PIC
SWITCHING THE SMART WAY

MS-320-3

Snap-fit Miniature Reed Sensor

Electrical Characteristics		@ 25 °C
Contact form		A
Contact rating max.	W / VA	10
Switching voltage max.	VDC	180
	VAC	130
Switching current max.	A	0.7
Carry current max.	A	1
Breakdown voltage min.	VDC	200
Total resistance max. (initial)	mΩ	200
Insulation resistance min.	Ω	10^9

Features

- Compact size
- Easily mountable and removable as no tools or screws required
- Various sensitivity ranges available
- Customized types available

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

Approvals

RoHS

REACH

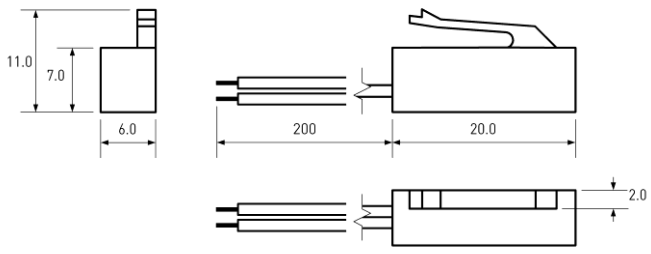
IP67

cULus

Operating Characteristics (of unmodified Reed Switch)		@ 25 °C
Switching frequency max.	Hz	500
Resonant frequency typ.	Hz	5000
Operate time max. (incl. bounce)	ms	0.5
Release time max.	ms	0.3

Environmental Characteristics		
Operating temperature	°C	-20 to +85
Vibration (50-2000 Hz)	g	20
Shock (1/2 sin 11 ms)	g	100

Dimensions in mm



Ordering Information

Packing Unit	50	pcs
Weight per piece	3.1	g
Weight per package	165	g
Standard AT Ranges		
1 =	10 to 15	AT
2 =	15 to 20	AT
3 =	20 to 25	AT

Ordering Example

MS-320-3-2 describes MS-320-3 with 15 to 20 AT.

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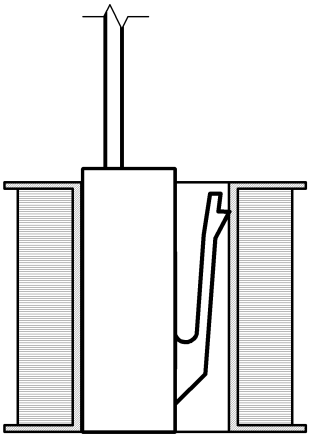
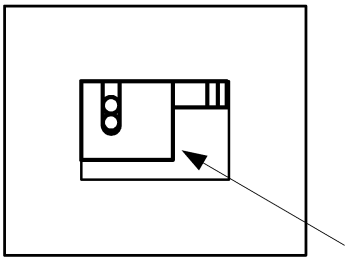
Material Information

	Material	Colour
Housing	PA-GF	black
Cable	UL 1061, AWG 22, 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 positioned in corner of Test Coil

Test Parameters

Test coil	TC- 320
Test programs	

AT range	Test program
1 =	MS-320-3-1
2 =	MS-320-3-2
3 =	MS-320-3-3

Remarks

When mounted onto ferromagnetic parts switching distance of MS-320-3 may reduce.
Electromagnetical influences and magnetic fields may change the switching behaviour of the sensor.

Matching actuator MSM-320 available as well.

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