

SENSOR SWITCH

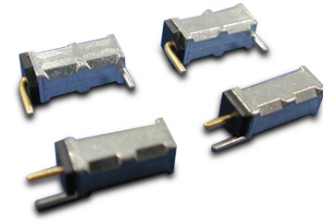
Item #	RBS06 Series	Description	TILT SWITCH	Version	V99.0
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● FUNCTIONS

1. Horizontal Tilt Detecting
2. Tilt Detecting
3. Up-side Down Detecting

● APPLICATIONS

1. Automotive devices
2. Visual devices
3. Home electrical appliances
4. Information devices
5. Communication devices



● FEATURES

1. No electricity consumption during detection status.
2. Gold-plated ball and terminals, low possibility of oxidization.
3. All plastic materials subject to industrial purpose, resist high temperature and meet fireproof function.
4. Simple ON and OFF signals, easy for design.
5. RoHS compliance, an ideal substitute for mercury switch.
6. A more economical tilt and rotation detection option than IC design solution.
7. All made in Taiwan and examined before shipment.

● PATENTS

TAIWAN Patent NO. 172094



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

<p>RBS 06 01 00</p>	<p>Tilt Angle Range $0 > 10^\circ; 0 < -10^\circ$</p>	<p>P.C.B. Layout (DIP) / Top View</p>
<p>RBS 06 02 00</p>	<p>Tilt Angle Range $0 > 10^\circ; 0 < -10^\circ$</p>	<p>P.C.B. Layout (DIP) / Top View</p>

● ELECTRICAL CHARACTERISTICS

1.	Contact Rating	10mA, 5VDC
2.	Contact Resistance	100Ω max.
3.	Differential Angle	Refer to the drawing
4.	Insulation Resistance	1,000MΩ min. at 100VDC
5.	Dielectric Strength	500VDC min. for 1 minute
6.	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.	Humidity	95% RH, 40°C for 96 hrs.
5.	Solder Ability	After flux 245±5°C for 5±0.5 seconds 95% coverage



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● BILL OF MATERIAL

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

● PACKAGE (Minimum Order Quantity: One Bag)

	Part Number	Package	Quantity	Total	Size
1.	RBS060100 RBS060200	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)

● 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: 5mA
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.



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● PRECAUTIONS FOR USE

1. 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.