

## PUBLIC PRODUCT DATASHEET

# MRS06 series PCB mounting reed switch sample V2.0 Magnetic Sensor / Reed Switch Datasheet

MRS06 series PCB mounting 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> MRS06 series PCB mounting 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 200 150 200 150	<b>Insulation Resistance</b> , up to 109Ω	<b>Release Time</b> 0.1 0.1 0.1 1.5
<b>Operating Temperature</b> erature deg C -40-+130 -40-+130 -40-+130 -40-+130	<b>Storage Temperature</b> erature deg C -50-+130 -50-+130 -50-+130 -50-+130	<b>High Insulation resistance, up to</b> 109Ω

## Key Features

- Small single-contact switch
- Single Inline package
- High Insulation resistance, up to 109Ω
- Suitable for low power operation
- Custom Design, conforming to Rohs directive

## Technical Specifications

Parameter	Value
Contact Resistance	(@0.5V&50mA) mΩ 200 150 200 150
Insulation Resistance	, up to 109Ω
Release Time	0.1 0.1 0.1 1.5
Operating Temperature	erature deg C -40-+130 -40-+130 -40-+130 -40-+130
Storage Temperature	erature deg C -50-+130 -50-+130 -50-+130 -50-+130
High Insulation resistance, up to	109Ω
Switching Voltage(Max DC/Peak AC) V 170 20	175
Switching Current(Max DC/Peak AC) A 0.5 0.	0.5
Carry current(max.) A 0.5 0.5 1.25	1.0
Contact Resistance(@0.5V&50mA) mΩ 200 150	150

Parameter	Value
Breakdown Voltage VDC 210 230 250	200
Insulation Resistance(Rh<45%,100V Test Vol)	109

## Specification Notes

MRS06 Series

PCB Mounting Reed Switch

1 Feature

Small single-contact switch

Single Inline package

High Insulation resistance, up to 109Ω

Suitable for low power operation

Custom Design, conforming to Rohs directive

2 Performance Data

Model / MRS06-4-

MRS06-5-

MRS06-6-

MRS06-7-

MRS06-8-

MRS06-10-

NO SPDT

Rated Power(max.) W 10 10 10 10

Switching Voltage(Max DC/Peak AC) V 170 200 180 175

Switching Current(Max DC/Peak AC) A 0.5 0.4 0.5 0.5

Carry current(max.) A 0.5 0.5 1.25 1.0

Contact Resistance(@0.5V&50mA) mΩ 200 150 200 150

Breakdown Voltage VDC 210 230 250 200

Insulation Resistance(Rh<45%,100V Test Voltage) Ω 109 109 1010 109

Operating Time(max.) ms 0.6 0.6 0.6 0.7

Release Time(max.) ms 0.1 0.1 0.1 1.5

Capacitance(typ.) pF 0.4 0.2 0.3 1.5

Vibration Resistance G 20 20 20 20

Shock Resistance(1/2 sine wave duration 11ms) G 30 30 30 30

Operating Temperature deg C -40-+130 -40-+130 -40-+130 -40-+130

Storage Temperature deg C -50-+130 -50-+130 -50-+130 -50-+130

3 Example of order marking

MRS06 - - (XXX)

① ② ③ ④

① Product model: MRS06

② Size classification: 4; 5; 6; 7; 8; 10

③ Magnetic sensitivity(AT): NO: [A: 05-10; B: 10-15; C: 15-20 ; D: 20-25; E: 25-30; F: 30-35; G: 35-40]

SPDT: [H: 15-20; I: 20-25; K: 25-30]

④ Special code: Customer special requirement

SHR SENSOR & RELAY

sales@reed-relay.com

4 Outline drawing

ize(mm)

Model

L W H D h1 I1

(SPDT)

MRS06-4- 11.4 2.7 5.7 0.3 2.8 10.16 /

MRS06-5- 14.4 2.8 6.1 0.4 3.2 12.7 /

MRS06-6- 17 3 6.1 0.4 3.2 15.24 /

MRS06-7- 20 3.3 7.1 0.5 4.2 17.78 /

MRS06-8- 22.3 3.5 7.1 0.5 4.2 20.32 17.78

MRS06-10- 28.5 3.81 8.26 0.5 5.3 25.4 /

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 improvem-

## 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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