



规格书

SPECIFICATION

CUSTOMER NAME	客户名称:	
CUSTOMER NO.	客户编号:	
SERIES	系 列:	倾斜震动开关
MODEL NO.	型 号:	XB-SW-300D
DRAWING NO.	图 形 号:	Tilt switch

If specification of this product meets your request, please confirm all the items of it and return to us with signature and stamp, it will be basis of our production and record. Thanks your cooperation in advance!

若此产品规格符合贵司要求，敬请确认此规格书内所有项目
并签名和盖章后回传给我司，以作我司产品制作之

依据和存档之用，多谢合作！

EXAMINE & APPROVAL 审批

APPROVE 接受	NOT APPROVE 不接受
SIGNATURE 签署 STAMP盖章 DATE日期	

PREPARED BY.制表人	CHECKED BY.校对	APPROVED BY.审核	APPROVAL BY.批准
研发部	品质部	工程部	总经办
戴海明	黄自清	庞军	吴量
2022. 06. 08	2022. 06. 08	2022. 06. 08	2022. 06. 08

东莞市溪榜电子有限公司

Dong guan Xi Bang Electronics Co., Ltd

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Quality core! Afterburner for Made in China!

产品规格书Product Details specification

产品名称Title	File No.	Version	Date	Page
XB-SW-300D滚珠开关	XB-SW-3D-192	2023-A2	2023.1.27	2/4

■ 功能Function

1.水平倾斜检测

Horizontal tilt anti-fall detecting

2.垂直翻转检测

Vertical flip anti-fall detecting

■ 应用产品Applications

1.智能家用电器 Smart home appliances

2.智能玩具 Intelligent toy

3.智能电子设备 Intelligent electronic equipment



■ 产品特性

1、XB-SW-300D为滚珠型倾斜感应单方向触发开关。

XB-SW-300D is balls type single direction tilt sensitive trigger switch.

2、产品向帽（A端）倾斜角大于15度时，为开路OFF状态，当产品水平状态发生倾斜改变，触发端（镀金引脚端C）低于水平倾斜角大于15度角时，为通路ON状态。

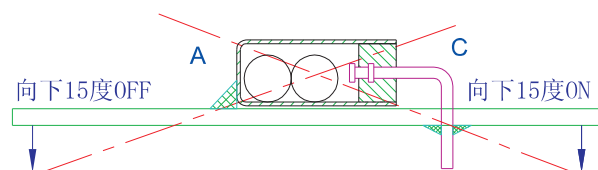
When the products tilt to the cap terminal and the tilt angle is more than 15degree, it will be a opened circuit “OFF-stated”. When the products of horizontal placed tilt change, the trigger lead terminal is below the horizontal and tilt angle is more than 15degree, it will be a closed circuit “ON-stated” .

3、本规格产品是完全密封式封装，可防水、防尘。

Product completely airtight, waterproof, dustproof.



触发波形图



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■ 电器特性 Electrical characteristics:

1	电压	Voltage	1-6V
2	电流	Current	2uA-10mA
3	导通方式	Conduction mode	Discontinuous conduction mode 非连续导通
4	闭路电阻	Closed resistance	<30 Ω
5	绝缘电阻	Insulation resistance	>10 MΩ

■ 机械特性 Mechanical characteristics

1	耐温	Temperature range	Operating: -40℃ to 85℃
2	端子拉力	Pull force of terminal	500gf for 1 minute
3	盐雾测试	Salt mist test	95% RH, 40℃ for 24 hours
4	操作寿命	Operating lifespan	100,000 cycles

■ 材料列表Bill of material:

1	铜帽	Copper cap	Brass, silver/nickel-plated
2	导针	Guide pin	Brass, gold-plated
3	滚珠	Ball	Brass / steel, silver-plated
4	封口胶粒	Guide cup	Temperature resistance nylon

■ 焊接特性Welding characteristics

1.手工焊: 320℃±10℃, 2-3秒.

Manual welding: 320℃±10℃, 2-3s.

2.波峰焊接: 260℃±10℃, <5秒.

Wave soldering: 260℃±10℃, <5s.

3.焊锡: 含锡量100%.

Solder tin: tin content 100%.

4.不可使用强酸、碱性助焊剂.

Do not use strong acid alkali flux.

■ 包装Packaging:

1000PCS/袋 (PVC塑料袋, 按一般电子料存放要求存放)

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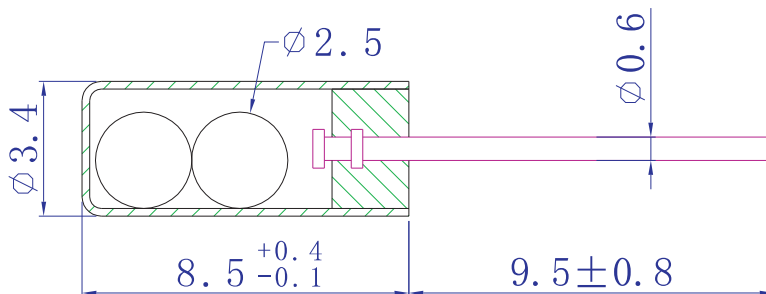
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SIZE尺寸

Unit=mm

Tolerance: ± 0.25



注意事项Note

1. 如果该产品要用于高安全性产品及耐久性极高的设备中（如生命安全设备、航空设施、防灾装置），请确认是否合用，或咨询我司了解详情。

If the product used for high security products and durability of extremely high equipment (such as life safety equipment, aviation facilities, disaster prevention device), please confirm whether a share, can seek advice our company for details.

2. 请勿超负荷使用，以防发生火灾。

In case of fire, Please do not overload applicable.

3. 焊接温度或时间超过规范时，会造成开关解体。

The welding temperature or time more than standard, can cause switch collapse.

4. 勿使用水溶性助焊剂、可能会造成开关损坏。

Do not use water solubility flux. May cause damage to the switch.

5. 勿使用溶剂清洗开关。

Do not use solvent wash switch.

6. 本开关导通率为98%以上（导通率是指开关每100次动作中，可以良好导通的比率）。

This switch conduction rate of 98% (conductivity rate per 100 times value switch actions, can good conduction ratio).

7. 溪榜公司只承担本产品本身不良问题,对不良品进行退换货,不承担其它连带费用责任。

Xibang company is only responsible for the defective problems of the product itself, return and exchange the defective products, and does not bear other joint and several expenses.