

Seite/Page <b>1</b>	von/of <b>2</b>	<b>Konformitätserklärung / Declaration of Conformity</b>	 <i>Products for harmonia...</i>
Erstellt/Issued by <b>QM</b>	Datum/Date <b>14.05.08</b>		

Wir/We

**MEDER electronic AG**  
**Robert-Bosch-Strasse 4**  
**78224 Singen / Htwl.**  
**Germany**

erklären in alleiniger Verantwortung, dass das Produkt/*declare under our sole responsibility that the product*

### **Reedrelais MRX...-..... / Reed Relays MRX...-.....**

auf das sich diese Erklärung bezieht, mit der/den folgenden Norm(en) oder normativen Dokumente(en) übereinstimmt./  
*to which this declaration relates is in conformity with the following standard(s) or other normative document(s).*

Richtlinie 94/9/EG des Europäischen Parlaments und des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten für Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen / Anhang IV und VII

*Directive 94/9/EC of the European Parliament and the council for the harmonization of the legal regulations of member states for devices and protective systems designed for use in areas subject to explosion hazards / Annex IV and VII*

EN 50014 : 1997 Elektrische Betriebsmittel für explosionsgefährdete Bereiche - Allgemeine Bestimmungen

*EN 50014 : 1997 Electrical apparatus for potentially explosive atmospheres - General requirements*

EN 50020 : 1994 Elektrische Betriebsmittel für explosionsgefährdete Bereiche; Vergußkapselung m

*EN 50020 : 1994 Electrical apparatus for potentially explosive atmospheres. Encapsulation 'm'*

Benannte Stelle:/*Notified Body:*

**Physikalisch-Technische  
 Bundesanstalt  
 Bundesallee 100  
 38116 Braunschweig  
 Deutschland  
 Kennnummer: 0102**

EG-Baumusterprüfbescheinigung:/*EC-Type Examination Certificate:* **PTB 01 ATEX 2050 U**

**Singen, den 14.05.08**

(Ort und Datum der Ausstellung)/(*Place and date of issue*)

**MEDER electronic AG**

Kai Olbrich

(Name und Unterschrift oder gleichwertige Kennzeichnung des Befugten)/(*name and signature or equivalent marking of authorized person*)

Seite/Page <b>2</b>	von/of <b>2</b>	<b>Konformitätserklärung / Declaration of Conformity</b>	 <i>Products for tomorrow...</i>
Erstellt/Issued by <b>QM</b>	Datum/Date <b>14.05.08</b>		

## Mounting instruction for relays MRX series

Manufacturer: MEDER electronic AG, Robert-Bosch-Strasse 4, 78224 Singen / Htwl. Germany

Those Reed Relays serve as galvanic isolation of intrinsically safe circuits and not intrinsically safe circuits within operating devices which are installed outside an explosive area.

The coil or the contacts can be connected with the intrinsically safe circuit. The circuits controlled by these contacts can only be of 1 type –i.e. intrinsically safe or not intrinsically safe. Mixing of circuits is not permitted. Connection of 2 safe circuits by means of the relay contacts is only permitted if, in the process, intrinsic safety is not lost.

### Scope

Types	- MRX♦♦-♦A71
	- MRX♦♦-♦A79
	- MRX♦♦-♦A88
	- MRX♦♦-1C90
	- MRX♦♦-1C21

Relays with contacts A71 and A79 may be constructed 1-pole, 2-pole or 4-pole.

Relays with contact A88 may be constructed 1-pole or 2-pole.

Relays with contacts C90 and C21 are only constructed 1-pole.

When operating the Relays it is important that the maximum temperature of 100°C, combined from self-heating and maximum ambient temperature, is never exceeded.

The maximum coil voltage may be calculated from the coil resistance and thermal resistance stated on the individual datasheets.

### Valid contact data

	<b>A71</b>	<b>A79</b>	<b>A88</b>	<b>C90</b>	<b>C21</b>
<b>Switching Capacity</b> max.	10W	10W	50W	7W	5W
<b>Switching Voltage</b> max.	200 VDC	250 VAC	250 VDC	28 VDC	100 VDC
<b>Switching Current</b> max.	0,5 A	0,5 A	1 A	240 mA	240 mA

Any combination of the above named switching current and switching voltage must not exceed the maximum rated power.

### Marking

Date code (according to EN 60062 / 2-digit)

Company label

Type description

Short symbol of the inspection authority

Number of the certificate

Type of protection [EEx ia] II C



II (1) G