PIC
SWITCHING THE SMART WAY

MS-313R-3

World´s smallest Reed Sensor
Flatpack

Electrical Characteristics		@ 25 °C
Contact form		A
Contact rating max.	W / VA	10
Switching voltage max.	VDC	150
	VAC	120
Switching current max.	A	0.5
Carry current max.	A	0.7
Breakdown voltage min.	VDC	200
Total resistance max. (initial)	mΩ	400
Insulation resistance min.	Ω	10^9

Features

- Adjustable switching point
- Ultra miniature size
- Customized types available

Magnetical Characteristics (of unmodified Reed Switch)		@ 25 °C
Pull in range available	AT	10 - 20
Drop out min.	AT	4
Test coil	TC	010
Test equipment tolerance	± AT	2

Approvals

RoHS

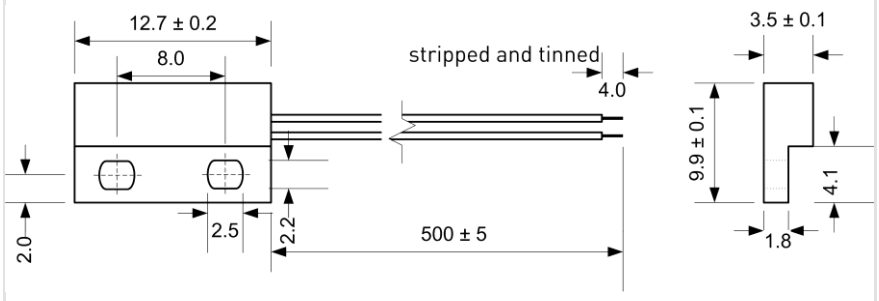
REACH

IP67

Operating Characteristics (of unmodified Reed Switch)		@ 25 °C
Switching frequency max.	Hz	600
Resonant frequency typ.	Hz	12000
Operate time max. (incl. bounce)	ms	0.3
Release time max.	ms	0.1

Environmental Characteristics		
Operating temperature	°C	-20 to +85
Vibration (50-2000 Hz)	g	10
Shock (1/2 sin 11 ms)	g	50

Dimensions in mm



Ordering Information

Packing Unit	50	pcs
Weight per piece	3.4	g
Weight per package	185	g
Standard AT Ranges		
1 = 10 to 15	AT	
2 = 15 to 20	AT	

Ordering Example

MS-313R-3-1-0500 describes
MS-313R with 10-15 AT

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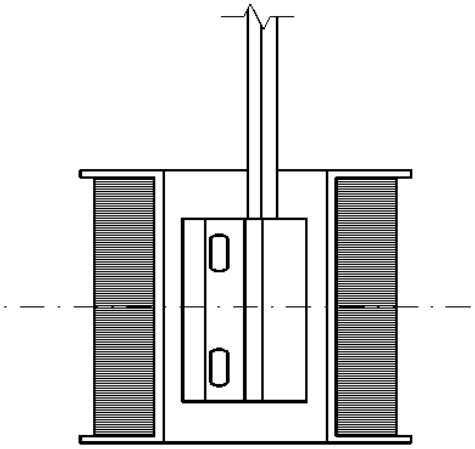
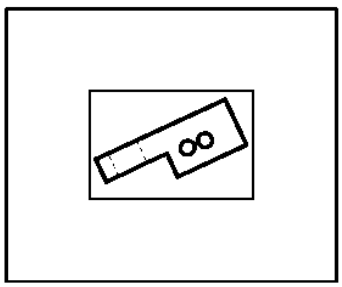
Material Information

	Material	Colour
Housing	ABS	black
Potting compound	Epoxy	black
Cable	UL 1007/1569, AWG 26, 4 mm stripped and tinned	black

Test Procedure of final Reed Sensor





Test Coil placed in vertical position

Reed Sensor diagonally centered in Test Coil

Test Parameters

Test coil	TC-320
Test programs	
AT range	Test program
1 =	MS-313R-3-1
2 =	MS-313R-3-2

Remarks

When mounted onto ferromagnetic parts switching distance of MS-313R-3 may reduce.
Electromagnetical influences and magnetic fields may change the switching behaviour of the sensor.

Only non-ferromagnetic screws to be used for mounting.

Matching actuator MSM-313 available as well.

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