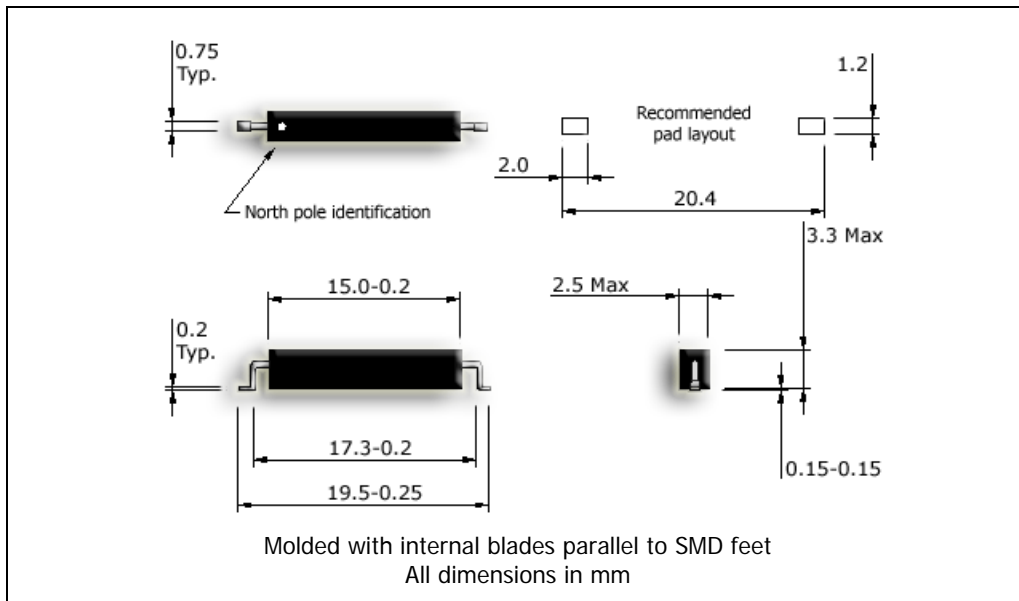


R2E-S Latching SMD Reed Sensor

SMD Package, Form E, Latching



- ◆ Does not require power for operation
- ◆ Bi-stable, form E contact remembers state
- ◆ Polarity sensitive
- ◆ Molded with internal blades parallel to SMD feet
- ◆ Packed in tape and reels conforming to IEC-60286-3 norms
- ◆ Lead (Pb) free and RoHS compliant

🔧 Applications

This reed sensor is suitable for use in the following applications and many others: floor detection for elevators, lifts and hoists, level sensors...

📊 Specification

Contact Form		E
Contact Rating (max)	W / VA	10
Switching Current (max)	A	0.5
Carry Current (max)	A	1.0
Switching Voltage (max)	V _{DC}	100
Breakdown Voltage (min)	V _{DC}	150
Initial Contact Resistance (max)	mΩ	150
Operating Temperature	°C	-20 to +100
Shock Resistance (½Sin wave for 11ms)	g	30
Vibration Resistance (10-2000Hz)	g	20

📦 Ordering Code

R2E-S-(Operate AT Code)

OAT Code	
1	10 - 15

Please contact us for re-closure values

🔧 Example

R2E-S-1 denotes 10-15 operate and release AT.

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

www.reed-sensor.com


25 December 2006

R2E-S Latching SMD Reed Sensor

Actuation Distances

Actuation distances (latch and un-latch) for the R2E-S bi-stable SMD reed sensor when actuated (as shown in the sketch) 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.

R2E-S-1 (10-15 AT)

Actuation Sketch	Magnet	Dimensions	Latch/Un-Latch Distance
	NDR-T	4.0 x 1.5 x 1.5	5.0 - 7.0
	NDC-T	Ø2.0 x 4.0	6.0 - 8.0
	NDR-S	6.0 x 2.5 x 2.5	12.0 - 16.0
	NDC-S	Ø3.0 x 7.0	14.0 - 18.0
	NDR-M	8.0 x 3.0 x 3.0	17.0 - 20.0
	NDC-M	Ø4.0 x 10.0	19.0 - 22.0
	NDR-L	19.0 x 4.0 x 4.0	29.0 - 33.0
	NDC-L	Ø8.0 x 15.0	42.0 - 47.0

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30 September 2006