



SENSOR SWITCH

Item.#	VBS03 Series	Description	VIBRATION SWITCH	Version	V97.0
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● APPLICATIONS

1. Omni-directional vibration detecting: Remote Controller, Wireless Mouse, etc., occasions that request for vibration Power ON functions.
2. Suitable to stroke signal applied such as earthquake detecting system, bicycle alarms, car alarms, and home security systems, toys, sporting shoes etc.



● FEATURES

1. Small size & compact space.
2. Special structure; increased strength between housing and base.
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. 204790
2. U.S.A. Patent NO. US 6,706,979 B1
3. China Patent NO. ZL 03 2 44812.0

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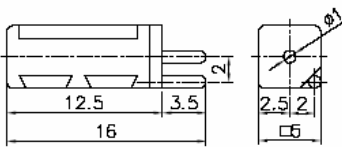
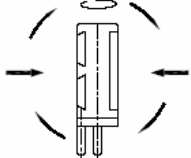
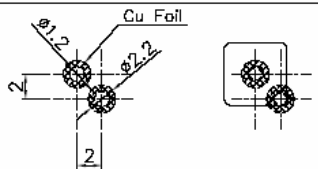
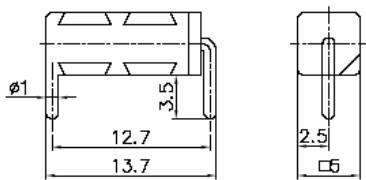
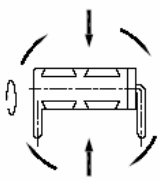
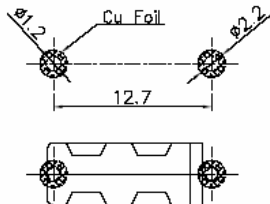
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● DIMENSIONS / OPERATION / P.C.B. LAYOUT (Unit: mm, Tolerance: ±0.25mm)

<p>VBS 03 01 00</p> 	<p>Fleetingly Open When Being Vibrated From Any Position</p> 	<p>P.C.B. Layout (DIP) / Top View</p> 
<p>VBS 03 02 00</p> 	<p>Fleetingly Open When Being Vibrated From Any Position</p> 	<p>P.C.B. Layout (DIP) / Top View</p> 

● ELECTRICAL CHARACTERISTICS

1.	Contact Rating	25mA · 24VDC
2.	Switching type	Normal Close (NC)
3.	Insulation Resistance	1000MΩ min. At 100 VDC
4.	Dielectric Strength	500 VDC min. for 1 minute
5.	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.	Base	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.	VBS030100	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)
	VBS030200	Carton	3 Boxes	15,000 pcs	36 x 28 x 23 (cm)

* Minimum Order Quantity: One Bag

● NOTE

1. Suggestion Contact Rating: 5 mA.
2. 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.

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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.