



标准&定制开关连接器产品制造商
DONG GUAN XI BANG ELECTRONICS CO., LTD.

规格书 SPECIFICATION

CUSTOMER NAME 客户名称: _____
CUSTOMER NO. 客户编号: _____
SERIES 系 列: 倾斜开关
MODEL NO. 型 号: XB-SW-1210-30
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	总经理 吴量 2022. 06. 08

东莞市溪榜电子有限公司

Dong guan Xi Bang Electronics Co., Ltd

地址: 广东省东莞市黄江镇合路工业区

Address: He Lu Industrial Zone, Huangjiang Town
, Dongguan City, Guangdong Province

Tel: (0769)82055138/82056828

Fax: (0769)83663452

邮箱: admin@alspr.com switch@alspr.com

<http://www.alspr.cn/> <http://www.alspr.com/>

Dong Guan XB Electronics Co., Ltd

Account Number: 705540238

Bank Name: Citibank N. A., Hong Kong Branch

Country/Region: Hong Kong

Bank Code: 006

Bank Address: 3 Garden Road, Central, Hong Kong

SWIFT/BIC: CITIHKHX (CITIHKHXXXX*If 11 characters are required)

MAil: HK@ALPSR.CN XB@ALPSR.CN XB@ALPSR.COM

Quality core! Afterburner for Made in China!



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■ 功能Function

1.水平倾斜检测

Horizontal tilt detecting.

2.垂直翻转检测

Vertical flip 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-1210-30是滚珠型倾斜感应开关。

XB-SW-1210-30 is Ball type tilt vibration sensitive switch.

2. 开关倾斜0-20度处于断开OFF状态，当开关向任一方向倾斜且超过40度时，开关会处于通路ON状态。

When the switch tilt to 0-20 is in OFF-state, as the switch tilt to any direction and exceed 40 degrees, switch stay in a disconnect ON-state.

3. 本开关在受外力振动时有机会产生间歇性通断现象。

When the switch is vibrated by external force, it may have intermittent on-off phenomemo.

4. 本开关是一种触发性开关，不适用于长时间通电功能，仅适合触发信号。

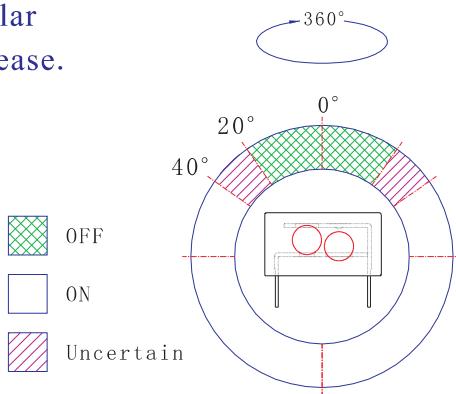
This switch is a trigger switch, which is not suitable for long-time power on function, but only for trigger signal.

5. 导通测试参考旋转角速度大于20度/秒, 过慢的角速度可能不触发或触发角增大。

The reference rotation angular velocity of conduction test is greater than 20 degrees / s, and the too slow angular velocity may not trigger or the trigger angle may increase.



触发波形图



功能角度



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■ 电气特性 Electrical characteristics:

1	工作电压	Voltage	5VDC
2	电流	Current	1-10mA
3	导通方式	Conduction mode	Discontinuous conduction mode 非连续导通
4	导通电阻	Conduction resistance	<10 Ω
5	电气寿命	Electrical life	100,000 times

■ 机械特性 Mechanical characteristics

1	操作耐温	Operating temperature	-25℃ to 85℃
2	储存条件	Storage condition	0℃ to 30℃, RH40-75%,Storage life :1 year
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	200,000 times

■ 材料列表Bill of material :

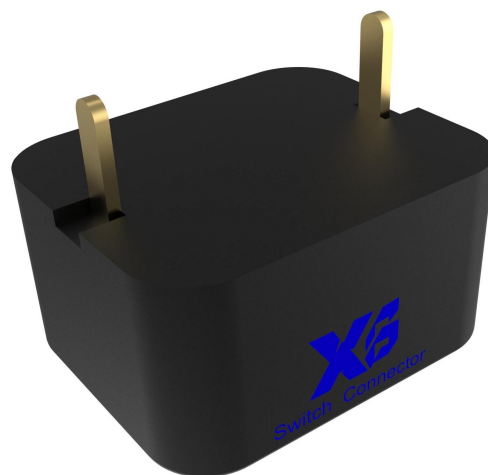
1	胶盖	Plastic cover	PA+15% GF,Finished:matt
2	胶座	Plastic base	PA+15% GF,Finished:matt
3	滚珠	Ball	Brass,silver-plated
4	铜帽	Copper cap	Brass,silver-plated
5	导杯	Guide cup	Brass,silver-plated

■ 焊接特性Welding characteristics

- 手工焊: 350℃±10℃, 2-3秒.
Manual welding : 350℃ ± 10℃, 2-3s.
- 波峰焊接: 250℃±10℃, <5秒.
Wave solderling : 250℃ ± 10℃, <5s.
- 焊锡: 无铅.
Solder tin: **lead free**.
- 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)
储存条件: 0℃ to 30℃, RH40-75%,Storage life :1 year



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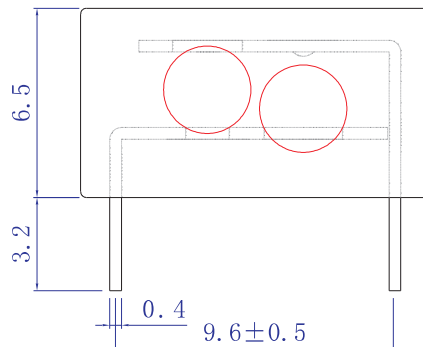
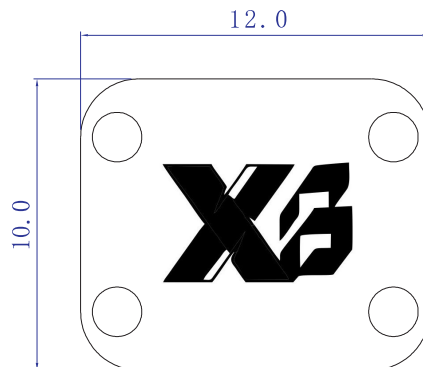
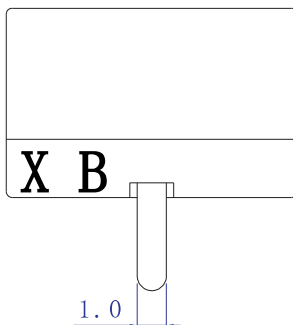
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尺寸SIZE

Unit: mm,
Tolerance ± 0.25



P. C. B. Layout (DIP)
焊盘位



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 switchactions, 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）。
- 7.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.
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。



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■ 测试Test

溪榜电子此类产品已通过盐雾、导通、焊接、耐温、寿命技术参数测试。
Xibang Electronics 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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