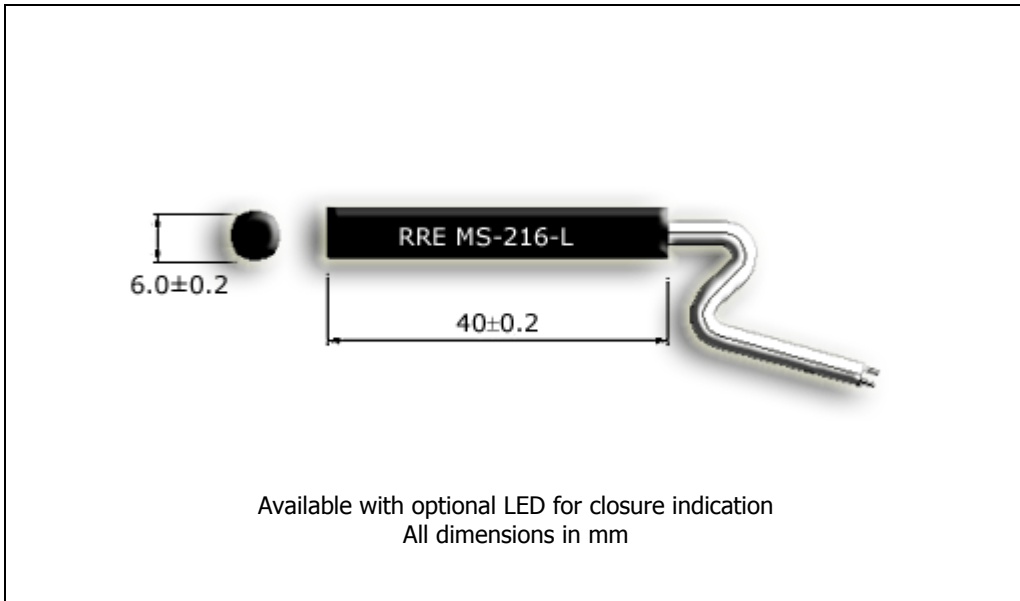


MS-216-L Cylindrical Magnet Sensor

Standard Size, 6.0 mm Diameter x 40.0 mm, 30 W, Line Voltage



- ◆ 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
- ◆ Contact rating of up to 60W
- ◆ Lead (Pb) free and RoHS compliant

🔧 Applications

This magnet sensor is suitable for use in the following applications and many others: door sensing in domestic goods, automobile ABS, fork lifts, adjustable chairs and beds...

📊 Specification

Contact Form		A
Contact Rating (max)	W / VA	30
Switching Current (max)	A	0.5
Carry Current (max)	A	2.5
Switching Voltage (max)	V _{DC/AC}	230
Breakdown Voltage (min)	V _{DC}	350
Initial Contact Resistance (max)	mΩ	200
Operating Temperature	°C	-40 to +70
Shock Resistance (½Sin wave for 11ms)	g	150
Vibration Resistance (10-2000Hz)	g	20

📋 Ordering Code

MS-216-L-(Operate AT Code)-(Cable length in mm)-(Lead Code)

OAT Code		Lead Code	
3	20 – 25	S	Stripped to 5mm
4	25 – 30	T	Stripped to 5mm and Tinned
5	30 - 35	M	Molex Connector

🔧 Example

MS-216-L-3-500-M denotes 20-25 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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15 March 2008

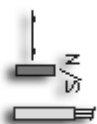
MS-216-L Cylindrical Magnet Sensor

Actuation Distances

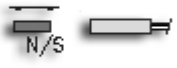
Operate and release distances for the MS-216-L large cylindrical sensor, in two AT bands when actuated (as shown in the sketches) with NdFeB standard magnets is shown below. All distances given are in mm with tolerances of ± 0.5 mm. Although some of the AT band / magnet combinations will produce similar 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.

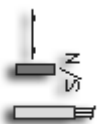
MS-216-L-3 (20-25 AT)

Actuation Sketch	Magnet	Dimensions	Operate Distance	Release Distance
	NDR-T	4.0 x 1.5 x 1.5	N/A	N/A
	NDC-T	$\varnothing 2.0$ x 4.0	N/A	N/A
	NDR-S	6.0 x 2.5 x 2.5	N/A	N/A
	NDC-S	$\varnothing 3.0$ x 7.0	N/A	N/A
	NDR-M	8.0 x 3.0 x 3.0	N/A	N/A
	NDC-M	$\varnothing 4.0$ x 10.0	3.0 – 5.0	12.0 – 13.0
	NDR-L	19.0 x 4.0 x 4.0	8.0 – 11.0	19.0 – 20.0
	NDC-L	$\varnothing 8.0$ x 15.0	20.0 – 23.0	33.0 – 34.0

Actuation Sketch	Magnet	Dimensions	Operate Distance	Release Distance
	NDR-T	4.0 x 1.5 x 1.5	N/A	N/A
	NDC-T	$\varnothing 2.0$ x 4.0	N/A	N/A
	NDR-S	6.0 x 2.5 x 2.5	2.5 – 4.5	7.0 – 8.0
	NDC-S	$\varnothing 3.0$ x 7.0	5.0 – 7.0	10.0 – 11.0
	NDR-M	8.0 x 3.0 x 3.0	8.0 – 9.0	13.0 – 14.0
	NDC-M	$\varnothing 4.0$ x 10.0	11.0 – 12.5	17.0 – 18.0
	NDR-L	19.0 x 4.0 x 4.0	18.5 – 19.5	26.0 – 27.0
	NDC-L	$\varnothing 8.0$ x 15.0	27.0 – 30.0	39.0 – 40.0

MS-216-L-4 (25-30 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	$\varnothing 2.0$ x 4.0	N/A	N/A
	NDR-S	6.0 x 2.5 x 2.5	N/A	N/A
	NDC-S	$\varnothing 3.0$ x 7.0	N/A	N/A
	NDR-M	8.0 x 3.0 x 3.0	N/A	N/A
	NDC-M	$\varnothing 4.0$ x 10.0	1.0 – 3.0	12.0 – 13.0
	NDR-L	19.0 x 4.0 x 4.0	5.5 – 8.0	18.0 – 19.0
	NDC-L	$\varnothing 8.0$ x 15.0	17.0 – 20.0	32.0 – 34.0

Actuation Sketch	Magnet	Dimensions	Operate Distance	Release Distance
	NDR-T	4.0 x 1.5 x 1.5	N/A	N/A
	NDC-T	$\varnothing 2.0$ x 4.0	N/A	N/A
	NDR-S	6.0 x 2.5 x 2.5	N/A	N/A
	NDC-S	$\varnothing 3.0$ x 7.0	3.5 – 5.0	10.0 – 11.0
	NDR-M	8.0 x 3.0 x 3.0	5.0 – 8.0	12.0 – 14.0
	NDC-M	$\varnothing 4.0$ x 10.0	9.0 – 11.0	17.0 – 18.0
	NDR-L	19.0 x 4.0 x 4.0	14.0 – 18.5	24.0 – 27.0
	NDC-L	$\varnothing 8.0$ x 15.0	23.0 – 27.0	37.0 – 40.0

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1 February 2008