Customer name/客户名称:

ATTN / 收阅人: _____

承认书

SPECIFICATION FOR APPROVAL

产品名称	轻 触 开 关
PRODUCTOR NAME:	TACT SWITCH
产品型号 PRODUCTOR MODEL:	3*6*2.5拉伸

客户料号 CUSTOMER NO:

APPROVED BY CUSTOMER

BY DATE / 日期:_____

SIGNATURE/签名:_____

DESIGNED/拟制

CHECKED / 审核

APPROVED/核准

SPECIFICATION 规格书			
Model Tyj 类型型号:	pe: TACT S	SWITCHES	
Part No.: 料号:			
1. Scope	/ 适用范围		
	•	oplied to TACT SWITCH which is use ^立 品上的轻触开关。	ed for electric products.
2. Rated	/ 额定值		
适月 Hun 湿月 2-2. Pre 保不 Hun 湿月 2-3. Rat 额; 2-4. App	用温度范围: -25° midity range: 85% 度范围: 85% RH.I servation temperat 存温度范围: -25° midity range: 85% 度范围: 85% RH.I red voltage and cur 定电压和额定电流 pearance: No scra	RH.MAX. MAX. ure range: -25° C to +80° C C to +80° C & RH.MAX.	be observed.
3. Constr 3-1.Outl のutl 开关 3-2.Part The	uction / 说明 line And Dimension ine and dimension 的外观和尺寸应与 And Material / 部 parts and materials	n / 外观和尺寸 of the switches shown be as attached ass 5附件图纸相符。 件和材料 s shown be in material identification shee	
	和材料应与材料着 cal efficiency /		
Item 项目	Property 特性	Test condition 测试条件	Performance 判定
4-1	Withstand voltage 耐电压	The switch shall be withstanded 250V (AC 50/60Hz RMS) between mutually insulated pin contacts for one minute.	No dielectric breakdown shall occur. 无击穿现象发生

one minute.

并持续1分钟。

insulated terminals

made a closed circuit.

回路

在相互绝缘的接触脚之间,开关 能承受250V电压(AC 50/60Hz RMS)

Using 100 volts DC insulation

承受施加的100V直流电压。

resistance meter between mutually

在相互绝缘的端子之间,开关应能

Between terminals of the switch to be

开关两个端子之间组成一个闭合的

100 M Ω MIN.

最小100 兆欧

 $30 \mathrm{m} \Omega$ MAX.

不超出30毫欧

4-2

4-3

Insulation

resistance

绝缘阻抗

Contact

resistance

接触阻抗

SPECIFICATION 规格书

Model Type: 类型型号:

TACT SWITCHES

Part No.:

料号:

5. Mechanical efficiency / 机械特性

Item 项目	Property 特性	Test condition 测试条件	Performance 判定
5-1	Actuating force 操作力	Placing the switch such that the direction of switch operation is vertical and then gradually increasing the load applied to the center of the stem the maximun load required for the stem to come th a stop shall be measured.	According to the drawing 依外形图规定
		将开关之操作部位置于垂直方向,并 在手柄的中央逐渐增加荷重直到手柄 不动为止,量取施力期间之最大荷重 值.	
5-2	Return force 回复力	The switch is installed such that the direction of switch operation is vertical and upon depression of the stem in its center the whole travel distance the force of the stem to return to its free position shall be measured. 将开关之操作部位置于垂直方向,并在手柄的中央施力,使之移动全行程后再测量其回复至原来位置之力.	50gf min. 50gf 最小.
5-3	Stem strength 手柄强度	 Placing the switch such that direction of switch operation is vertical the maximum force to withstand a pull applied opposite to the direction of stem operation shall be measured. 将开关之操作部位置于垂直方向,并在手柄操作方向之相反方向,施加拉力,测量其最大抗拉力量. 	There shall be no sign of damage mechanically and electrically. 不得有电气及机械上的破坏之现象.

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Model Type: 类型型号:

TACT SWITCHES

Part No.: 料号:

Item 项目	Property 特性	Test condition 测试条件	
5-4	The test 寿命试验	The life test measurements shall be made following the test set forth below: Resistve load: DC 12V 50mA. Rate of operation 2 to 3 operations per second. Depression:Upper limit of the actuating force. Cycles of operation:5x10 ⁴ cycles. 按下列设定方法测试: 额定负载: DC 12V 50mA. 动作速度: 2~3次/秒. 按压力量: 动作力之上限. 动作次数: 5 x 10 ⁴ 次	判定 1.Contact resistance 100 m Ω max. 2. Operating force : Within ±30% of specified value. 3.The other performance conform to request 1.接触电阻: 100毫欧最大。 2. 操作力: 在原始值的±30%以内。 3. 其它性能符合要求.
5-5	Vibration test 振动试验	The Vibration test measurements shall be made following the test set forth below: 1>Range of oseillation:10to50Hz 2>Amplitude pk to pk:1.5mm 3>Direction of oscillation:three mutually perpendicular directions including the direction of stem travel 4>Test time:2 hours each for a total of 6 hours. 按下列设定方法测试: 1>振动范围: 10~55Hz. 2>振幅: 1.5mm. 3>振幅方向: 相互垂直之三个方向(含手柄移动之方向) 4>试验时间: 各2小时(共6小时).	 There shall be no sign of damage mechanically and electrically. Contact resistance:100m Ω max. Insulation resistance 50M Ω min. 不得有电气及机械上的破坏之现象. 接触电阻: 100m Ω 最大. 绝缘阻抗: 50M Ω 最小.

SPECIFICATION 规格书

Model Type: 类型型号: Part No.:

TACT SWITCHES

Part No 料号:

6. Solderability / 焊锡试验

Item 项目	Property 特性	Test condition 测试条件	Performance 判定
6-1	Resistance to soldering heat test 耐焊性试验	The switch terminal shall be dipped in solder under the condition as specified below: Temperature of solder: 260± 5° C. Dip time: 5± 1 seconds.	
		端子浸入锡炉里,按以下条件测试: 焊锡温度:260±5°C 浸入时间:5±1秒	
6-2	Soldering test 可焊性试验	Temperature of solder: 240± 5° C. Time of dip: 3± 0.5 seconds. Length of dip: 2.5 mm(from top of terminal). 焊锡温度: 240± 5° C. 浸入时间: 3± 0.5 秒 浸入深度: 2.5 mm(从端子顶部开始).	Areas of soldering shall be capable of 90% or more of dip terminal area. 端子顶端沾锡面积要求达到90%以 上.

7. Environment test / 环境试验

Item 项目	Property 特性	Test condition 测试条件	Performance 判定
7-1	1 Cold test 低温试验	The switch shall be subjected to temperature of $-25\pm 2^{\circ}$ C for a period of 96 hours ,then shall be allowed to remain in room ambient conditions for 30 minutes.	 There shall be no sign of damage mechanically and electrically. Contact resistance:100m Ω max. Insulation resistance 50M Ω min.
		将开关放置在-25±5°C低温条件下 持续96小时,然后在室温条件下静置 30分钟。	 不得有电气及机械上的破坏之现象. 接触电阻: 100mΩ最大.
7-2	Heat test 高温试验	The switch shall be subjected to temperature of $80\pm 2^{\circ}$ C for a period of 96 hours ,then shall be allowed to remain in room ambient conditions for 30 minutes.	3. 绝缘阻抗: 50MΩ最小.
		将开关放置在80±2°C高温条件下持续96小时,然后在室温条件下静置30 分钟。	

odel Tyj 型型号:	pe:	TAC	T SWITCHES	
urt No.: 号:				
7-3		idity test 试验	The switch shall be subjected to temperature of 40± 2° C and relative humidity of 90% t0 95% for a period of 96 hours.Upon completion of the exposure, dew drops shall be blown out and removed from the switch, after which the switch shall conditioned at room ambient conditions for 30 minutes. 将开关放置在温度为40± 2° C, 相对 湿度为90~95%的环境下持续96小时。 完成以上事项后,除去开关上的水珠 ,然后在室温条件下静置30分钟。	 There shall be no sign of damage mechanically and electrically. Contact resistance:100m Ω max. Insulation resistance 50M Ω min. 不得有电气及机械上的破坏之现象. 接触电阻: 100m Ω 最大. 绝缘阻抗: 50M Ω 最小.
7-4	cyclir	erature ng test 盾环试验	The switch shall be subjected to conditions as shown in below, and then shall returned and allowed to remain in ambient condition for 30 minutes. 将开关放置于如下所示条件下进行试 验,然后在室温条件下放置30分钟。 (TEMPERATURE) ^{温度} +80°C -25°C 	 There shall be no sign of damage mechanically and electrically. Contact resistance:100m Ω max. Insulation resistance 50M Ω min. 不得有电气及机械上的破坏之现象. 接触电阻: 100m Ω 最大. 绝缘阻抗: 50M Ω 最小.

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7-5 Salt n 盐雾	 nist test 试验 Testing bath: The temperature shall be 35° C±2° C in the ambient of the switch during the test. Spray apparatus: The apparatus shall be capable of producing fine dense mist uniformly. Salt water: The concentration of the salt water shall be adjusted at 5±1% weight ratio at 35° C±2° C. Testing time: 16±0.5 hours. 试验室: 在温度为35±2° C条件下进行测试 喷雾设备: 设备应能承受均一浓度的盐雾 盐水浓度: 在温度为35±2° C条件下,盐水浓度 为5±1% 测试时间: 16±0.5 hot Appearance shall not be extremely rust. Contact resistance:100m Ω MAX. Insulation resistance 50M Ω min. . 外观没有明显的生锈现象。 2. 接触电阻: : 最大100m Ω. . 绝缘阻抗: 50M Ω 最小.

8. Test condition / 测试条件

The test and measurement,unless otherwise specified,shall be carry out at a temperature of 5° C \sim 35° C, relative humidity of 45% \sim 85%, and atmospheric pressure of 86kPa \sim 106kPa. However,when any doubt arises on the judgment value under it.the test and measurement shall be carry out a temperature of 20± 2° C, relative humidity of 60% \sim 70%, and atmospheric pressure of 86kPa \sim 106kPa.

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除非另有指定,否则测试和测量温度在5°C~35°C,相对湿度在45%~85%,气压在86kPa~106kPa条件下进行。
当在这个条件下判定出现疑问时,测试和测量在20±2°C,相对湿度60%~70%,气压在
86kPa~106kPa条件下进行。
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9. Amendment / 变更修正

When the amendment of this specification comes into necessity, it shall made by the mutual consultation and agreement between manufacture and customer.

当有必要对规格书进行变更修正时,应该在制造商和客户共同商议及同意后才可以进行。

※ This specification is state with Chinese & English, Chinese is preferential while doubt in interpretation.
规格书同时记入中英文,但发生疑义的场合以中文优先。

