



SENSOR SWITCH

Item.#	RBS05 Series	Description	TILT SWITCH	Version	V97.0
Page	1 of 4		Date	Sep	. 30, 2008

APPLICATIONS

1. 45° Tilt Detecting within a 360° radius: Home Appliance Tilt Off function

FEATURES

- 1. Small size & compact space.
- 2. Tip-over switch.
- 3. Balls are gold plated to enhance the life.
- 4. All plastic material subject to industrial purpose meets with UL94V-0 grade; high temperature and fireproof function.
- 5. Suitable to IC trigger signal.
- 6. Complete replacement of mercury switch and meet with environmental protection.

PATENTS

1. TAIWAN Patent NO. 226086



4F-3, No. 171, Sec. 2, Chang An E. Rd., Taipei, Taiwan, R. O. C. TEL: 886-2-27111093~5 FAX: 886-2-27310902 E-mail: jinzon@ms2.hinet.net Http://www.jinzon.com.tw/

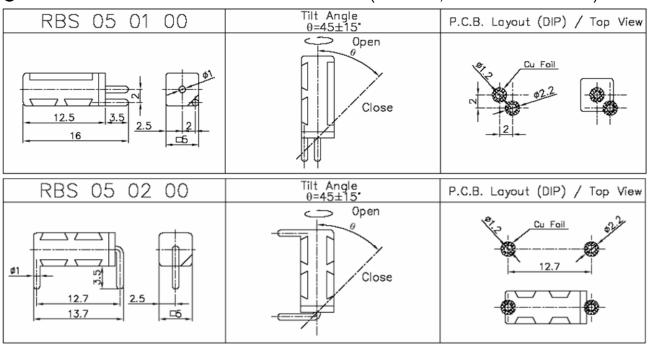




SENSOR SWITCH

Item.#	RBS05 Series	Description	TILT SWITCH	Version	V97.0
Page	2 of 4		Date	Sep.	. 30, 2008

● DIMENSIONS / OPERATION / P.C.B. LAYOUT (Unit: mm, Tolerance: ±0.25mm)



ELECTRICAL CHARACTERISTICS

1.	Contact Rating	25mA · 24VDC
2.	Contact Resistance	100Ω max.
3.	Differential Angle	Refer to the drawing
4.	Switching type	Normal Open (NO)
5.	Insulation Resistance	1000MΩ min. At 100 VDC
6.	Dielectric Strength	500 VDC min. for 1 minute
7.	Capacitance	5pF max

4F-3, No. 171, Sec. 2, Chang An E. Rd., Taipei, Taiwan, R. O. C. TEL: 886-2-27111093~5 FAX: 886-2-27310902

E-mail: jinzon@ms2.hinet.net Http://www.jinzon.com.tw/





SENSOR SWITCH

Item.#	RBS05 Series	Description	TILT SWITCH	Version	V97.0
Page	3 of 4		Date	Sep	. 30, 2008

MECHANICAL CHARACTERISTICS

1.	Temperature Range	Operating: -25°C to +85°C		
		Storage: -40°C to +85°C		
2.	Pull Force of Terminal	500 gf for 1 minute		
3.	Operation Life	100,000 Cycles		
4.	Conductive Rate (Switch-on Rate)	min. over 90%		
5.	Humidity	95% RH, 40° C for 96 hrs.		
6.	Solder ability	After flux 245±5°C for 5±0.5 seconds 95%		
		coverage		

BILL OF MATERIAL

1.	Housing	ZINC Alloy, Tin Plated over Nickel
2.	Cover	Class-Fiber Polyamide, UL 94-0
3.	Terminal	Copper Alloy, Gold Plated over Nickel
4.	Ball	Copper Alloy, Gold Plated over Nickel
5.	Steel Ball	Stainless Steel

PACKAGE

	Part Number	Package	Quantity	Total	Size
1.	RBS050100 RBS050200	PE Bag	500 pcs	500 pcs	12.7 x 17.8 (cm)
		Inner Box	10 Bags	5,000 pcs	36 x 20 x 9 (cm)
		Carton	3 Boxes	15,000 pcs	36 x 28 x 23 (cm)

^{*} Minimum Order Quantity: One Bag

4F-3, No. 171, Sec. 2, Chang An E. Rd., Taipei, Taiwan, R. O. C.

TEL: 886-2-27111093~5 FAX: 886-2-27310902 E-mail: jinzon@ms2.hinet.net Http://www.jinzon.com.tw/





SENSOR SWITCH

Item.#	RBS05 Series	Description	TILT SWITCH	Version	V97.0
Page	4 of 4		Date	Sep	. 30, 2008

NOTE

- 1. Suggestion for Application: Application in occasions that require vibration functions, adding design of "ON DELAY" is recommended. For great vibration, Optical type products are recommended.
- 2. Suggestion Contact Rating: 5 mA.
- 3. Conductive Rate: To test the conductivity (Switch-on Rate) of one switch individually for 100 times, if the switch conductive 95 times, we call the "conductive rate" is 95%.
- 4. Switches will provide pulse at tilt angle but the signal will not be a continued state after tilt angle.
- For the continued product improvement as one of the company policy, specifications
 may change or update without notice. The latest information can be obtained
 through our sales offices. Normally, all products are supplied under our standard
 conditions.

PRECAUTIONS FOR USE

- 1. The product is used mainly in electronic devices such as automotive devices, visual devices, home electrical appliances, information devices and communication settings. If the products is intended to be used for other endurance equipments requiring higher safety and reliability such as life support system, space and aviations devices, disaster and safety system, it's necessary to make verification of conformity or contact us for the details before using.
- 2. Don't try to clean the switch with a solvent or similar substance after the soldering process.
- 3. The switch might be damaged if using the water-soluble flux.
- 4. Don't use the switch in the environment with high humidity or other bedewing possibility, as it may cause leaking among the terminals.
- 5. It might catch fire if the rating exceeds the specifications. Never use the switch beyond the rating.