

MS-2431-7



MS-2431-7

Press-fit Sensor Form B

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
<ul style="list-style-type: none"> ➤ Easily mountable and removable as no tools or screws required ➤ Replaces various competitors types ➤ Not ESD sensitive

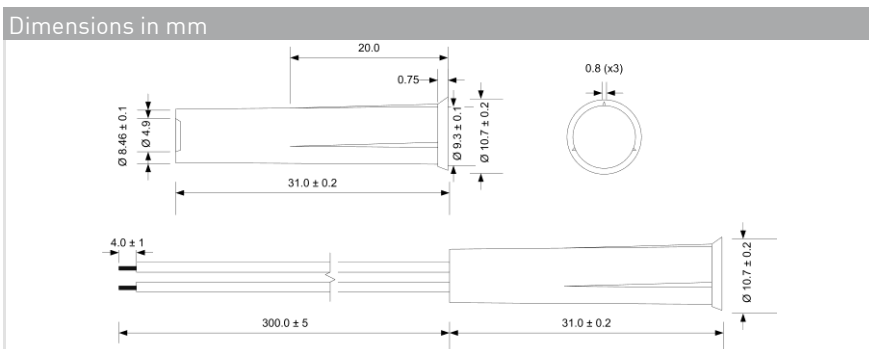
Magnetical Characteristics (of unmodified Reed Switch)		@ 25 °C
Pull in range available	AT	10 - 30
Drop out min.	AT	6
Test coil	TC	200
Test equipment tolerance	± AT	2

Approvals
<div style="border: 1px solid black; background-color: #0056b3; color: white; padding: 5px; display: inline-block; margin-bottom: 10px;">RoHS</div> <div style="border: 1px solid black; background-color: #0056b3; color: white; padding: 5px; display: inline-block;">REACH</div>

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 (10-1000 Hz)	g	30
Shock (1/2 sin 11 ms)	g	50

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Ordering Information	
Packing Unit	50 pcs
Weight per piece	0 g
Weight per package	0 g
Standard AT Ranges	
	1 = 10 to 15 AT
	2 = 15 to 20 AT
	3 = 20 to 25 AT
	4 = 25 to 30 AT
Ordering Example	
MS-2431-7-1-0300 describes MS-2431 Form B with 10-15 AT	

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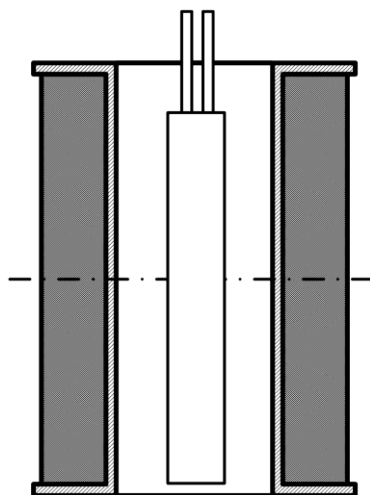
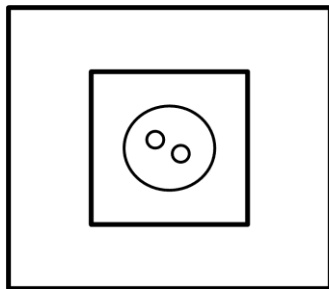


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Material Information		
	Material	Colour
Housing	PA-GF	white
Cable	UL 1569, AWG 24, 4mm stripped and tinned	black
Potting compound	Epoxy	black

Test Procedure of final Reed Sensor



- Test Coil placed in vertical position
- Reed Sensor aligns with bottom line
- Reed Sensor axially centered in Test Coil

Test Parameters

Test coil	TC- 324
Test programs	
AT range	Test program
1 =	MS-2431-7-1
2 =	MS-2431-7-2
3 =	MS-2431-7-3
4 =	MS-2431-7-4

Remarks

When mounted onto ferromagnetic parts switching distance of MS-2431-7 may reduce.
Electromagnetical influences and magnetic fields may change the switching behaviour of the sensor.

Recommended drill diameter 9.5 mm

Matching actuator MSM-... available as well.