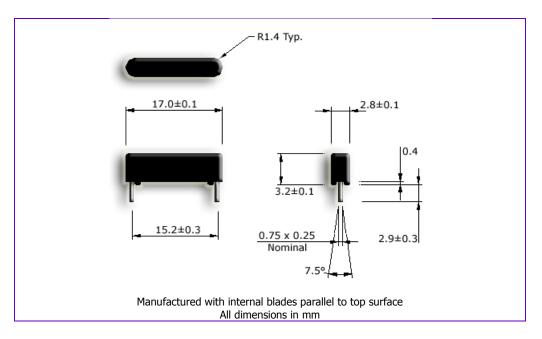
### **MS-106 Reduced-miniature Reed Sensor**

## 15.24 mm PCB mounting pitch



- Does not require power for operation
- Normally open (NO) form A contact
- Omni-polar device; actuates with either pole of magnet
- Lead (Pb) free and RoHS compliant

#### Applications

This reed sensor is suitable for use in the following applications and many others: telephone hook switches, detergent level sensing in washing machines, electric tooth brushes, sewing machine pedals, fluid tank cap sensing, two wheeler side stand, fluid level sensing, automobiles with electronic keys, survival rafts and ELTs, hands free kits, fuel pumps, pedometers...

#### Specification

	Α
W / VA	10.0
Α	0.5
Α	0.75
$V_{DC}$	100
$V_{DC}$	150
mΩ	150
°C	-40 to +100
g	30
g	20
	A A V <sub>DC</sub> V <sub>DC</sub> mΩ

### **Ordering Code**

MS-106-(Operate AT Code)

OAT Code	
1	10 - 15
2	15 - 20
3	20 - 25

Operate AT bands indicated above are for unmodified reed switch Cropping the leads will increase OAT and RAT

#### **Example**

MS-106-1 denotes 10-15 operate AT.

Due to continual improvement, specifications are subject to change without notice

www.reed-sensor.com

25 December 2006



## **MS-106 Reduced-miniature Reed Sensor**

# **Actuation Distances**

Operate and release distances for the MS-106 reed sensor in the three standard AT bands when actuated (as shown in the sketches) with NdFeB standard magnets is shown below. All distances given are in mm with tolerances of ±0.5mm. Distances given will vary if the reed sensor leads are cropped after soldering. Although some of the AT band / magnet combinations will produce similar actuating distances, selecting the right AT band and magnet for an application is important and can be done by going through our AT band FAQ and our magnet selection guide.

**MS-106-1 (10-15 AT)** 

<u>— 110 100 1 (10 15 A</u>	• /			
Actuation Sketch	Magnet	Dimensions	Operate Distance	Release Distance
	NDR-T	4.0 x 1.5 x 1.5	2.5 - 3.0	3.0 - 3.5
	NDC-T	Ø2.0 x 4.0	3.0 - 4.0	4.0 - 4.5
	NDR-S	6.0 x 2.5 x 2.5	7.0 - 8.5	8.0 - 9.5
N/s 📥	NDC-S	Ø3.0 x 7.0	8.5 - 10.5	10.0 - 12.0
	NDR-M	8.0 x 3.0 x 3.0	10.0 - 12.0	11.5 - 13.5
<b></b>	NDC-M	Ø4.0 x 10.0	11.5 - 14.5	13.5 - 16.5
	NDR-L	19.0 x 4.0 x 4.0	17.5 - 21.5	20.5 - 24.5
	NDC-L	Ø8.0 x 15.0	27.0 - 32.5	32.0 - 37.0

**MS-106-2 (15-20 AT)** 

- 115 100 2 (15 20 A	• /			
Actuation Sketch	Magnet	Dimensions	Operate Distance	Release Distance
N/S <b></b> ■	NDR-T	4.0 x 1.5 x 1.5	1.5 - 2.5	2.5 - 3.0
	NDC-T	Ø2.0 x 4.0	2.5 - 3.0	3.5 - 4.0
	NDR-S	6.0 x 2.5 x 2.5	6.0 - 7.0	7.5 - 9.0
	NDC-S	Ø3.0 x 7.0	7.0 - 8.5	9.0 - 10.5
	NDR-M	8.0 x 3.0 x 3.0	8.5 - 10.0	10.5 - 12.5
	NDC-M	Ø4.0 x 10.0	10.0 - 11.5	12.5 - 14.5
	NDR-L	19.0 x 4.0 x 4.0	15.0 - 18.0	19.0 - 21.5
	NDC-L	Ø8.0 x 15.0	24.0 - 28.0	29.0 - 33.0

**MS-106-3 (20-25 AT)** 

Actuation Sketch	Magnet	Dimensions	Operate Distance	Release Distance
N/S	NDR-T	4.0 x 1.5 x 1.5	1.0 - 1.5	2.0 - 2.5
	NDC-T	Ø2.0 x 4.0	2.0 - 2.5	3.0 - 3.5
	NDR-S	6.0 x 2.5 x 2.5	5.0 - 5.5	7.0 - 7.5
	NDC-S	Ø3.0 x 7.0	6.5 - 7.0	8.5 - 9.0
	NDR-M	8.0 x 3.0 x 3.0	8.0 - 8.5	10.5 - 11.0
<u> </u>	NDC-M	Ø4.0 x 10.0	9.0 - 10.0	12.0 - 12.5
	NDR-L	19.0 x 4.0 x 4.0	14.0 - 16.0	18.0 - 19.0
	NDC-L	Ø8.0 x 15.0	23.0 - 24.0	28.0 - 29.0

Due to continual improvement, specifications are subject to change without notice

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