

MS-105-3



MS-105-3

Miniature Reed Sensor
pitch 12.70 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

- > Small size
- > Mechanically protected
- > Replaces various competitors types
- > 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

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

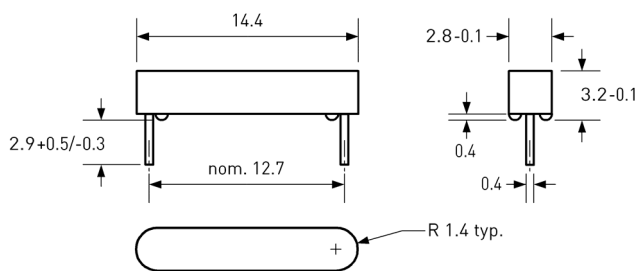
Environmental Characteristics

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

Approvals



Dimensions in mm



Ordering Information

Packing Unit	1000 pcs
Weight per piece	0.17 g
Weight per package	215 g
Standard AT Ranges	
	1 = 10 to 15 AT
	2 = 15 to 20 AT

Ordering Example

MS-105-3-1 describes MS-105-3 with 10 to 15 AT.

MS-105-3



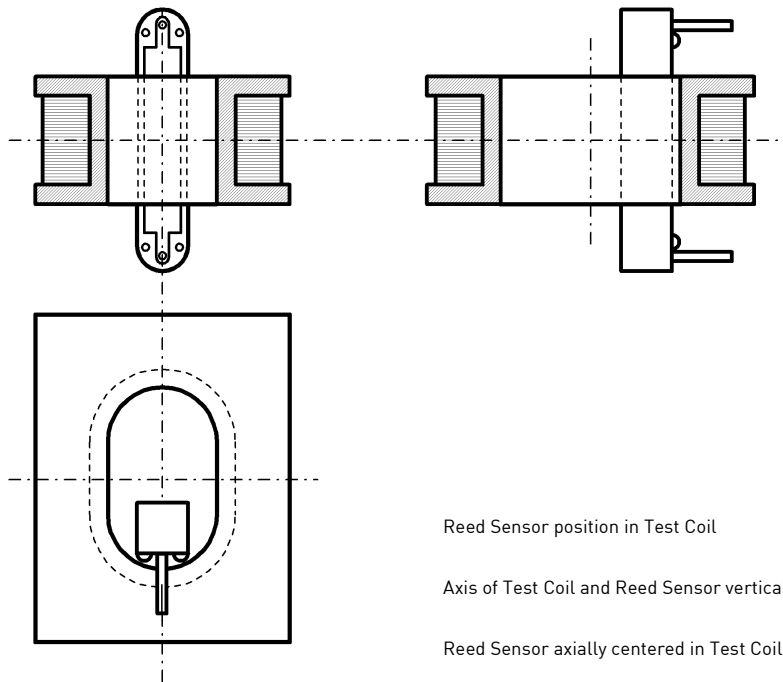
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Material Information

	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-105-3-1
2 =	MS-105-3-2

Remarks

When mounted onto ferromagnetic parts switching distance of MS-105-3 may reduce.
Electromagnetical influences and magnetic fields may change the switching behaviour of the sensor.