

MS-104-3

Micro Reed Sensor
pitch 10.16 mm

Electrical Characteristics @ 25 °C

Contact form		A
Contact rating max.	W / VA	10
Switching voltage max.	VDC	150
	VAC	120
Switching current max.	A	0.5
Carry current max.	A	0.7
Breakdown voltage min.	VDC	200
Total resistance max. (initial)	mΩ	200
Insulation resistance min.	Ω	10^9

Features

- Ultra miniature size
- Mechanically protected
- Various sensitivity ranges available
- Customized types available

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

Pull in range available	AT	10 - 20
Drop out min.	AT	4
Test coil	TC	010
Test equipment tolerance	± AT	1

Approvals

RoHS

REACH

cULus

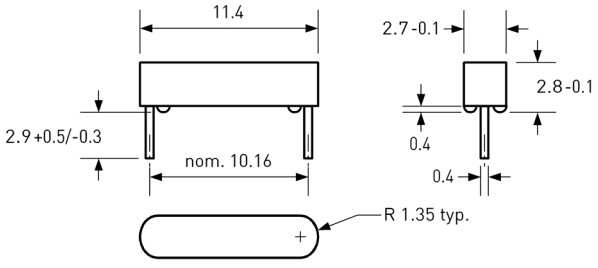
Operating Characteristics (of unmodified Reed Switch) @ 25 °C

Switching frequency max.	Hz	600
Resonant frequency typ.	Hz	12000
Operate time max. (incl. bounce)	ms	0.3
Release time max.	ms	0.1

Environmental Characteristics

Operating temperature	°C	-20 to +85
Vibration (50-2000 Hz)	g	10
Shock (1/2 sin 11 ms)	g	50

Dimensions in mm



Ordering Information

Packing Unit	1500	pcs
Weight per piece	0.12	g
Weight per package	225	g
Standard AT Ranges		
1 =	10 to 15	AT
2 =	15 to 20	AT

Ordering Example

MS-104-3-1 describes MS-104-3 with 10 to 15 AT.

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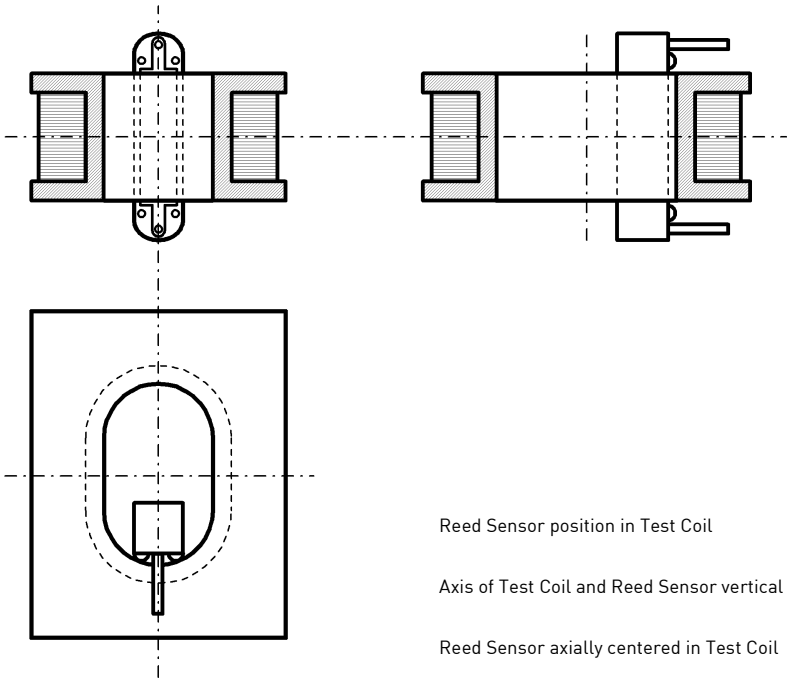
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Material Information

	Material	Colour
Housing	PA-GF	black
Potting compound	Epoxy	black

Test Procedure of final Reed Sensor



Reed Sensor position in Test Coil

Axis of Test Coil and Reed Sensor vertical

Reed Sensor axially centered in Test Coil

Leads of Reed Sensor fixed by test jig

Test Parameters

Test coil	TC-308
Test programs	

AT range	Test program
1 =	MS-104-3-1
2 =	MS-104-3-2

Remarks

When mounted onto ferromagnetic parts switching distance of MS-104-3 may reduce.
Electromagnetical influences and magnetic fields may change the switching behaviour of the sensor.

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