

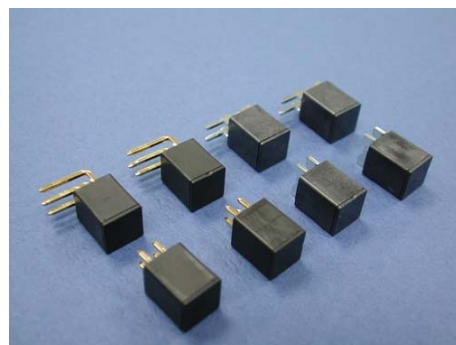


## SENSOR SWITCH

Item.#	RBS07 Series	Description	TILT SWITCH	Version	V97.0
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● APPLICATIONS

1. 45° Tilt Detecting within a 360° radius: Xbox 360, Exsiccaters, Home Appliance Tilt Off function
2. Up-Side Down Detecting



● FEATURES

1. Small size & compact space.
2. Housing made of high insulation plastic material, free from electric conduction and rust problem.
3. Terminal and 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. 184124
2. U.S.A. Patent NO. US 6,518,523 B1
3. CHINA Patent NO. ZL 01 2 34708.6



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

RBS 07 03 00	Tilt Angle $\theta = 45 \pm 15^\circ$	P.C.B. Layout (DIP) / Top View

RBS 07 03 10	Tilt Angle $\theta = 45 \pm 15^\circ$	P.C.B. Layout (DIP) / Top View

RBS 07 04 00	Tilt Angle $\theta = 45 \pm 15^\circ$	P.C.B. Layout (DIP) / Top View



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RBS 07 04 10	Tilt Angle $\theta=45\pm 15^\circ$	P.C.B. Layout (DIP) / Top View

RBS 07 05 00	Tilt Angle $\theta=45\pm 15^\circ$	P.C.B. Layout (SMT) / Top View

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RBS 07 06 00	Tilt Angle $\theta=45\pm 15^\circ$	P.C.B. Layout (DIP) / Top View



## SENSOR SWITCH

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## ● ELECTRICAL CHARACTERISTICS

1.	Contact Rating	25mA · 24VDC
2.	Contact Resistance	10Ω max.
3.	Differential Angle	Refer to the drawing
4.	Switching type	Normal Close (NC)
5.	Insulation Resistance	1000MΩ min. At 100 VDC
6.	Dielectric Strength	500 VDC min. for 1 minute
7.	Capacitance	5pF max

## ● 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 260±5°C for 5±0.5 seconds 95% coverage
7.	Reflow Soldering Heat for SMT type (For RBS070500)	Reflow zone 260±5°C for 20 seconds max.

## ● BILL OF MATERIAL

1.	Housing	Class-Fiber Polyamide, UL 94-0 (RBS070300 · RBS070310 · RBS070400 · RBS070410) Glass-Fiber Liquid crystal polymer, UL 94V-0 (RBS070500 · RBS070600)
2.	Cover	Class-Fiber Polyamide, UL 94-0 (RBS070300 · RBS070310 · RBS070400 · RBS070410) Glass-Fiber Liquid crystal polymer, UL 94V-0 (RBS070500 · RBS070600)
3.	Terminal	Copper Alloy, Gold Plated over Nickel
4.	Ball	Copper Alloy, Gold Plated over Nickel



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## ● PACKAGE

	Part Number	Package	Quantity	Total	Size
1.	RBS0703	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)
2.	RBS0704	PE Bag	500 pcs	500 pcs	12.7 x 17.8 (cm)
	RBS0705	Inner Box	8 Bags	4,000 pcs	36 x 20 x 9 (cm)
	RBS0706	Carton	3 Boxes	12,000 pcs	36 x 28 x 23 (cm)
3.	RBS0705	Reel	750pcs	750pcs	30 x 30 (cm)
		Inner Box	2 Reels	1,500 pcs	36 x 34 x 7 (cm)
		Carton(1)	4 Boxes	6,000 pcs	37 x 36 x 31 (cm)
		Carton(2)	10 Boxes	15,000 pcs	70 x 36 x 38 (cm)

\* Minimum Order Quantity: One Bag / One Reel

## ● 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. 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

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/

JIN ZON ENTERPRISE CO., LTD.

駿融企業有限公司



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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.