br>78224 Singen<br>Germany | Friedrich-List-Straße 15<br>78234 Engen-Welschingen<br>Germany |