JIN ZON ENTERPRISE CO., LTD. 駿融企業有限公司





SENSOR SWITCH

Item.#	RBS17 Series	Description	TILT SWITCH	Version	V97.0
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APPLICATIONS

1. One way 15° Tilt Detecting

FEATURES

- 1. Small size & compact space.
- 2. Housing made of high insulation plastic material, free from electric conduction and rust problem.
- 3. Four terminals for ball contact, making the output signal more stable.
- 4. Terminals and balls are gold plated to enhance the life.
- 5. All plastic material subject to industrial purpose meets with UL94V-0 grade; high temperature and fireproof function.
- 6. Suitable to IC trigger signal.
- 7. Complete replacement of mercury switch and meet with environmental protection.

PATENTS

- 1. Taiwan Patent No. I 297159
- 2. Taiwan Patent No. I 297160
- 3. U.S.A. Patent No. US 7,319,200 B2
- 4. U.S.A. Patent No. US 7,323,649 B2

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/

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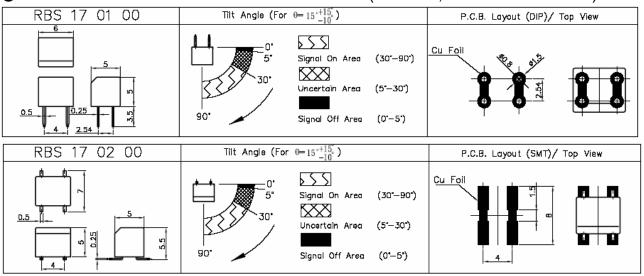




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● DIMENSIONS / OPERATION / P.C.B. LAYOUT (Unit: mm, Tolerance: ±0.25mm)



ELECTRICAL CHARACTERISTICS

1.	Contact Rating	25mA · 24VDC
2.	Contact Resistance	10Ω max.
3.	Differential Angle	Refer to the drawing
4.	Switching type	Normal Open (NO)
5.	Insulation Resistance	10MΩ min. At 100 VDC
6.	Dielectric Strength	500 VDC min. for 1 minute
7.	Capacitance	5pF max

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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		

BILL OF MATERIAL

1.	Housing	Glass-Fiber Liquid crystal polymer, UL 94V-0
2.	Base	Glass-Fiber Liquid crystal polymer, UL 94V-0
3.	Terminal	Copper Alloy, Gold Plated over Nickel
4.	Ball	Copper Alloy, Gold Plated over Nickel

PACKAGE

	Part Number	Package	Quantity	Total	Size
		IC tube	84 pcs	84 pcs	52.5 x 0.7 x 1.15 (cm)
1.	1. RBS170100	Inner Box	162 tubes	16,632 pcs	54 x 13 x 13 (cm)
		Carton	4 Boxes	66,528 pcs	55 x 29 x 29 (cm)
		Reel	1,000 pcs	1,000 pcs	Diameter=30;
					Width= 2.1 (cm)
2.	RBS170200T	Inner Box	2 Reels	2,000 pcs	36 x 34 x 7 (cm)
		Carton(1)	4 Boxes	8,000 pcs	37 x 36 x 31 (cm)
		Carton(2)	10 Boxes	20,000 pcs	70 x 36 x 38 (cm)

^{*} Minimum Order Quantity: 1,000 pcs / One Reel

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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

- 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 it.

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