CERTIFICATE

1 EU – Type Examination Certificate

2 Component Intended for use on/in an Equipment or Protective System Intended for use in Potentially Explosive Atmospheres – **Directive 2014/34/EU**

3 EU – Type Examination Certificate Number: **KIWA 19ATEX0051 U** **Issue: 1**

4 Product: **Reed relays Series MRX..-...**

5 Manufacturer: **StandexMeder Electronics GmbH**

6 Address: **Robert-Bosch-Straße 4, 78224 Singen, Germany**

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

8 Kiwa Nederland B.V., Notified Body number 0063 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 ATEX Assessment Report No. 190601177.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0 : 2018 **EN 60079-11 : 2012**

10 If the sign "U" is placed after the certificate number, it indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a bases for certification of an equipment of protective system.

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:

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Kiwa Nederland B.V.

Ronald Karel
Managing Director

Issue date: 22 January 2020

First issue: ---

This certificate shall, as far as applicable, be revised before the date of cessation of presumption of conformity of (one of) the included standards above as communicated in the Official Journal of the European Union.

13 # SCHEDULE

14 ## EU – Type Examination Certificate KIWA 19ATEX0051 U Issue No. 1

15.1 Description of Product

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

15.2 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.

13 # SCHEDULE

14 **EU – Type Examination Certificate KIWA 19ATEX0051 U Issue No. 1**

15.3 **Instructions**

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

16 **ATEX Assessment Report Number**

190601177.

17 **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).

18 **Essential Health and Safety Requirements**

All relevant Essential Health and Safety Requirements are covered by the standards listed at section 9.

19 **Drawings and Documents**

As listed in ATEX Assessment Report No. 190601177.