ISO9001: 2015 ISO14001: 2015

APPROVAL SPECIFICATIONS

Title: TACT SWITCH

Part NO: KAN0632N-0701B

Customer's Part NO.

Model:

Customer's Approval Requested.

Please return this copy as a certification of your approval.

Checked by: Date:

Approved by: Date:

APPROVE	REVIEW	POLT
彭飞	刘叶泉	卢娇娇

CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION
		KAN0632N-0701B	TACT SWITCH	А

1、 概述

GENERAL

1.2 适用范围

APPLICATION

此规格书适用于机械式轻触开关的相关要求

This specification is applied to the requirements for TACTILE SWITCH (MECHANICAL CONTACT)

1.3 工作温度范围

Operating Temperature Range

- -20℃~70℃(在标准大气压、标准湿度条件下)
- -20°C ~70°C (Normal humidity, normal air pressure)
- 1.4 贮藏温度范围

Storage Temperature Range

- -30℃~80℃(在标准大气压、标准湿度条件下)
- -30° C \sim 80°C (Normal humidity, normal air pressure)
- 1.5 测试条件

Test Conditions

在没有其它特定的条件下,应该在以下的条件下进行测试和测量:

Unless otherwise specified, tests and measurement shall be made in the following standard conditions:

常温......5℃~35℃

Normal temperature......5℃~35℃

标准湿度......相对湿度 25%~85%

Normal humidity.....relative humidity 25%~85%

标准大气压......86KPa~106Kpa

Normal air pressure......86Kpa~106Kpa

在制造过程中,测试和测量应该在以下的条件下进行:

If any doubt arise from the judgment, tests shall be conducted at the following conditions:

温度......20℃±2℃

Temperature......20℃±2℃

相对湿度......65%±5% Relative humidity......65%±5%

环境气压.......86KPa~106Kpa

Air pressure......86KPa~106Kpa

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2、 详细说明

Detailed specification

2.1 外观:应无影响、降低产品性能的缺陷;

Appearance: There should be no defects that affect the serviceability of product.

2.2 结构尺寸和安装尺寸:应符合装配图要求;

Style and dimension: shall conform to the assemble drawings.

2.3 操作形式:有触觉反应的操作

Type of actuating: Tactile feedback.

2.4 开关结构: 单回路单输出(具体的触点结构在装配图中已绘出);

Contact arrangement: 1 pole, 1 throw

(Details of contact arrangement are given in the assembly drawings.)

2.5 开关工作额定值: DC 12V, 50mA (有效值)

Ratings: 12V DC, 50mA (effective value)

3. 电气性能:

ELECTRICAL SPECIFICATION

项	目		i i	 试 验 条 件			要求
ITE	ΞM		TE	EST CONDITIONS		REG	QUIREMENTS
1		接触电阻 act Resistance	在以 5V 10mA的的的电路中,以一个等于Applying a static the center of the stem 5V DC 10mA or mo		≤100mΩ		
			contact resistance met	er.			
2	ĺ	绝缘电阻 Insulation Resistance	之间底座、盖板的电阻 Measurement sha 100V DC potential,	在端子之间施加 DC 100V /1min 的条件下,测量端子之间底座、盖板的电阻值 Measurement shall be made following application of 100V DC potential, across terminals, and across terminals and cover, for one minute.			
3	介质耐压在端子之间施加 250V AC (50HZ 或 60HZ) /1min3Dielectric250V AC (50HZ or 60HZ) shall be applied across terminals, for one minute.					无击穿、无飞弧 There should be breakdown and flashover	
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	项目		试验条件		要求		
	ITEM		TEST CONDITIONS		REQUIREMENTS		
4	触点抖动 Bounce	在导通和断开过程中测Lightly striking the centre normal use (3 to 4 tested at "ON" and "O开关	Switch 10V DC 10KΩ 示波器 Oscillograph "导通" "断开"				
	械性能: IANICAL SPE	CIFICATION					
1	按力 Operating Force	量开关导通所需的最为 Placing the switch su vertical and then gra center of the stem, th	开关垂直于操作方向放置,在开关驱动件顶端中心逐渐施力,测量开关导通所需的最大力度。 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 maximum load required for the switch to come to a stop shall be measured.				
2	最大行程 Full Travel	开关驱动件顶端中心, Placing the switch su vertical and then appl the center of the stem	开关垂直于操作方向放置,以一个等于 2 倍按力的静负荷施加在 开关驱动件顶端中心,测量顶端移动的距离。 Placing the switch such that the direction of switch operation is vertical and then applying static load of 2times operating force to the center of the stem; the travel distance for the switch to come to a stop shall be measured.				
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	项目		试 验 翁	、 件			要求
	ITEM		TEST CONE	DITIONS		RE	QUIREMENTS
3	回弹力 Return Force	开关垂直于操作方际后,测量顶端向自由 The sample switch operation is vertica to the whole travel free position shall b	日位置转换的力 is installed su I and upon dep distance, the fo	n of switch		≥0.4N	
4	停止强度 Stop Strength	开关垂直于操作方向荷持续 1min。 Placing the switch vertical, and then direction of stem or	such that the o	peration is	There damage	几械和电气损坏 shall be no sign of e mechanically and electrically.	
5	手柄拔出 强度 Stem Strength	的行程范围。 Placing the switch vertical, and then the	开关垂直于操作方向放置,反方向实施最大操作力,并测量手柄的行程范围。 Placing the switch such that the direction of switch operation is vertical, and then the maximum force to withstand a pull applied opposite to the direction of stem operation shall be measured.				
6	可焊性 Solderability 在以下设定条件下进行测量: Measurements shall be made following the test set forth below: (1) 焊接温度:245±5℃ Solder temperature: 245±5℃ (2) 浸入时间:2.5s±0.5s Immersion time: 2s±0.5s 对于其它步骤参考《GB 5095.6—86》试验 12a The other steps please refer to《GB 5095.6-86》TEST 12a					90%以」 Except	for the edge, the should cover a
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					KANO)632N-07()1B	TACT SWITCH	1	А
	项目			试 验 条 件						要求
	ITEM				TEST CON	NDITIONS	;		RE	EQUIREMENTS
1	5、极限电气性能: ENVIRONMENTAL SPECIFICATION									
1	低温测试 Resistance low tempera	to iture	标准湿度的 Following to normal ten measurem (1) 温质 Tem (2) 时间	measurements are made: ≤200mΩ (1) 温度: -30±2℃ 项目 3,4.1,4.2,4.3 Temperature : -30±2℃ Item 3,4.1,4.2,4.3						ct resistance: Ω ,4.1,4.2,4.3
2	高温测试 Heat resista	nce	标准湿度的 Following to normal ten measurem (1) 温质 ten (2) 时间	temperature:80±2℃						
3	温度周期性 Change temperati	of							ct resistance: Ω ,4.1,4.2,4.3	
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			KANO	0632N-0701B	TACT SWITCH		А
	项目		试 验	条件			要求
	ITEM		TEST CON		RE	QUIREMENTS	
4	湿温测试 Moisture resistance	标准湿度的环境中 Following the tenormal tempera measurements a (1) 温度: 60 temperatu (2) 相对湿度 relative hu (3) 时间: 96	temperature: 60±2℃ (2) 相对湿度: 90%~95% relative humidity:90% to 95%				阻: ≤200mΩ t resistance: Ω 4.1,4.2,4.3 4.1,4.2,4.3
5	硫化试验 Sulfuration resistance	H ₂ S gas c (2) 时间: 72 Time: 72h (3) 温度: 40	户 1 小时后做性 st set forth bel cure and humi re made: 浓度: 3ppm±1 oncentration:	Contac ≤200m 项目 3,			
6	在以下设定条件下进行测量: The switch shall be checked after following test: (1) 温度: 35℃±2℃ temperature: 35℃±2℃ (2) 盐溶液浓度: 5±1%(质量百分比) salt solution: 5±1%(solids by mass)					No rer	上没有腐蚀斑点 narkable corrosion be recognized in part.
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1	6、极限机械性能: ENDURANCE SPECIFICATION								
	项目				试 验	条 件			要求
	ITEM	TEST CONDITIONS REQUIREMENTS						QUIREMENTS	
1	工作寿命 Operation		DC 32V, 50mA resistive load resistance≤200m					: 初值的±30% ing Force: alue±30% 4.1,4.2,4.3	
2	振动 Vibra	根据以下给定条件进行测试: Measurement shall be made following the test set forth below: (1) 振动频率范围: 10~55~10Hz Vibration frequency range: 10 to 55 to 10Hz (2) 振幅(峰一峰): 1.5mm Amplitude: 1.5mm (3) 振动方向: 包括手柄行程方向在内的三个相互垂直的方向 Direction of vibration:Three mutually perpendicular direction including the direction of stem travel (4) 测试时间: 每次 2hours. Duration: Each 2hours.					4.1,4.2,4.3 4.1,4.2,4.3		
	└────────────────────────────────────	חודום	NC.						
SOLDERING CONDITIONS: 请按以下条件进行焊接: (1) 焊锡温度: ≤350℃ (2) 连续焊接时间: ≤3 s Please practice according to below conditions: (1) Soldering temperature: 350℃ Max. (2) Continuous soldering time: 3 s Max.									
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8. 焊接说明:

SOLDERING EXPLAIN:

说明:

1.1 开关浸焊后,注意不要用溶剂清洗。

After switches were soldered please be careful not to clean switches with solvent.

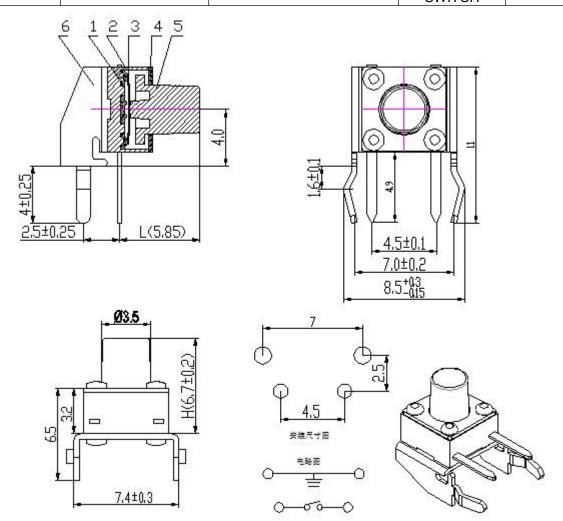
- 1.2 在使用烙铁的情况下,焊锡温度应在 350℃以下、3 秒以内。 In the case of using solding iron, solding conditions shall be 350℃ max and 3 sec.max.
- 1.3 浸焊后,注意不要在顶部施加负荷。

Right after switches were soidered; please be careful not to load to on the knobs of switches.

- 2 设计中应注意的事项(Design instructions):
- 2.1 印刷基板的安装孔尺寸参见产品图。
 Follow recommended P.W.B. piercing plan in outside drawing page.
- 3 注意点(Note):
- 3.1 注意不要施加超负荷的压力或晃动开关
 Please be cautions not to give excessive static load or shock to swiches.
- 3.2 开关浸焊后,印刷基板注意不要叠放。 Please be careful not to pile up P.W.B.after switches were soldered
- 3.3 保管时尤其应注意避开高湿高温和有腐蚀性气体的环境。如需要长时间保存,请不要打开包装箱。 Preservation under high temperature and high high humidity or corrosive gas should be avoided Especially . When you need to preserve for a long period ,do not open the carton .
- 3.4 使用标准插入机器 PANASERT 和 RH6(使用 N 式钉) Panasert RH and RH6 shall be used as the standard inset machine (use N type clinch)
- 3.5 产品应满足 SONY-SS-00259 环境管理物质管制标准 Control hanzardous substance :The product should be meet SONY-SSS-00259 speciffication.

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General tolerance: ±0.2mm H=6.7mm L=H-1.15mm

NO.	NAME	MATERIAL	QTY.	FINISHING
1	TERMINAL	Brass	1	Silver plating
2	CASE	PA66	1	Black
3	CONTACT	F.Ag/C5210	1	Contact side silver plating
4	COVER	SPCC	1	Cu/Sn plating
5	STEM	PA66	1	Black
6	STENT	SPCC	1	镀锡铈锑

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