

## PUBLIC PRODUCT DATASHEET

# MRS02A series molded dry reed switch sample V2.0 Magnetic Sensor / Reed Switch Datasheet

MRS02A series molded dry reed switch sample V2.0 is part of the Magnetic Sensor / Reed Switch range from SHR MiRelay. This English public datasheet has been rebuilt under the current SHR AUTOSENSOR TECH LIMITED identity for customer selection, sample purchase and RFQ support.

<b>Product Family</b> Magnetic Sensor / Reed Switch	<b>Model</b> MRS02A series molded dry reed switch sample V2.0	<b>Purchase Path</b> Sample order or RFQ confirmation
<b>Manufacturer</b> SHR AUTOSENSOR TECH LIMITED	<b>Website</b> www.reed-relay.com	<b>Sales Contact</b> sales@reed-relay.com
<b>Contact Resistance</b> (@0.5V&50mA) mΩ 150	<b>Insulation Resistance</b> , up to 1010Ω	<b>Release Time</b> 0.1
<b>Operating Temperature</b> erature deg C -40-+130	<b>Storage Temperature</b> erature deg C -50-+130	<b>High Insulation resistance, up to</b> 1010Ω

## Key Features

- Small single-contact switch
- High Insulation resistance, up to 1010Ω
- Suitable for low power operation
- Suitable for tape or reel packaging
- Custom Design, conforming to Rohs directive

## Technical Specifications

Parameter	Value
Contact Resistance	(@0.5V&50mA) mΩ 150
Insulation Resistance	, up to 1010Ω
Release Time	0.1
Operating Temperature	erature deg C -40-+130
Storage Temperature	erature deg C -50-+130
High Insulation resistance, up to	1010Ω
Switching Voltage(Max DC/Peak AC) V	180
Switching Current(Max DC/Peak AC) A	0.5
Carry current(max.) A	1.0
Contact Resistance(@0.5V&50mA) mΩ	150
Breakdown Voltage VDC	200
Insulation Resistance(Rh<45%,100V Test Vo	1010

## Specification Notes

## MRS02A Series

### Molded Dry Reed Switch

#### 1 Feature

Small single-contact switch

High Insulation resistance, up to 1010Ω

Suitable for low power operation

Suitable for tape or reel packaging

Custom Design, conforming to Rohs directive

#### 2 Performance Data

Model / MRS02A-

Rated Power(max.) W 10

Switching Voltage(Max DC/Peak AC) V 180

Switching Current(Max DC/Peak AC) A 0.5

Carry current(max.) A 1.0

Contact Resistance(@0.5V&50mA) mΩ 150

Breakdown Voltage VDC 200

Insulation Resistance(Rh<45%,100V Test Voltage) Ω 1010

Operating Time(max.) ms 0.6

Release Time(max.) ms 0.1

Capacitance(typ.) pF 0.3

Vibration Resistance G 20

Shock Resistance(11ms, 1/2 ) G 30

Operating Temperature deg C -40+130

Storage Temperature deg C -50+130

#### 3 Example of order marking

MRS02A - - (XXX)

① ② ③ ④

① Product model: MRS02A

② Magnetic sensitivity(AT): A: 05-10; B: 10-15; C: 15-20

D: 20-25; E: 25-30; F: 30-35; G: 35-40

③ PIN mode: 0: Original reed straight pin; 1: Flat straight pin

2: Flat and curved SMD pins

④ Special code: Customer special requirement

SHR SENSOR & RELAY

sales@reed-relay.com

#### 4 Outline drawing

1)Original Reed straight pin

)Flat straight pin

)SMD pin

#### 5 Layout

#### 6 Precautions for use

- Avoid installation in areas directly exposed to rain, strong magnetic fields, or near objects with thermal radiation.
- Avoid excessive bulk density in use, which may affect the electrical characteristics of the switch.
- Excessive mechanical shock strength may change its magnetic sensitivity or even damage the switch.
- Use appropriate pin tightening or heat dissipation to prevent mechanical or thermal stress during welding.
- The maximum welding temperature is 260 deg C and the time is less than 5 seconds.

Statement:

he document is for customer reference only. Specifications and parameters may be changed due to product improvement. For the specific parameters and performance of each product, please refer to the specifications and samples provided by SHR SHR MiRelay without further notice.

Performance parameters vary from application area to application area, so customers should choose the appropriate product according to the specific conditions of use, if in doubt, please contact SHR SHR SHR MiRelay Electronics Co. , Ltd. for more technical support.

## Ordering & Engineering Support

For production projects, confirm coil voltage, contact form, switching voltage/current, load type, operating environment, target quantity and required approvals before release. Contact sales@reed-relay.com or +86 137 6157 1029 for datasheet confirmation, sample availability and cross-reference support.

Address: Room 311, No. 18 Hangchuan Road, Pudong New District, Shanghai, China

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