ISO9001: 2000 ISO14001: 2004

APPROVAL SPECIFICATIONS

Title. TACT SWITCH

Product Model. KAN0647-0342B

Customer's Part NO.

Customer's Model:

Customer's Approval Requested.

Please return this copy as a certification of your approval.

Checked by: Date:

Approved by: Date:

APPROVE	REVIEW	POLT
廖明谷	董杰	王蕾蕾

WENZHOU GANGYUAN ELECTRONICS CO., LTD.



GYUAN CO.,LTD

CUSTOMER	CUSTOMER'S P/N		PRODUCT	REVISION	
		KAN0647-0342B	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 7 7 1 /

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 humidityrelative 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°C±2°C

相对湿度......65%±5%

Relative humidity......65%±5%

环境气压......86KPa~106Kpa

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

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详细说明 2、

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

(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

	i n	Resistance	5V DC 10mA or mo		small-current		
2	I	绝缘电阻 Insulation Resistance	在端子之间施加 D 之间底座、盖板的电阻	C 500V /1min 的条件 值 II be made following across terminals,	application of		≥100MΩ
3	D	广质耐压 ielectric tage proof	在端子之间施加 250V AC(50HZ 或 60HZ)/1min 250V AC (50HZ or 60HZ) shall be applied across terminals, for one minute.				b穿、无飞弧 There should be reakdown and flashover
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			KA	N0647-0342B	TACT SWIT	СН	А	
	项目				要求			
	ITEM		TEST (F	REQUIREMENTS			
4	触点抖动 Bounce	在导通和断开过 Lightly striking normal use (3 tested at "ON" a	按照正常使用时的力度轻按手柄中心(每秒 3~4 次),在导通和断开过程中测试开关抖动 Lightly striking the center of the stem at a rate encountered in normal use (3 to 4 times per second), and bounce shall be tested at "ON" and "OFF" 开关 Switch ON-3msec.max OFF-8msec.max OFF-8msec.max OFF-8msec.max					
	械性能: IANICAL SPE	ECIFICATION						
1	据力 Operating Force					s e	1.6±0.5N	
2	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.					0.25±0.1mm		
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С	USTOMER	CUSTOMER'S	S P/N C	SYE'S P/N	PROD	UCT	REVISION
			KAN	N0647-0342B	TACT SV	VITCH	А
	项目			☆ 条 件	I		要求
	ITEM 回弹力		TEST CONDITIONS				REQUIREMENTS
3	Return Force	开关垂直于操作后,测量顶端向 The sample sw operation is ve to the whole tra	F关垂直于操作方向放置,在开关驱动件顶端中心下降至全行程后,测量顶端向自由位置转换的力度。he sample switch is installed such that the direction of switch peration is vertical and upon depressing the stem in its center of the whole travel distance, the force of the stem to return to its ee position shall be measured.				
4	停止强度 Stop Strengt	开关垂直于操作 荷持续 1min。 Placing the sw vertical, and th direction of stel	itch such that t ien a static loa	on is dor	无机械和电气损坏 ere shall be no sign of nage mechanically and electrically.		
5	手柄拔出 强度 Stem Strength	度 的行程范围。 Placing the switch such that the direction of switch operation is 20N.min.					20N.min.
可焊性 (1) 焊接温度:245±5℃ 90%以上 Solder temperature : 245±5℃ Except for the ed					ept for the edge, the ting should cover a		
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С	USTOMER	•	CUSTOMER	S P/N	GYE'	S P/N	PF	RODUCT		REVISION
					KAN064	7-0342B	TAC	T SWITCH		А
	项目				试 验	条 件	1			要求
	ITEM				TEST CON	IDITIONS			RE	QUIREMENTS
	5、极限电气性能: ENVIRONMENTAL SPECIFICATION									
1	低温测试 Resistance low tempera	to ature						Contact ≤200mg 项目 3,4		
2	高温测试 Heat resista	ince	标准湿度的 Following in normal ter measurem (1) 温质 ten (2) 时间	measurements are made: (1) 温度: 80±2℃ temperature:80±2℃ (2) 时间: 96h ≤200mΩ 项目 3,4.1,4.2,4.3 Item 3,4.1,4.2,4.3					t resistance: Ω 4.1,4.2,4.3	
time: 96h 根据下面的测试要求进行 5 次循环的温度周期性测试,实验后样品应放在常温及标准湿度的环境中 1 小时后做性能测试。测试期间样品应保持干燥. After 5 cycles of following conditions, the sample shall be allowed to stand under normal temperature and humidity conditions for 1 h. and measurements shall be made. During the test water drops shall be removed. Temperature						t resistance: Ω 4.1,4.2,4.3				
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С	USTOMER	CUSTOMER'S F	P/N GYE	'S P/N	PRODUCT		REVISION
			KAN064	17-0342B	TACT SWITCH	1	А
	项目		试 验	条件		要求	
	ITEM		TEST CON	NDITIONS		RE	QUIREMENTS
4	湿温测试 Moisture resistance	标准湿度的环境 Following the following temper measurements (1) 温度: (1) 性mpera (2) 相对湿	60±2℃ ture: 60±2℃ 度: 90%~95% humidity:90% to 96h	Contact ≤200mg 项目 3,4			
5	硫化试验 Sulfuration resistance	标准湿度的环境 Following the normal temper measurements (1) H ₂ S气 H ₂ S gas (2) 时间: Time: 72 (3) 温度: 4	体浓度 :3ppm±1 concentration: 72h	Contact ≤200ms 项目 3,4			
6	盐雾试验 Salt Mist	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) (3) 时间: 8h±1h Time: 8h±1 hour					上没有腐蚀斑点 narkable corrosion be recognized in art.
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			CUSTOMER'S	P/N G	YE'S P/N	P	RODUCT		REVISION
					0647-0342B		CT SWITCH		A
1	限机械性能: INDURANCE	SPEC	IFICATION						
	项目			试	验条件				要求
	ITEM			TEST	CONDITIONS			RE	QUIREMENTS
	工作寿命 Operation								
1	WE		DC 12V,50 mA resistive load resistance≤200n					初值的±30% ng Force: alue±30% 4.1,4.2,4.3	
2	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.				z 互垂直的方 It	-	4.1,4.2,4.3 4.1,4.2,4.3		
	接条件: ERING CON	DITIO	NS:						
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.				王蕾蕾 14.03.05					



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С	USTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION
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	项目		推着	景条 件	
ITEM			Recommen	ded conditions	
7.2	回流焊时 Conditions for reflow		120sec max.(预 3 to 4 m 炉内通过	in.	260°C max. 3sec max. 230°C ————————————————时间 40s max.
137 HD		亡 小女工無田冷却は7			

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 380℃ max and 3 sec.max.

1.3 浸焊后,注意不要在顶部施加负荷。

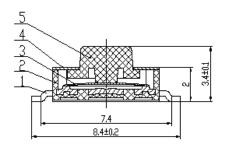
Right after switches were soidered; please be careful not to load to on the knobs of switches.

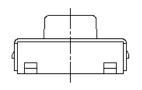
- 2 设计中应注意的事项(Design instructions):
- 2.1 印刷基板的安装孔尺寸参见产品图。
 Follow recommended P.W.B. piercing plan in outside drawing page.
- 3 注意点(Note):
- 3.1 注意不要施加超负荷的压力或晃动开关 Please be cautions not to give excessive static load or shock to swiches.
- 3.2 开关浸焊后,印刷基板注意不要叠放。 Please be careful not to pile up P.W.B.after 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 .

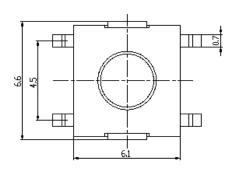
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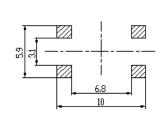


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		KAN0647-0342B	TACT SWITCH	А









P. C. B LAND PATTERN



General tolerance: ±0.1mm

NO.	NAME	MATERIAL	NATIONALITY	QTY.	FINISHING
1	TERMINAL	Brass	China	1	Silver plating
2	CASE	FR52	USA	1	Black
3	CONTACT	Phosphor bronze	Korea	1	Contact side silver plating
4	COVER	SUS	China	\mathbb{A}/\mathbb{A}	
5 STEM FR52 USA 1 RED					

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CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION	
		KAN0647-0342B	TACT SWITCH	А	

8. 生产工场: The country of origin

WENZHOU GANGYUAN ELECTRONICS CO.,LTD NO.392 NING KANG EAST ROAD OF YUE QING CITY, ZHE JIANG

9. 包装: Packing

产品规格	包装袋 PACKING BAG		内包装箱 INTER BOX		外包装箱 OUT BOX		净重	毛重
	规 格(Cm)	数量(pcs)	规 格(Cm)	袋数	_规_格(Cn	a) 盒数	(Kg)	(Kg)
KAN0647	14.5×14.5	1000	$21.6 \times 16.5 \times 4.8$	/3	44,5×35×	287 20 1		
W	ENZI	100	GANG					



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KAN0647-0342B

145 技术要求 1000PCS 尼龙袋 145

- 1. 线性尺寸的一般公差按GB/1804-C级。 2. 包装数量: 1000PCS/每袋, 3袋/每内包装盒, 20个内包装盒/每个外包装箱

