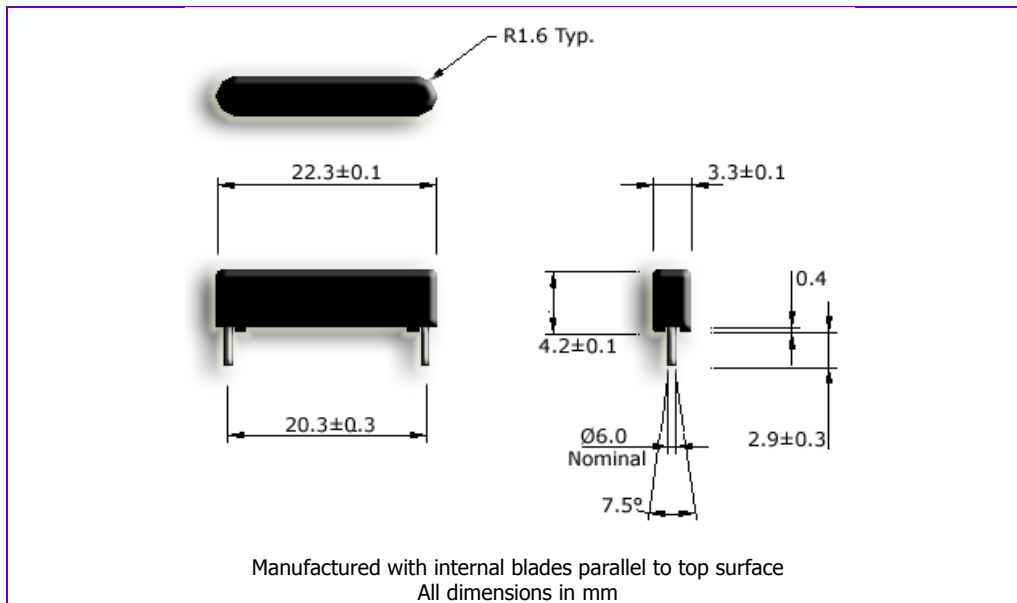


## MS-108 Standard size Reed Sensor

20.32 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: microphones, radio transmitters, copier and scanner doors, coffee machines, rowing electronics, power switches in explosive areas...

### Specification

Contact Form		A
Contact Rating (max)	W / VA	10
Switching Current (max)	A	0.5
Carry Current (max)	A	1.5
Switching Voltage (max)	V <sub>DC</sub>	180
Breakdown Voltage (min)	V <sub>DC</sub>	200
Initial Contact Resistance (max)	mΩ	150
Operating Temperature	°C	-40 to +100
Shock Resistance (½Sin wave for 11ms)	g	50
Vibration Resistance (10-2000Hz)	g	20

### Ordering Code

MS-108-(Operate AT Code)

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

Cropping the leads will increase OAT and RAT

### Example

MS-108-2 denotes 15-20 operate AT.

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

[www.reed-sensor.com](http://www.reed-sensor.com)

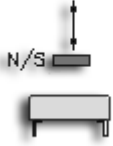
25 December 2006

## MS-108 Standard size Reed Sensor

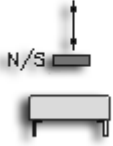
### Actuation Distances

Operate and release distances for the MS-108 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  $\pm 0.5\text{mm}$ . 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.

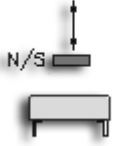
#### MS-108-1 (10-15 AT)

Actuation Sketch	Magnet	Dimensions	Operate Distance	Release Distance
	NDR-T	4.0 x 1.5 x 1.5	2.0 - 3.0	3.0 - 3.5
	NDC-T	Ø2.0 x 4.0	3.5 - 4.5	5.0 - 5.5
	NDR-S	6.0 x 2.5 x 2.5	7.5 - 10.0	10.0 - 11.5
	NDC-S	Ø3.0 x 7.0	9.5 - 11.5	12.0 - 13.0
	NDR-M	8.0 x 3.0 x 3.0	11.5 - 14.5	15.0 - 16.0
	NDC-M	Ø4.0 x 10.0	13.5 - 17.0	17.5 - 19.0
	NDR-L	19.0 x 4.0 x 4.0	21.5 - 25.5	26.5 - 28.5
	NDC-L	Ø8.0 x 15.0	32.0 - 38.0	41.0 - 42.0

#### MS-108-2 (15-20 AT)

Actuation Sketch	Magnet	Dimensions	Operate Distance	Release Distance
	NDR-T	4.0 x 1.5 x 1.5	1.5 - 2.0	2.5 - 3.0
	NDC-T	Ø2.0 x 4.0	2.5 - 3.5	4.5 - 5.0
	NDR-S	6.0 x 2.5 x 2.5	6.5 - 7.5	9.5 - 10.0
	NDC-S	Ø3.0 x 7.0	8.0 - 9.5	11.0 - 12.0
	NDR-M	8.0 x 3.0 x 3.0	10.0 - 11.5	13.5 - 15.0
	NDC-M	Ø4.0 x 10.0	12.0 - 13.5	15.5 - 17.5
	NDR-L	19.0 x 4.0 x 4.0	18.0 - 21.5	24.5 - 26.5
	NDC-L	Ø8.0 x 15.0	28.0 - 32.0	37.0 - 41.0

#### MS-108-3 (20-25 AT)

Actuation Sketch	Magnet	Dimensions	Operate Distance	Release Distance
	NDR-T	4.0 x 1.5 x 1.5	0.5 - 1.5	2.0 - 2.5
	NDC-T	Ø2.0 x 4.0	1.5 - 2.5	3.5 - 4.5
	NDR-S	6.0 x 2.5 x 2.5	5.5 - 6.5	8.5 - 9.5
	NDC-S	Ø3.0 x 7.0	7.0 - 8.0	10.5 - 11.5
	NDR-M	8.0 x 3.0 x 3.0	9.0 - 10.0	12.5 - 13.5
	NDC-M	Ø4.0 x 10.0	10.0 - 12.0	14.0 - 15.5
	NDR-L	19.0 x 4.0 x 4.0	16.0 - 18.0	22.5 - 24.5
	NDC-L	Ø8.0 x 15.0	25.0 - 28.0	34.0 - 37.0

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30 September 2006