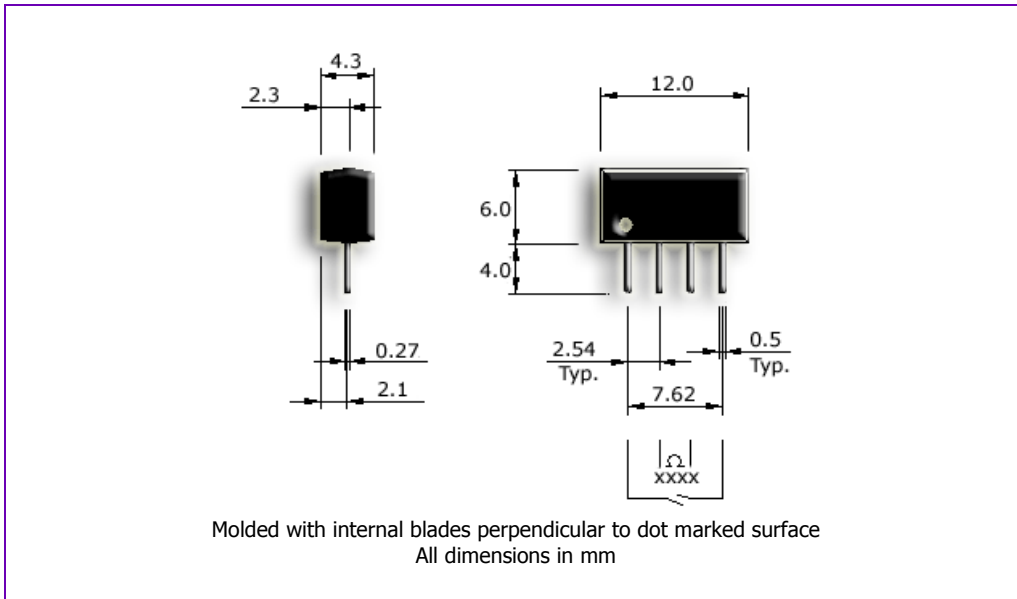


MK Reed Sensor with integrated resistor

2.54 mm pitch SIP Package



- ◆ Does not require power for operation
- ◆ Normally open (NO) form A contact
- ◆ Omni-polar device; actuates with either pole of magnet
- ◆ Various wattages and resistor values
- ◆ Ideal for level sensing applications
- ◆ Lead (Pb) free and RoHS compliant

Applications

This reed sensor is suitable for use in the following applications and many others: fluid level sensing, contact protection, resistance matrixes...

Specification

Contact Form		A
Contact Rating (max)	W / VA	10
Switching Current (max)	A	0.5
Carry Current (max)	A	0.75
Switching Voltage (max)	V _{DC}	100
Breakdown Voltage (min)	V _{DC}	150
Initial Contact Resistance (max)	mΩ	150
Operating Temperature	°C	-40 to +140
Shock Resistance (½Sin wave for 11ms)	g	30
Vibration Resistance (10-2000Hz)	g	20

Ordering Code

MK-(Resistor Value)-(Operate AT Code)

OAT Code	
1	10 – 15
2	15 – 20

Resistor value in ordering code refers to standard integrated resistor (1/8 W, 1% tolerance)

Example

MK-1-0180 denotes 10-15 operate AT with an integrated 180Ω resistor.

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

www.reed-sensor.com

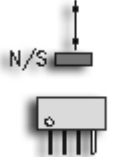
25 December 2006

MK Reed Sensor with integrated resistor

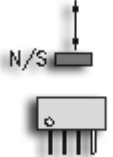
Actuation Distances

Operate and release distances for the MK-xxxx reed sensor in the two 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 ± 0.5 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.

MK-xxxx-1 (10-15 AT)

Actuation Sketch	Magnet	Dimensions	Operate Distance	Release Distance
	NDR-T	4.0 x 1.5 x 1.5	1.0 - 2.5	1.5 - 3.0
	NDC-T	Ø2.0 x 4.0	1.5 - 3.0	2.0 - 3.5
	NDR-S	6.0 x 2.5 x 2.5	4.0 - 7.0	5.0 - 7.5
	NDC-S	Ø3.0 x 7.0	5.5 - 8.0	6.0 - 8.5
	NDR-M	8.0 x 3.0 x 3.0	7.0 - 10.0	7.5 - 10.5
	NDC-M	Ø4.0 x 10.0	8.0 - 11.5	8.5 - 12.0
	NDR-L	19.0 x 4.0 x 4.0	12.0 - 17.0	13.0 - 18.0
	NDC-L	Ø8.0 x 15.0	19.0 - 25.0	20.0 - 26.0

MK-xxxx-2 (15-20 AT)

Actuation Sketch	Magnet	Dimensions	Operate Distance	Release Distance
	NDR-T	4.0 x 1.5 x 1.5	0.0 - 1.0	1.0 - 1.5
	NDC-T	Ø2.0 x 4.0	0.0 - 1.5	1.5 - 2.0
	NDR-S	6.0 x 2.5 x 2.5	3.5 - 4.5	4.0 - 5.5
	NDC-S	Ø3.0 x 7.0	4.5 - 5.5	5.0 - 6.5
	NDR-M	8.0 x 3.0 x 3.0	5.5 - 7.0	6.5 - 7.5
	NDC-M	Ø4.0 x 10.0	6.5 - 8.0	7.5 - 8.5
	NDR-L	19.0 x 4.0 x 4.0	10.0 - 12.0	12.0 - 13.0
	NDC-L	Ø8.0 x 15.0	16.5 - 19.0	18.0 - 20.0

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

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