

MS-390-3






MS-390-3

Snap-fit Miniature Reed Sensor

Electrical Characteristics		@ 25 °C
Contact form		A
Contact rating max.	W / VA	10
Switching voltage max.	VDC	200
	VAC	140
Switching current max.	A	1
	Carry current max.	A
Breakdown voltage min.	VDC	240
Total resistance max. (initial)	mΩ	180
Insulation resistance min.	Ω	10 ¹⁰

Features
➤ Easily mountable and removable as no tools or screws required
➤ Various sensitivity ranges available
➤ Customized types available

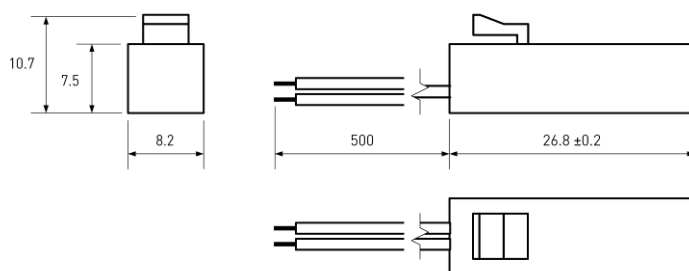
Magnetical Characteristics (of unmodified Reed Switch)		@ 25 °C
Pull in range available	AT	10 - 25
Drop out min.	AT	4
Test coil	TC	014
Test equipment tolerance	± AT	2

Approvals




Operating Characteristics (of unmodified Reed Switch)		@ 25 °C
Switching frequency max.	Hz	500
Resonant frequency typ.	Hz	4000
Operate time max. (incl. bounce)	ms	1
Release time max.	ms	0.4

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	25 pcs
Weight per piece	6.2 g
Weight per package	170 g
Standard AT Ranges	
1 =	10 to 15 AT
2 =	15 to 20 AT
3 =	20 to 25 AT
Ordering Example	
MS-390-3-2-0500 describes MS-390-3 with 15 to 20 AT.	

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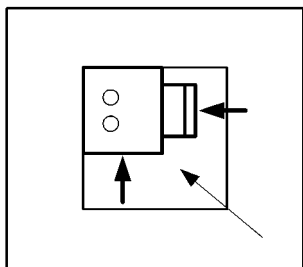
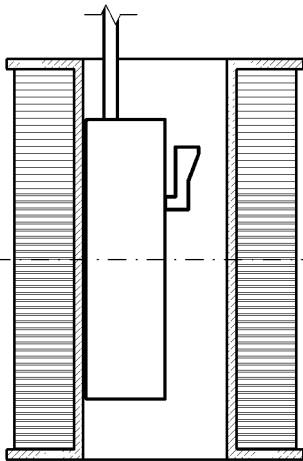
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Material Information

	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 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
1 =	MS-390-3-1
2 =	MS-390-3-2
3 =	MS-390-3-3

Remarks

When mounted onto ferromagnetic parts switching distance of MS-390-3 may reduce.
Electromagnetical influences and magnetic fields may change the switching behaviour of the sensor.

Matching actuator MSM-390 available as well.