

Mounting instruction for Reed Relay MRX series

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

	A71	A79	A88	C90	C21
Switching Capacity max.	10W	10W	50W	7W	5W
Switching Voltage max.	200 VDC	250 VAC	250 VDC	28 VDC	100 VDC
Switching Current 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.

Attention should be paid to the combination of nominal current and nominal inductivity of the relay coil. Both is ignitable acc. gas group IIC. In case that the coil drive want to be designed into the application acc. „intrinsic safety“, the coil inductivity must be eliminated by e.g. two parallel diodes. The diodes must be interference robust, acc. paragraph 7.6 of EN60079-11:2012, and have to be interference robust connected tot he relay coil, acc. paragraph 8.8.

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



II (1) G [Ex ia Ga] II C