

产品规格书 **Product Details specification**

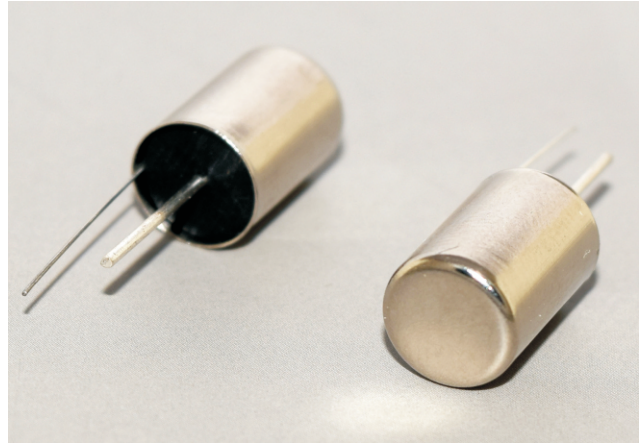
产品名称Title	File No.	Version	Date	Page
SW-106D滚珠开关	BL-4-D-089	A2	2017.12.8	1/3

■ 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

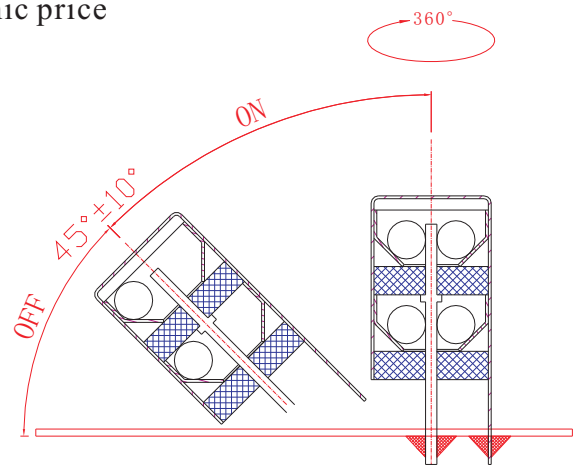
■ Applications应用产品:

- 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.SW-106D is Ball type tilt vibration sensitive switch
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	<12V
2	Current:	电 流	<20mA
3	Conductive time:	导通时间	about 2ms
4	Closed resistance:	闭路电阻	<10 ohm
5	Open resistance:	开路电阻	>10M ohm

■ Mechanical characteristics 机械特性:

1	Temperature range:	耐温	Operating: -40°C to 80°C
2	Pull force of terminal:	端子拉力	500gf for 1 minute
3	Humidity:	湿度	95% RH, 40°C 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: 260°C ± 10°C

焊接温度: 260°C±10°C

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)

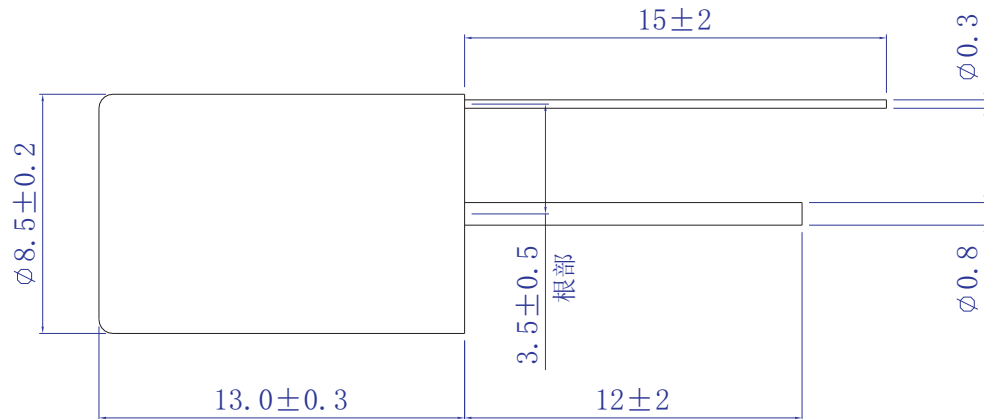
500PCS/袋 (PVC塑料袋, 按一般电子料存放要求存放)

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SIZE 尺寸

Unit=mm



SALT SPRAY TESTING 盐雾测试:

1. Guide pin need to support 350 ± 5 degree/3 seconds after welding, Put the samples into testing box. And in the testing box temperature is 35 degree.
导针引脚承受 $350 \pm 5^\circ\text{C}$ /3秒焊接后, 将样品放在 35°C 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)。