



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-668W
DRAWING NO.	图 形 号:	Tilt switch

依据和存档之用，多谢合作！

EXAMINE & APPROVAL 审批

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

PREPARED BY.制表人	CHECKED BY.校对	APPROVED BY.审核	APPROVAL BY.批准
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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-668 45滚珠开关	XB-SW-3D-177	A2	2023.1.26	2/5

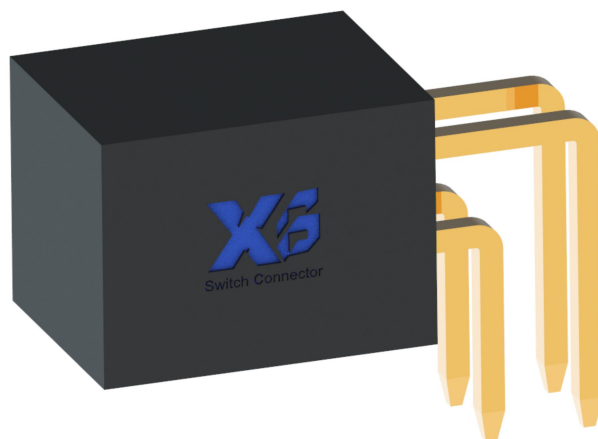
■ 功能Function

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.倾倒安全防护电器 Tilting safety protection circuit

3.智能电子设备 Intelligent electronic equipment

■ 产品特性Features:

1. XB-SW-668 45为滚珠型倾斜感应触发开关。

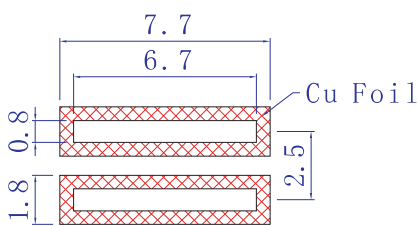
XB-SW-668 45 is Roll ball type tilt trigger switch.

2. 当产品直立时，两对并联脚接通;当产品向任一方向倾斜且超过 45 ± 10 度，开关处于OFF状态。回位角 $20-50$ 度。

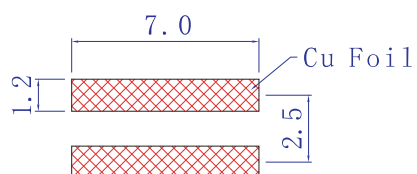
when the product is upright, two pairs of parallel feet connected;
when the product is tilted in either direction and more than 45 ± 10 degrees,
the switch is OFF.



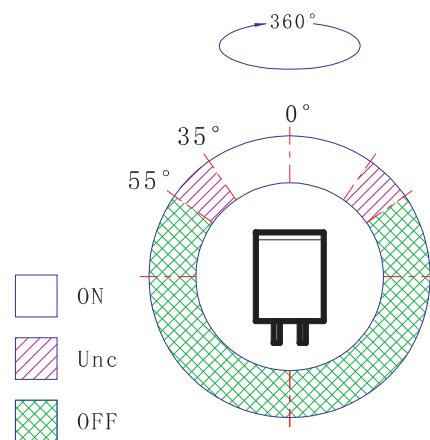
触发波形图



P.C.B. Layout (DIP)



P.C.B. Layout (SMT)



功能角度



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■ 电气特性 Electrical characteristics:

1	电压	Voltage	5VDC
2	电流	Current	10mA
3	导通方式	Conduction mode	Discontinuous conduction mode 非连续导通
4	闭路电阻	Closed resistance	<10 Ω
5	绝缘电阻	Insulation resistance	>1000 MΩ
6	介电强度		>500VDC (min) , 1 minute
7	电容容量		<5pF (max)
8	电气寿命		100,000 times

■ 机械特性 Mechanical characteristics

1	操作耐温	Operating temperature	-25℃ to 85℃
2	储存温度	Storage temperature	-40℃ to 85℃
3	端子拉力	Pull force of terminal	500gf for 1 minute
4	盐雾测试	Salt mist test	95% RH, 40℃ for 24 hours
5	机械寿命	Operating life span	1,000,000 times

■ 材料列表Bill of material :

1	胶座	Plastic base	Temperature resistance nylon
2	胶盖	Plastic cover	Temperature resistance nylon
3	滚珠	Ball	Brass ,gold-plated
4	导针	Pin	Brass ,gold-plated

■ 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: 250℃±10℃, <5秒.

Wave soldering : 250℃ ± 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:

500PCS/袋 (PVC塑料袋, 按一般电子料存放要求存放)

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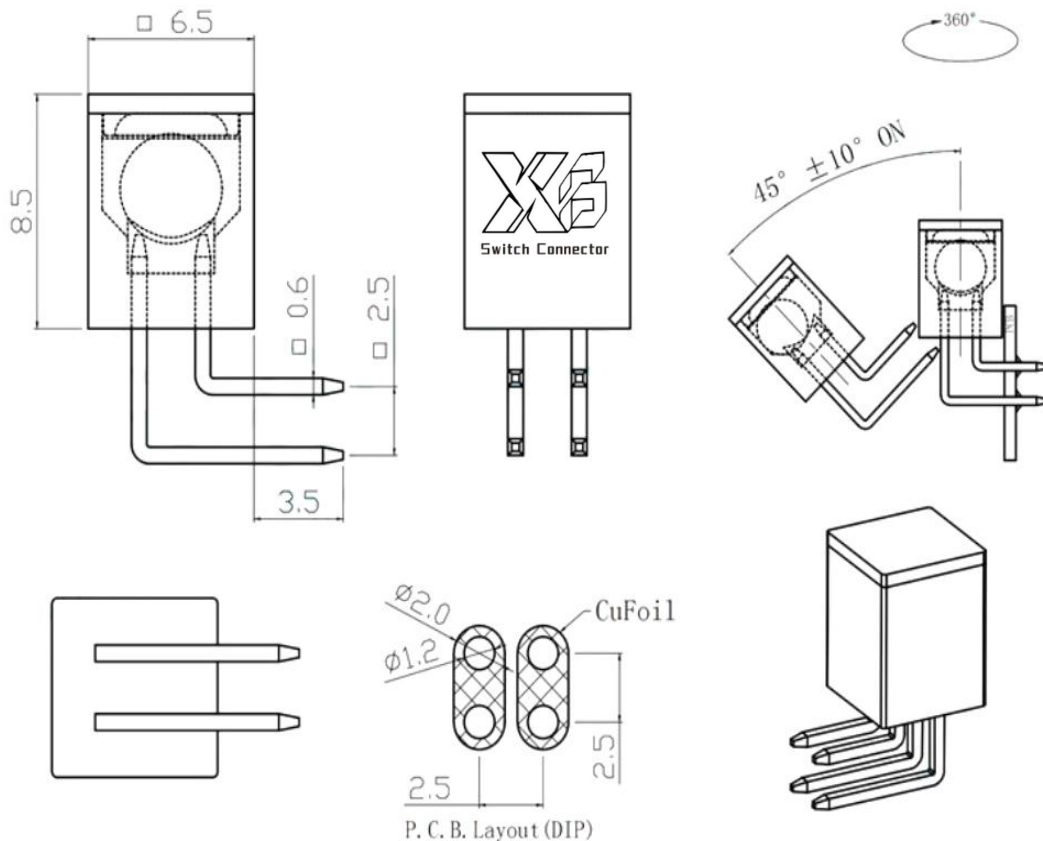
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SIZE尺寸

Unit: mm,
Tolerance ± 0.25



注意事项 Note

- 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.
- 请勿超负荷使用，以防发生火灾。
In case of fire, Please do not overload applicable.
- 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.
- 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.
- 勿使用溶剂清洗开关。
Do not use solvent wash switch.
- 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).
- 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.



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■ 测试Test

溪榜此类产品已通过盐雾、导通、焊接、耐温、寿命技术参数测试。

Xibang has passed the tests of salt spray, conduction, welding, temperature resistance and service life.

■ 限制和警告Restrictions and warnings

本产品不适用于：可导致人身伤害或死亡的安全设备上使用，买方在此类应用程序中使用本产品时，由买方自担风险。

This product is not applicable to use on safety equipment that may cause personal injury or death. When the buyer uses this product in such application, the buyer shall bear the risk.

■ 系统集成测试System integration test

产品发布前应进行全面的测试，以确保系统集成不会导致无法预料的问题。

系统集成商承担目标成品安全的最终责任。

Comprehensive testing shall be conducted before product release to ensure that system integration will not lead to unexpected problems.

The system integrator bears the ultimate responsibility for the safety of the target finished product.

■ 注意Note

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Therefore, the design engineer should use this information for reference only, not as the main design standard, and should include such information.

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