PIC
SWITCHING THE SMART WAY

MS-390-5

MS-390-5

Snap-fit mains switching
Reed Sensor

Electrical Characteristics		@ 25 °C
Contact form		A
Contact rating max.	W / VA	10
Switching voltage max.	VDC	200
	VAC	260
Switching current max.	A	0.3
Carry current max.	A	1.4
Breakdown voltage min.	VDC	400
Total resistance max. (initial)	mΩ	200
Insulation resistance min.	Ω	10^{10}

Features

- Easily mountable and removable as no tools or screws required
- Snap-fit Sensor, mains voltage
- Various sensitivity ranges available
- Customized types available

Magnetical Characteristics (of unmodified Reed Switch)		@ 25 °C
Pull in range available	AT	15 - 30
Drop out min.	AT	4
Test coil	TC	200
Test equipment tolerance	± AT	2

Approvals

RoHS

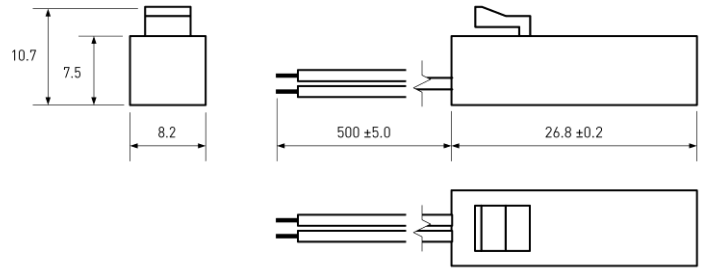
REACH

IP67

Operating Characteristics (of unmodified Reed Switch)		@ 25 °C
Switching frequency max.	Hz	400
Resonant frequency typ.	Hz	4000
Operate time max. (incl. bounce)	ms	0.6
Release time max.	ms	0.2

Environmental Characteristics		
Operating temperature	°C	-20 to +85
Vibration (50-2000 Hz)	g	30
Shock (1/2 sin 11 ms)	g	100

Dimensions in mm



Ordering Information

Packing Unit	25	pcs
Weight per piece	6.2	g
Weight per package	170	g
Standard AT Ranges		
2 =	15 to 20	AT
3 =	20 to 25	AT
4 =	25 to 30	AT

Ordering Example

MS-390-5-2-0500 describes
MS-390-5 with 15 to 20 AT.

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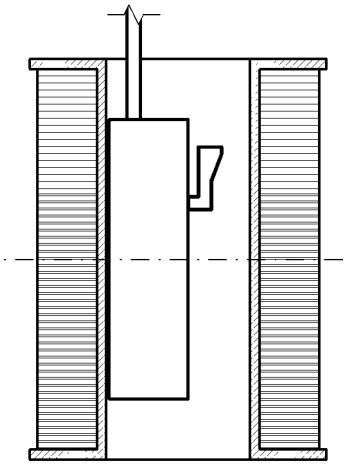
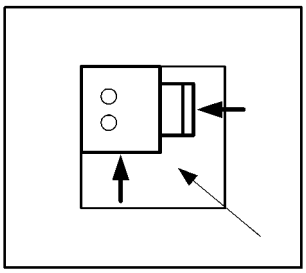
Material Information

	Material	Colour
Housing	PC	black
Cable	UL 1007, 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 axially centered in Test Coil

Reed Sensor pushed into opposite corner of Test Coil

Test Parameters

Test coil	TC- 324
Test programs	

AT range	Test program
2 =	MS-390-5-2
3 =	MS-390-5-3
4 =	MS-390-5-4

Remarks

When mounted onto ferromagnetic parts switching distance of MS-390-5 may reduce.
Electromagnetical influences and magnetic fields may change the switching behaviour of the sensor.

Matching actuator MSM-390 available as well.

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