APPROVAL SPECIFICATIONS

CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION	
		KAN0610-0731B	TACT SWITCH	Α	

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 ℃~80 ℃ (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 $^{\circ}\text{C} \pm 2^{\circ}\text{C}$

相对湿度......65%±5%

Relative humidity......65%±5%

环境气压......86KPa~106Kpa

Air pressure......86KPa \sim 106Kpa

APPROVAL SPECIFICATIONS

CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION
		KAN0610-0731B	TACT SWITCH	A

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		7	试验条件		要习	
ITE	ΕM		TE	ST CONDITIONS		REQUIREMI	ENTS
1		接触电阻 act Resistance	在以 5V 10mA 的源 的电路中,以一个等于 Applying a static the center of the stem 5V DC 10mA or mo	rating force to	≤ 50n	nΩ	
2	ı	绝缘电阻 Insulation Resistance	在端子之间施加 D 之间底座、盖板的电阻 Measurement sha 100V DC potential, terminals and cover, fo	application of	≥100	МΩ	
3	Die	广质耐压 electric tage proof	在端子之间施加 2 250V AC (50HZ of terminals, for one	无击穿、 There s no breakdo flasho	should be own and		
APPROVE	APPROVE BY 黄蜀东 09.10.25 CHECKED BY 关 林 09.10.25 PRPARI						09.10.25

C	USTOMER	CUSTOMER'	S P/N GY	E'S P/N	PRODUCT		REVISION		
			KANO	610-0731B	TACT SWITC	Н	Α		
	项目		试验	条件			要求		
	ITEM		TEST CO	NDITIONS		RE	QUIREMENTS		
4	触点抖动 Bounce	按照正常使用时在导通和断开Lightly striking normal use (3 tested at "ON"	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 10V DC 10KΩ ¬¬浓器 Oscillograph "导通" "断开"						
	械性能: IANICAL SPI	ECIFICATION							
1	按力 Operating Force		1.6±0.5N						
2	五 最大行程 Full Travel Full Trave								
APP	APPROVE BY 黄蜀东 09.10.25 CHECKED BY 关 林 09.10.25 PRPARE BY 曹 盖 09.								

© TACTRONIC

<u> </u>	USTOMER	CUSTOMED'S D	CUSTOMER'S P/N GYE'S P/N PRODUCT									
	USTOMER	COSTOWERS	IN GIE	S F/IN	Г	RODUCT		REVISION				
			KAN061	I0-0731B	TAC	CT SWITCH	1	Α				
	项目		试 验 ه	(件			'	要求				
	ITEM		TEST CONE	DITIONS			REQUIREMENTS					
3	回弹力 Return Force	后,测量顶端向自 The sample switch operation is verticated to the whole travel	开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。 The sample switch is installed such that the direction of switch operation is vertical and upon depressing the stem in its center to the whole travel distance, the force of the stem to return to its free position shall be measured.									
4	停止强度 Stop Strength	荷持续 1min。 Placing the switch vertical, and then	开关垂直于操作方向放置,从操作方向向驱动件施加 30N 的静负 荷持续 1min。 Placing the switch such that the direction of switch operation is vertical, and then a static load of 30N shall be applied in the direction of stem operation for a period of 1 min.									
5	手柄拔出 强度 Stem Strength	的行程范围。 Placing the switch vertical, and then	开关垂直于操作方向放置,反方向实施最大操作力,并测量手材的行程范围。 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		除边缘外涂层应均匀覆盖 90%以上 Except for the edge, the coating should cover a minimum 90%									
APP	ROVE BY	黄蜀东 09.10.25 (CHECKED BY	关林 09	.10.25	PRPAR	E BY	曹 盖 09.10.25				

© TACTRONIC

С	USTOMER		CUSTOMER	S P/N	GYE'	S P/N	PF	RODUCT		REVISION		
					KAN061	0-0731B	TAC	T SWITCH		А		
	项目				试 验	条件				要求		
	ITEM				TEST CON	IDITIONS			RE	QUIREMENTS		
	限电气性能: RONMENTAL	SPEC	CIFICATION									
1	低温测试 Resistance low tempera	to ature	h before	Contact ≤200mΩ 项目 3,								
2	高温测试 Heat resista	ince	标准湿度的 set forth below humidity co (1) 温质 ten (2) 时间	forth below the sample shall be left in normal temperature and humidity conditions for 1 h before measurements are made: (1) 温度: 80±2℃ temperature:80±2℃								
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. 接触电阻: ≤200										t resistance: Ω ,4.1,4.2,4.3		
APP	ROVE BY	黄蜀	」 东 09.10.25	СНІ	ECKED BY	关 林 0	9.10.25	PRPARE	BY	曹 盖 09.10.25		

⊚ TACTRONIC

С	USTOMER	(CUSTOMER'S F	P/N GYE'	S P/N	PI	RODUCT	REVISION			
				KAN061	0-0731B	TAC	CT SWITCH		А		
	项目			试 验	条 件				要求		
	ITEM			TEST CON	IDITIONS			RE	QUIREMENTS		
4	湿温测记 Moisture resistanc)	标准湿度的环境 set forth below the humidity condi (1) 温度: tempera (2) 相对湿		the test	Contac ≤200ms 项目 3					
5	硫化试验 Sulfuratio resistanc	n	标准湿度的环境 set forth below the humidity condi (1) H2S与 H ₂ S gas (2) 时间: Time: 7 (3) 温度: 4	2h 40±2℃(90~95%	the test	Contac ≤200ms 项目 3					
6	temperature: 40±2℃(90~95%RH) 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 实验后的盐沉积物后水冲掉 After test, salt deposit shall be removed by running water.								金属件上没有腐蚀斑点 No remarkable corrosion shall be recognized in metal part.		
APP	ROVE BY	黄蜀	东 09.10.25	关 林 09.	10.25	PRPARI	E BY	曹 盖 09.10.25			

© TACTRONIC

APPROVAL SPECIFICATIONS										ONS	
С	USTOMER	(CUSTOMER'S	S P/N	GYE'	S P/N	Р	RODUCT		REVISION	
					KAN061	0-0731B	TAC	CT SWITCH		Α	
	限机械性能: NDURANCE	SPEC	IFICATION						,		
	项目				试验	条 件			要求		
	ITEM				TEST CON	IDITIONS			RE	QUIREMENTS	
	工作寿命 Operation	,	根据下面的测	削试要求	进行测试:		控船由	阻≤200mΩContact			
1			Measurement shall be made following the test set forth below: (1) DC 12V, 50mA 带负载								
2	振动 Vibra	ation	Vibr (2) 振幅 Amp (3) 振动 Dire dire (4) 测试		z 互垂直的方 pendicular		4.1,4.2,4.3 4.1,4.2,4.3				
	接条件:	DITIO	NC.								
SOLD	ERING CON	וטוווט	13: 								
			(1)	焊锡温	·件进行焊接 度: ≤350℃	Y					
7.4	手工焊接		(2)	连续焊	接时间: ≤3	3 s					
7.1	Hand solde	ering	Plea	ase pra	ctice accord	ing to below	conditio	ons:			
			` '		ng temperati ious solderir						
APP	ROVE BY	黄蜀	东 09.10.25	CHE	CKED BY	关林 09	.10.25	PRPARI	E BY	曹 盖 09.10.25	

APPROVAL SPECIFICATIONS

C board.				
60s max.				
260°C max.				
2 次以下				
2times max.				
, -				

焊接说明:

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.

1.1 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.

1.2 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.

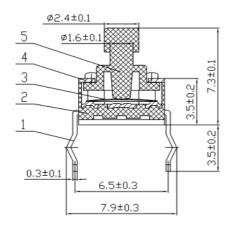
3.2 开关浸焊后,印刷基板注意不要叠放。

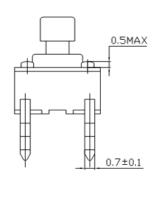
Please be careful not to pile up P.W.B.after switches were soldered.

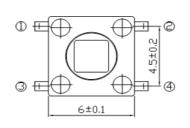
3.3 保管时尤其应注意避开高湿高温和有腐蚀性气体的环境。如需要长时间保存,请不要打开包装箱。

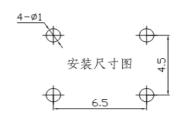
Preservation under high temperature and high high humidity or corrosive gas should be avoided Especially. When you need to preserve for a long period, do not open the carton.

APPROVE BY	黄蜀东 09.10.25	CHECKED BY	关 林 09.10.25	PRPARE BY	曹 盖 09.10.25
------------	--------------	------------	--------------	-----------	--------------









技术要求:

- 1、此产品技术要求详细参见《产品规格书》;
- 2、未注公差: ± 0.2mm;

环保要求: 符合公司WGY/EM431.001-2005标准



	V >	41. 11 D D	4	,				14 - Pm							
5		手 柄	A	RA107.	870. (037		增强	尼龙		PA66-G30		1	黑 色	
4		盖 板	A	RA ₁₀ 8.	010.0	010	冷轧钢板				SPCC-SD t=0.3		1	镀铜锡	
3		簧 片	8	WGY. 5	57.00)1	覆银铜箔			Т	F. A	g/C521	0	1	
2		底 座	A	RA ₁₀ 7.	810.02	3		增强	尼龙		PA6	6-G30		1	黑 色
1		接线片	A	RA107.	750.00	7	黄 铜				H65	Y $t=0$.	3	1	镀 银
序	号	部件名称		图	号		,	材 料 材料规格及牌号			牌号	数量	备 注		
标记	处数	更改文件号	签	> 字	日:	期			总		图			温州港	 據 电 子 有 限 公 司
设	计						材料				HRC			KAN061	.0-0731B型轻触开关
绘	图		슾				图	样标记	5			重量	比例		
批	准		审											A R	A ₁₀ 3. 604. 030
日;	期						j	共 1	页			第 1	页	111	