



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-106D
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 戴海明 2022. 06. 08	品质部 黄自清 2022. 06. 08	工程部 庞军 2022. 06. 08	总经办 吴量 2022. 06. 08

东莞市溪榜电子有限公司

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Quality core! Afterburner for Made in China!



产品规格书Product Details specification

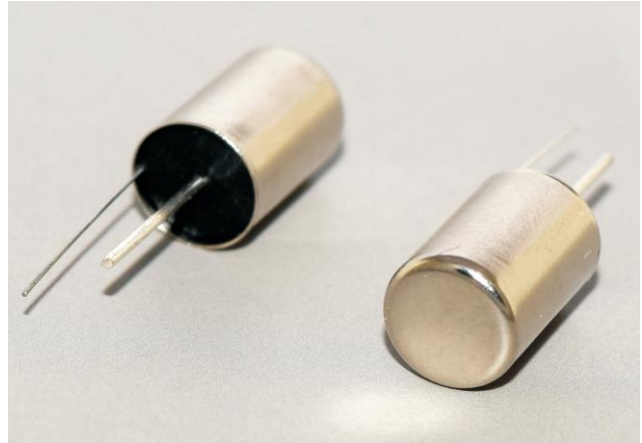
产品名称Title	File No.	Version	Date	Page
XB-SW-106D滚珠开关	XB-SW-4-D-089	A2	2023.02.08	2/4

Function 功能:

- 1.horizontal tilt anti-fall detecting
水平倾斜检测
- 2.vertical flip anti-fall detecting
垂直翻转检测

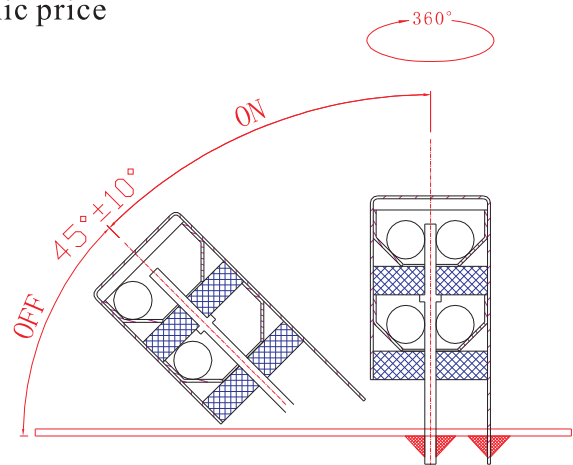
Applications应用产品:

- 1.Heating device anti-fall
数码相框旋转
- 2.Electric fan anti-fall
自动化装置
- 3.Home appliances anti-fall
家用电器



Features产品特性:

- 1.XB-SW-106D is Ball type tilt vibration sensitive switch
XB-SW-106D是滚珠型倾斜感应开关。
- 2.When the product upright is in ON-state, as the products tilt to any direction and exceed 45 ± 10 degrees, switch stay in a disconnect OFF-state
当产品直立时处于通路ON状态，当产品向任一方向倾斜且超过 45 ± 10 度时，开关会处于断开OFF状态。
- 3.Product completely airtight, waterproof, dustproof
本规格产品是完全密封式封装，可防水、防尘。
- 4.In the normal, switch life can reach 100,000 cycles lifespan
在正常使用状态下，开关寿命可达10万次。
- 5.Material compliant with ROHS directive, replace the mercury switch
开关材质ROHS环保，完全替代水银开关。
- 6.Simple for switch signals and circuit, and economic price
开关信号简单、电路线路设计简单、价格经济。





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Electrical characteristics电器特性:

1	Voltage: 电压	1-6V
2	Current: 电流	<20mA
3	Conductive time: 导通时间	about 2ms
4	Closed resistance: 闭路电阻	<30 ohm
5	Open resistance: 开路电阻	>10M ohm

Mechanical characteristics 机械特性:

1	Temperature range: 耐温	Operating: -40℃ to 80℃
2	Pull force of terminal: 端子拉力	500gf for 1 minute
3	Humidity: 湿度	95% RH, 40℃ for 96 hours
4	Operating lifespan: 操作寿命	100,000 cycles

Bill of material 材料列表:

1	Copper cap 铜帽	copper tube ,nickel-plated	1PCS
2	Ring 内杯	copper wire, silver/gold-plated	2PCS
3	Guide pin 导针	copper wire, silver/gold-plated	1PCS
4	Ball 滚珠	copper, silver/gold-plated	4PCS
5	Sealing colloidal particle 封口胶粒	Heat resistance nylon	2PCS
6	Sealing glue 封口胶	Epoxy resin	1PC

Welding characteristics焊接特性

Solder tin, tin content 100%

焊锡: 含锡量100%

Welding humidity (Manual welding): 320℃ ± 10℃

焊接温度(手工焊接): 320℃±10℃

Welding humidity (Wave solder): 280℃ ± 10℃

焊接温度(波峰焊): 280℃±10℃

Welding time: 2-2.5 seconds

焊接时间: 2-2.5秒

Do not use strong acid alkali flux

不可使用强酸、碱性助焊剂

Packaging包装:

500PCS/bag (PVC plastic)

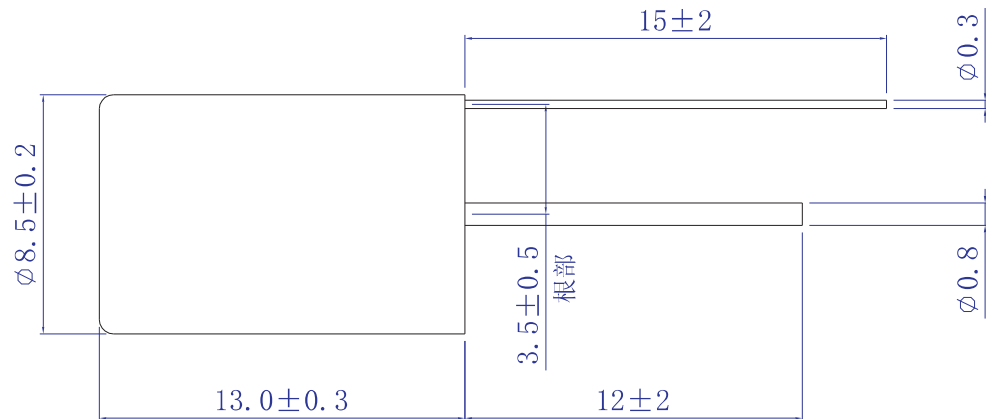
500PCS/袋 (PVC塑料袋, 按一般电子料存放要求存放)

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SIZE 尺寸

Unit=mm



SALT SPRAY TESTING 盐雾测试:

1. Guide pin need to support 350±5degree/3seconds after welding, Put the samples into testing box. And in the testing box temperature is 35degree. 导针引脚承受350±5℃/3秒焊接后, 将样品放在35℃试验箱内。
 2. The test solution: NaCl, Solution concentration 5%, Solution PH value of 6.9. 试验箱溶液: NaCl, 溶液浓度5%, 溶液PH值6.9。
 3. The precipitation amount: 1.2ml/80cm²/h. 沉淀量: 1.2ml/80cm²/h。
 4. The test of time: 24h. 试验时间: 24h。
- Judgment standard: No embroidered patches, No Corrosion, No electrical damage, No chemical reaction or Sundries etc.
判定标准: 无锈斑、无腐蚀变色、无电气损坏、无化学反应和杂物等现象。

Note 注意事项

1. 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. 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。
2. In case of fire, Please do not overload applicable. 请勿超负荷使用, 以防发生火灾。
3. The welding temperature or time more than standard, can cause switch collapse. 焊接温度或时间超过规范时, 会造成开关解体。
4. Do not use water solubility flux. May cause damage to the switch. 勿使用水溶性助焊剂、可能会造成开关损坏。
5. Do not use solvent wash switch. 勿使用溶剂清洗开关。
6. This switch conduction rate of 98% (conductivity rate per 100 times value switch actions, can good conduction ratio). 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)。