PIC
SWITCHING THE SMART WAY



MS-216-7

Normally Closed Reed Sensor

Electrical Characteristics @ 25 °C

Contact form		B
Contact rating max.	W / VA	5
Switching voltage max.	VDC	175
	VAC	120
Switching current max.	A	0.25
Carry current max.	A	1.5
Breakdown voltage min.	VDC	200
Total resistance max. (initial)	mΩ	200
Insulation resistance min.	Ω	10^9

Features

- Compact size
- Mechanically protected
- Non pole oriented actuation
- Customized types available

Magnetical Characteristics (of unmodified Reed Switch) @ 25 °C

Pull in range available	AT	15 - 30
Drop out min.	AT	5
Test coil	TC	200
Test equipment tolerance	± AT	2

Approvals

RoHS

REACH

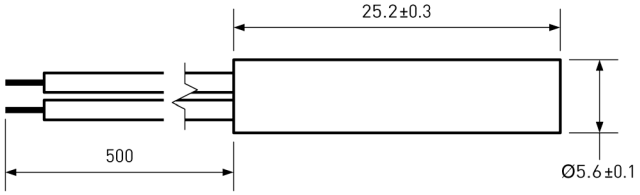
Operating Characteristics (of unmodified Reed Switch) @ 25 °C

Switching frequency max.	Hz	100
Resonant frequency typ.	Hz	1100
Operate time max. (incl. bounce)	ms	0.7
Release time max.	ms	1

Environmental Characteristics

Operating temperature	°C	-20 to +85
Vibration (50-2000 Hz)	g	30
Shock (1/2 sin 11 ms)	g	50

Dimensions in mm



Ordering Information

Packing Unit	50	pcs
Weight per piece	3.8	g
Weight per package	195	g
Standard AT Ranges		
2 = 15 to 20 AT		
3 = 20 to 25 AT		
4 = 25 to 30 AT		

Ordering Example

MS-216-7-2-0500 describes
MS-216-7 with 15 to 20 AT.

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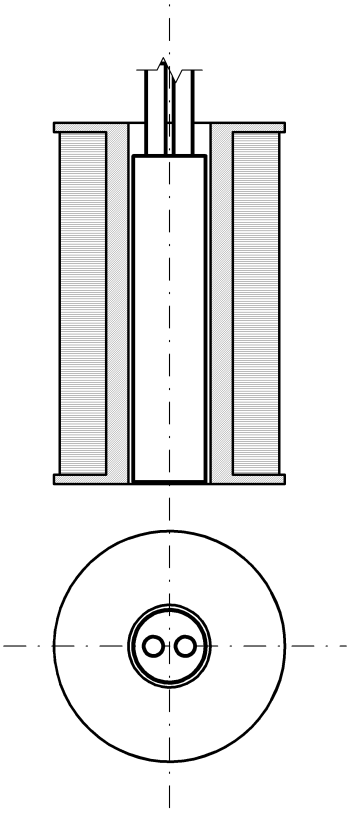
Material Information

	Material	Colour
Housing	ABS	black
Cable	UL 1007/1569, AWG 24, 4 mm stripped and tinned	black
Potting compound	Epoxy	black

Test Procedure of final Reed Sensor



Test Coil placed in vertical position

Reed Sensor aligns with bottom line

Reed Sensor centered in Test Coil

Test Parameters

Test coil	TC- 093
Test programs	

AT range	Test program
2 =	MS-216-7-2
3 =	MS-216-7-3
4 =	MS-216-7-4

Remarks

When mounted onto ferromagnetic parts switching distance of MS-216-7 may reduce.
Electromagnetical influences and magnetic fields may change the switching behaviour of the sensor.

Product image serves as example only.

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