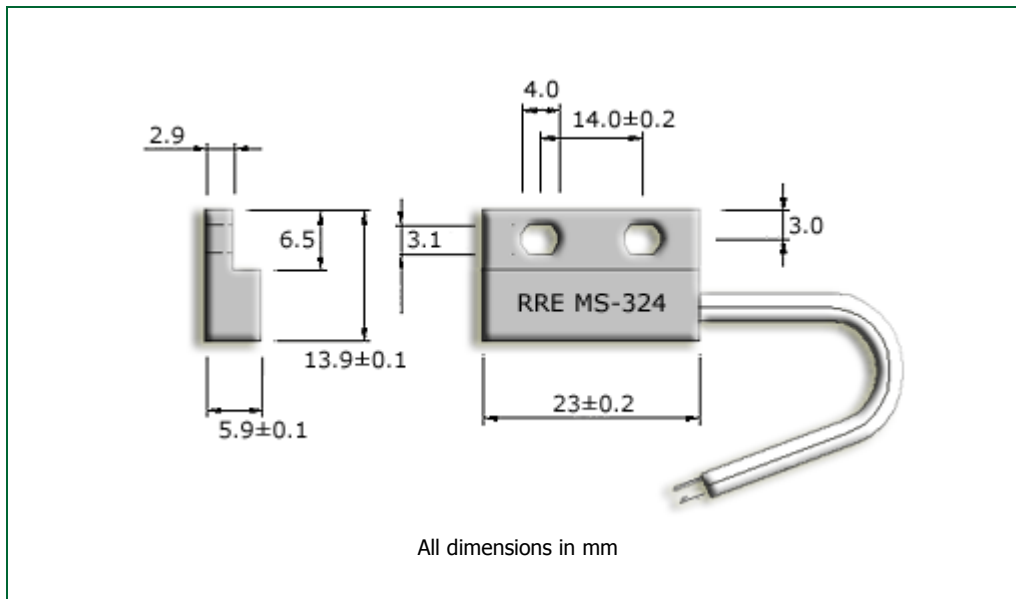


MS-324 Flat pack Magnet Sensor

Miniature, 4.0 mm mounting slot, 10 W



- ◆ Does not require power for operation
- ◆ Omni-polar device; actuates with either pole of magnet
- ◆ Normally open (NO) contact, others available on request
- ◆ Three magnetic sensitivity bands
- ◆ Lead (Pb) free and RoHS compliant

🔧 Applications

This magnet sensor is suitable for use in the following applications and many others: coil winder tension sensing, fluid and electricity meters, coffee machines, dishwashers, fluid level sensing, two wheeler side stand, accidental airbag deployment prevention, door and window security, tamper proofing...

📊 Specification

Contact Form		A
Contact Rating (max)	W / VA	10.0
Switching Current (max)	A	0.5
Carry Current (max)	A	1.5
Switching Voltage (max)	V _{DC}	180
Breakdown Voltage (min)	V _{DC}	200
Initial Contact Resistance (max)	mΩ	150
Operating Temperature	°C	-40 to +70
Shock Resistance (1/2Sin wave for 11ms)	g	50
Vibration Resistance (10-2000Hz)	g	20

🏷️ Ordering Code

MS-324-(Operate AT Code)-(Cable length in mm)-(Lead Code)

OAT Code		Lead Code	
1	10 – 15	S	Stripped to 5mm
2	15 – 20	T	Stripped to 5mm and Tinned
3	20 – 25	M	Molex Connector

🔧 Example

MS-324-1-500-M denotes 10-15 Operate AT, with 500 mm cable length and Molex connectors.

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

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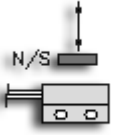
22 December 2006

MS-324 Flat pack Magnet Sensor

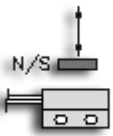
Actuation Distances

Operate and release distances for the MS-324 miniature Flat pack sensor in 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 $\pm 0.5\text{mm}$. 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.

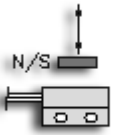
MS-324-1 (10-15 AT)

Actuation Sketch	Magnet	Dimensions	Operate Distance	Release Distance
	NDR-T	4.0 x 1.5 x 1.5	1.0 - 2.0	2.0 - 3.5
	NDC-T	$\varnothing 2.0 \times 4.0$	1.5 - 3.0	3.0 - 4.0
	NDR-S	6.0 x 2.5 x 2.5	6.0 - 8.0	8.0 - 10.0
	NDC-S	$\varnothing 3.0 \times 7.0$	7.5 - 9.5	9.5 - 11.5
	NDR-M	8.0 x 3.0 x 3.0	9.5 - 11.5	12.0 - 13.5
	NDC-M	$\varnothing 4.0 \times 10.0$	12.0 - 16.0	15.0 - 18.0
	NDR-L	19.0 x 4.0 x 4.0	18.0 - 22.0	22.0 - 24.0
	NDC-L	$\varnothing 8.0 \times 15.0$	27.0 - 33.0	32.0 - 36.0

MS-324-2 (15-20 AT)

Actuation Sketch	Magnet	Dimensions	Operate Distance	Release Distance
	NDR-T	4.0 x 1.5 x 1.5	0.5 - 1.0	1.0 - 2.0
	NDC-T	$\varnothing 2.0 \times 4.0$	1.0 - 1.5	2.5 - 3.0
	NDR-S	6.0 x 2.5 x 2.5	4.0 - 6.0	7.0 - 8.0
	NDC-S	$\varnothing 3.0 \times 7.0$	6.0 - 7.5	9.0 - 10.0
	NDR-M	8.0 x 3.0 x 3.0	8.0 - 9.5	11.0 - 12.0
	NDC-M	$\varnothing 4.0 \times 10.0$	11.0 - 12.0	14.0 - 15.0
	NDR-L	19.0 x 4.0 x 4.0	16.0 - 18.0	21.0 - 22.0
	NDC-L	$\varnothing 8.0 \times 15.0$	24.0 - 27.0	31.0 - 32.0

MS-324-3 (20-25 AT)

Actuation Sketch	Magnet	Dimensions	Operate Distance	Release Distance
	NDR-T	4.0 x 1.5 x 1.5	N/A	N/A
	NDC-T	$\varnothing 2.0 \times 4.0$	0.5 - 1.0	2.0 - 2.5
	NDR-S	6.0 x 2.5 x 2.5	4.0 - 5.0	6.5 - 7.5
	NDC-S	$\varnothing 3.0 \times 7.0$	6.0 - 6.5	6.5 - 9.0
	NDR-M	8.0 x 3.0 x 3.0	7.0 - 8.0	10.0 - 11.0
	NDC-M	$\varnothing 4.0 \times 10.0$	10.0 - 11.0	13.0 - 14.0
	NDR-L	19.0 x 4.0 x 4.0	13.5 - 16.0	19.0 - 21.0
	NDC-L	$\varnothing 8.0 \times 15.0$	22.0 - 24.0	29.0 - 31.0

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20 January 2009