



**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: 倾斜震动开关  
 MODEL NO. 型号: XB-SW-2500N  
 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
<div style="border: 1px solid red; padding: 2px;">研发部</div> <div style="border: 1px solid red; padding: 2px;">戴海明</div> <div style="border: 1px solid red; padding: 2px;">2022. 06. 08</div>	<div style="border: 1px solid red; padding: 2px;">品质部</div> <div style="border: 1px solid red; padding: 2px;">黄自清</div> <div style="border: 1px solid red; padding: 2px;">2022. 06. 08</div>	<div style="border: 1px solid red; padding: 2px;">工程部</div> <div style="border: 1px solid red; padding: 2px;">庞军</div> <div style="border: 1px solid red; padding: 2px;">2022. 06. 08</div>	<div style="border: 1px solid red; padding: 2px;">总经理办</div> <div style="border: 1px solid red; padding: 2px;">吴量</div> <div style="border: 1px solid red; padding: 2px;">2022. 06. 08</div>

**东莞市溪榜电子有限公司**

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 Country/Region: Hong Kong  
 Bank Code: 006  
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 SWIFT/BIC: CITIHKHX (CITIHKHXXXX\*If 11 characters are required)

MAil: HK@ALPSR.CN    XB@ALPSR.CN  
 Quality core! Afterburner for Made in China!

## Product Details specification 产品规格书

Title 产品名称	File No.	Version	Date	Page
Micro vibration sensor X B - S W -25 00N XB-SW-25 00N微型振动传感开关	XB-SW-4-D-023	A6	2023.12.6	2/5

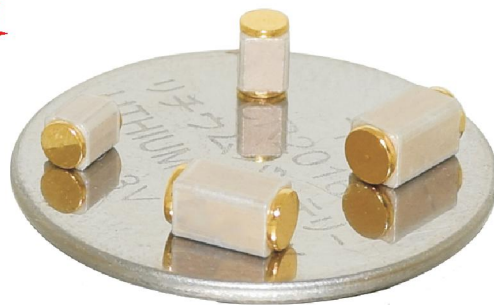
### Function 功能:

1. Motion detecting  
运动检测
2. Wake up function  
唤醒功能

耐高温  
高性能  
贴片安装

### Applications 应用产品:

1. Remote controller  
遥控器
2. Automation equipment  
自动化装置
3. GPS communication product  
GPS通讯产品
4. Home appliances  
家用电器
5. Automobile security equipment  
汽车防盗设备

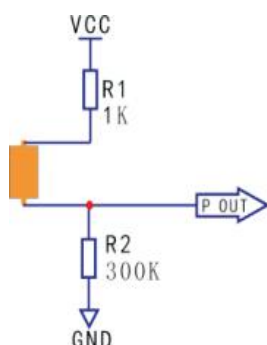


### Features 产品特性:

1. XB-SW-2500N is roll ball type omni signal trigger sensing switch.  
XB-SW-2500N为滚珠型全方位信号触发开关。
2. This product is a mechanical vibration sensor, the product at any azimuth angle trigger is in the ON or OFF state, When the product be shaken, the internal parts jitter, resulting in ON / OFF alternating pulse signal, thus trigger the circuit.  
因本产品为机械式的震动传感元件，产品在任何方位角度时处于ON或者OFF的状态，当产品震动时，内部件抖动，产生ON/OFF交替的脉冲信号，从而触发电路。**信号形式、触发概率见第4页。**
3. Product completely airtight, waterproof, dustproof.  
本产品为完全密封式封装,可防水、防尘。
4. Fine plating, long service life.  
开关电镀优良,寿命长。



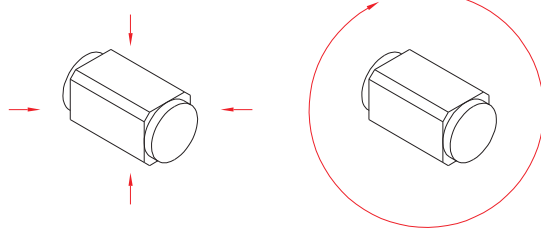
触发波形图



开关测试图

Omnidirectional vibration sensing.  
全方位振动感应

360 Degree tilt sensing.  
360度倾斜感应



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### Electrical characteristics 电器特性:

1	Voltage	电 压	<6V
2	Current	电 流	<20mA
3	Conduct ive time	瞬间导通时间	about 2ms
4	Closed resistance	瞬间闭路电阻	<30 ohm
5	Insulation resistance	绝 缘 电 阻	>10M ohm

### Mechanical characteristics 机械特性:

1	Temperature range	耐温范围	Operating: -40°C to 80°C
2	Pull force of terminal	端子拉力	500gf for 1 minute
3	Salt mist test	盐雾测试	95% RH, 40°C for 24 hours
4	Service life	使用寿命	50,000 hours

### Bill of material 材料列表:

1	Pipe body	管体	Brass,glue	1PCS
2	Copper plug	铜塞	Brass, gold-plated	2PCS
3	Ball	滚珠	Brass, gold-plated	2PCS

### Welding characteristics 焊接特性

Solder tin, tin content 100%

焊锡: 含锡量100%

Manual Welding humidity time:

350±10°C, 2.5-3.5s

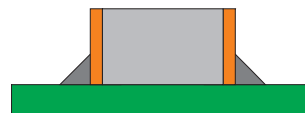
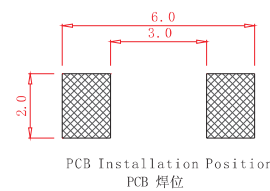
手工焊温度时间: 350±10度, 2.5-3.5秒;

Reflow soldering humidity time:P4.

回流焊温度时间: 见第4页;

Do not use strong acid alkali flux

不可使用强酸、碱性助焊剂



### Packaging 包装:

1、1000PCS/bag (PVC plastic)  
1000PCS/袋(PVC 塑料袋)

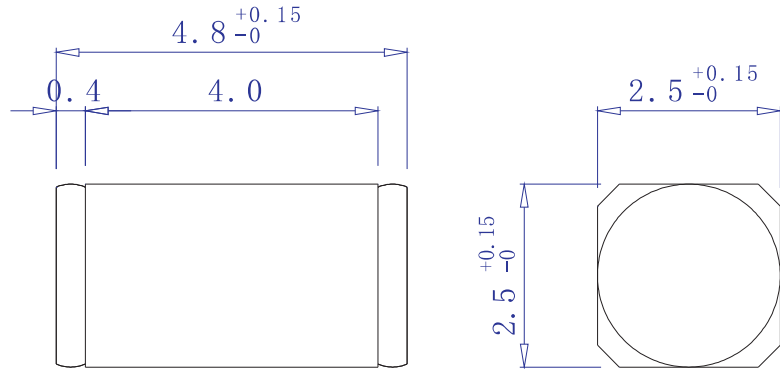
2、2500PCS/tape  
2500PCS/卷

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### SIZE尺寸

Unit=mm



### SALT SPRAY TESTING 盐雾测试:

- Copper plug need to support  $350 \pm 5^\circ\text{C}$ /3seconds after welding, Put the samples into testing box. And in the testing box temperature is 35degree.  
铜塞承受 $350 \pm 5^\circ\text{C}$ /3秒焊接后,将样品放在 $35^\circ\text{C}$ 试验箱内。
  - 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。
  - The precipitation amount:1.2ml/80cm<sup>2</sup>/h. 沉淀量: 1.2ml/80cm<sup>2</sup>/h。
  - 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。

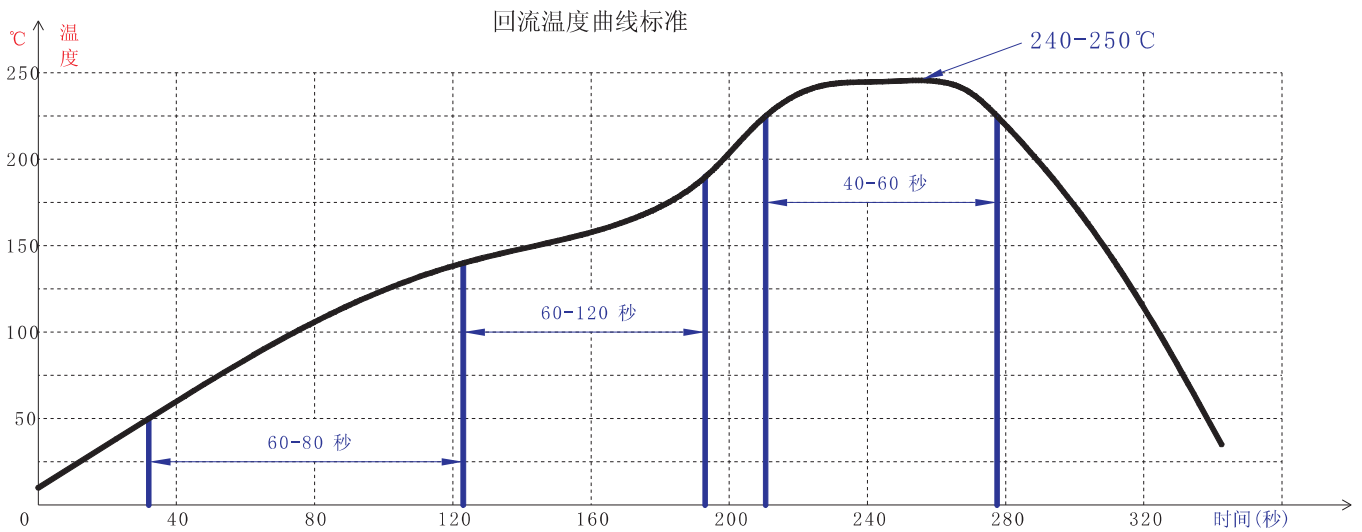
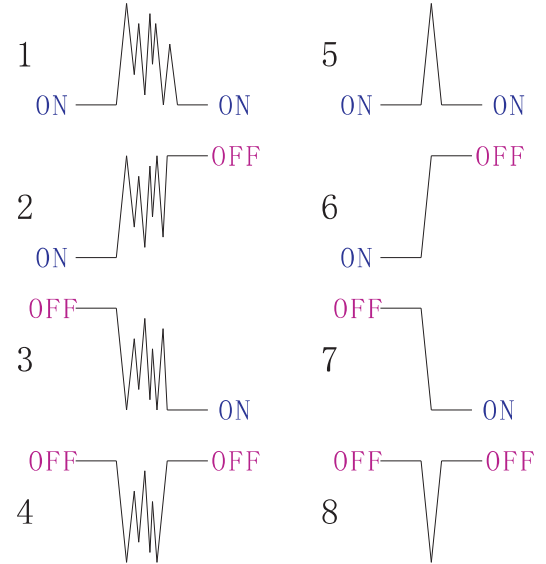
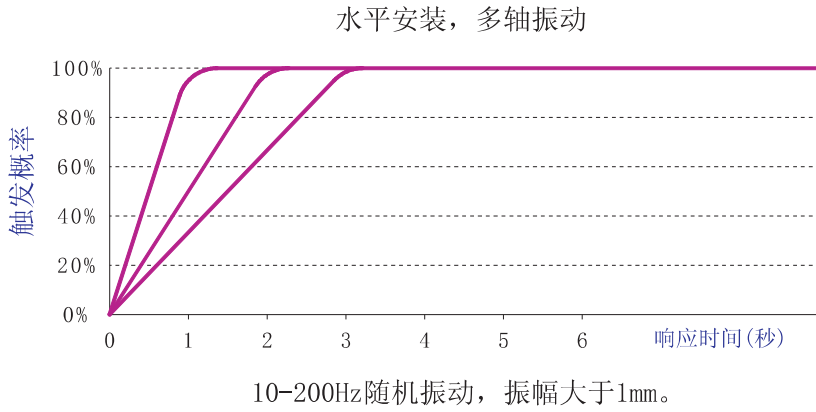
### Note 注意事项

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

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传感器信号形式:长波、短波各4种



管制要点

项目	温度范围(°C)	维持时间(秒)	温度斜率(°C/秒)
预热区	50-140	60-80	< 3
恒温区	140-190	60-120	< 1
回流区	217以上	40-60	< 2
峰值温度	240-250°C		
冷却区	降温斜率 < 3°C/秒		
链速	70-85 cm/分钟		

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