Title. TACT SWITCH

Product Model. KAN0610

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
黄蜀东	关 林	曹 盖

#### WENZHOU GANGYUAN ELECTRONICS CO., LTD.





Color	Black	Red	White	Blue	Yellow	Green	Gray	FrenchGray	Red brown
Code	1	2	3	4	5	6	7	8	9

#### 3. Operating force: An English letter expresses it, unite: Newton (N),as chart 3 shows:

force Code Sp	Dperating ec	Press force(N)	Return force
A	1.0	1.0±0.3	0.2min
В	1.6	1.6±0.5	0.4min
С	2.6	2.6±0.5	0.6min
D	1.3	1.4±0.4	0.2min
E	2.0	2.0±0.5	0.4min
F	0.7	0.7±0.3	0.1min
J	3.0	3.0±0.6	0.6min
K	5.0	5.0±1.0	1.0min

Examples: "KAN0610-0731B" denotes the tact switch with 6×6 base, the height is7.3mm,the stem is black , the operating force is 1.6N.

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	INGTUAN				
CUSTOMER	CUSTOMER'	S P/N GYE	'S P/N	PRODUCT	REVISION
		KAN	10610	TACT SWITCH	A
This specificat         1.3       工作温度范围         Operating Tem         -20℃~70℃         -20℃~70℃         -20℃~70℃         -20℃~70℃         1.4       贮藏温度范围         Storage Tempe         -30℃~80℃         -30℃~80℃         1.5       测试条件         Test Condition:         在没有其它特定         Unless otherw         常温         Normal temper         标准湿度         Normal air pre-         在制造过程中,         If any doubt ar         温度         石動造度         Unick         Kata         Normal air pre-         在制造过程中,         If any doubt ar         温度         Temperature         相对湿度         不均气压         环境气压	F机械式轻触开关的 ion is applied to the perature Range (在标准大气压、标准 Normal humidity, no 在标准大气压、标准 Normal humidity, no s 定的条件下,应该在	requirements for TA ialage (A)	JGYU I试和测量: hall be made in th % ~85%	(MECHANICAL CO AN CO he following standar	),LTD
APPROVE BY	黄蜀东 09.10.25	CHECKED BY	关林 09.10.2	25 PRPARE BY	/ 曹 盖 09.10.25
					Page 2 of 11



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CUSTC	MER	CUSTOME	R'S P/N	GYE	'S P/N	PRODUCT	REVISION			
				KAN	V0610	TACT SWITCH	A			
<ol> <li>2.1 外观: Appear</li> <li>2.2 结构尺 Style ar</li> <li>3 操作形 Type of</li> <li>4 开关结 Contact</li> <li>2.5 开关工 Ratings</li> <li>3. 电气性能</li> </ol>	d specificat 应无影响、 ance: Ther d 和安装尸 d dimensio 式: 有触句 f actuating: f	降低产品性能 re should be no 己寸:应符合装 on: shall confor 觉反应的操作 Tactile feedbac 路单输出(具体的 ent: 1 pole, 1 th arrangement a DC 12V, 50mA 50mA (effective	defects tha 配图要求; m to the ass ck. http://defected.com/ http://www. are given in to (有效值)	semble drav	wings.	UAN C	co.,LTD			
项					验条件		要求 REQUIREMENTS			
1	ITEMTEST CONDITIONS1在以 5V 10mA 的直流电源或不低于 1KHz 的交流电源 的电路中,以一个等于 2 倍按力的静负荷施加于手柄中心 Applying a static load of 2 times operating force to the center of the stem, measurements shall be made by 5V DC 10mA or more than 1KHZ AC small-current contact resistance meter.						≤100mΩ			
2	Insu	ilation stance 1	之间底座、盖 Measure	板的电阻值 ement shall potential, a	的条件下, 测量端子 owing application of nals, and across	$\geqslant 100 M \Omega$				
介质耐压       在端子之间施加 250V AC(50HZ 或 60HZ)/1min         3       Dielectric         voltage proof       250V AC (50HZ or 60HZ) shall be applied across terminals, for one minute.						无击穿、无飞弧 There should be no breakdown and				
3		e proof	terminals	s, for one m	inute.		flashover			



С	USTOMER	CUSTOMER'	S P/N	GYE'	S P/N	Р	RODUCT	ODUCT REVISION	
				KAN	0610	TAC	CT SWITCH	4	A
	项目		 	试验条					要求
	ITEM		I	EST COND	THONS			RE	QUIREMENTS
	械性能: IANICAL SPE(	CIFICATION							
1	按力 Operating Force	量开关导通所 Placing the sw vertical and th center of the st	直于操作方向放置,在开关驱动件顶端中心逐渐施力,测 导通所需的最大力度。 g the switch such that the direction of switch operation is I and then gradually increasing the load applied to the of the stem, the maximum load required for the switch to o a stop shall be measured.					re	efer to chart 3
2	最大行程 Full Travel	开关驱动件顶端 Placing the sw vertical and the the center of th	操作方向放置,以一个等于 2 倍按力的静负荷施加在 预端中心,测量顶端移动的距离。 switch such that the direction of switch operation is then applying static load of 2times operating force to the stem; the travel distance for the switch to come all be measured.						0.25±0.1mm
APP	ROVE BY	黄蜀东 09.10.25	CHEC	CKED BY	关林09.	10.25	PRPAF	RE BY	曹 盖 09.10.25



			<u> </u>					
CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION				
		KAN0610	TACT SWITCH	I A				
项目		试验条件		要求				
ITEM		TEST CONDITIONS		REQUIREMENTS				
回弹力 Return Force 3	开关垂直于操作方向; 后,测量顶端向自由 The sample switch is operation is vertical a to the whole travel di	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 o the whole travel distance, the force of the stem to return to its free position shall be measured.						
4 停止强度 Stop Strengt	荷持续 1min。 Placing the switch su vertical, and then a	改置,从操作方向向驱动件 ach that the direction of so static load of 30N shall ration for a period of 1 mir	witch operation is be applied in the	无机械和电气损坏 There shall be no sign of damage mechanically and electrically.				
手柄拔出 强度 Stem Strength	的行程范围。 Placing the switch su 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	Measurements shall (1) 焊接温度:245±5 Solder temperatu (2) 浸入时间:2s±0.5 Immersion time: 对于其它步骤参	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:2s±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						
APPROVE BY	黄蜀东 09.10.25 CH	ECKED BY 关林09.	10.25 PRPAR	EBY 曹盖 09.10.25				



С	USTOMER	(	CUSTOMER	'S P/N	GYE'	S P/N		PRODUCT		REVISION
					KAN	0610	TA	CT SWITCH	1	A
	项目				试验	条 件				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 ture	标准碰段的 Following ti normal tem measureme (1) 温度 Tem (2) 时间	环境中 he test nperatur	Contac ≤200m 项目 3					
2	高温测试 Heat resista	nce	标准湿度的 forth below humidity co (1) 温度 tem (2) 时间	temperature: $80\pm2^{\circ}$ Item 3,4.1,4.2						
3	温度周期性; Change temperatu	of	样品应放在 试期间样品 After 5 cyc allowed to conditions	Time: 960 下面的测试要求进行 5 次循环的温度周期性测试,实验后 应放在常温及标准湿度的环境中 1 小时后做性能测试。测 间样品应保持干燥. 5 cycles of following conditions, the sample shall be red to stand under normal temperature and humidity itions for 1 h. and measurements shall be made. During est water drops shall be removed. $\frac{1}{10\pm 2^{\circ}C} \qquad 2(hour) \\ -10\sim 65^{\circ}C \qquad 1 \\ 65\pm 2^{\circ}C \qquad 2 \\ 65\sim -10^{\circ}C \qquad 1 \\ \hline \end{array}$						阻: ≤200mΩ t resistance: Ω 4.1,4.2,4.3 4.1,4.2,4.3
APP	ROVE BY	黄蜀	东 09.10.25	CHE	CKED BY	关林(	9.10.25	PRPAR	EBY	曹 盖 09.10.25



С	USTOMER	CUSTOMER'S P	/N GYE'	S P/N	PRODUCT		REVISION
			KAN	0610	TACT SWITC	н	А
	项目		试 验	条件			要求
	ITEM		TEST CON	DITIONS		RE	QUIREMENTS
4	湿温测试 Moisture resistance	标准湿度的环境 forth below the humidity condit (1) 温度:6 tempera (2) 相对湿/	ture: 60±2℃ 度: 90%~95% numidity:90% to	接触电 Contac ≤200m 项目 3			
5	硫化试验 Sulfuration resistance	标准湿度的环境 forth below the humidity condit (1) H2S 气 H <sub>2</sub> S gas (2) 时间: 7 Time: 72 (3) 温度: 4		接触电 Contac ≤200m 项目 3			
6	盐雾试验 Salt Mist	<ul> <li>(1)温度: 35</li> <li>temperat</li> <li>(2)盐溶液浓/ salt solut</li> <li>(3)时间: 8h</li> <li>Time: 8h±</li> <li>实验后的盐沉移</li> </ul>	all be checked a ℃±2℃ ure: 35℃±2℃ 度: 5±1%(质量 ion : 5±1%(solid ±1h :1 hour	corrosi	上没有腐蚀斑点 No remarkable ion shall be iized in metal part.		
APP	PROVE BY 章	黄蜀东 <b>09.10.25</b> (	CHECKED BY	关林09.	10.25 PRPA	RE BY	曹 盖 09.10.25



С	USTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION	
			KAN0610	TACT SWITCH	I A	
	限机械性能: INDURANCE SP	ECIFICATION				
	项目		试验条件		要求	
	ITEM		TEST CONDITIONS		REQUIREMENTS	
1	工作寿命 Operation life	<ul> <li>(1) DC 12V, 50 DC 12V, 50 r</li> <li>(2) 按动速率: 1 Rate of ope</li> <li>(3) 按力: 按力 Operating F</li> <li>(4) 平均无故障</li> <li>A</li> <li>B</li> <li>C</li> <li>D</li> <li>E</li> <li>F</li> <li>J</li> <li>K</li> </ul>	be made following the termA 帯负载 mA resistive load 次/秒 ration: 1 times/s 的 1.5 倍 Force: Operating Forc 寿命: / Average fault-free 月.6 10000 次 1.6 80000 次 1.3 100000 次 2.0 80000 次 0.7 100000 次 3.0 60000 次	e <mark>1.5double</mark> life	接触电阻≤200mΩContac resistance≤200mΩ 按力: 初值 的 ±30% Operating Force: initial value±30% 项目 3,4.1,4.2,4.3 Item 3,4.1,4.2,4.3	
2	振动 Vibratior	<ul> <li>(1) 振动频率范 Vibration f</li> <li>(2) 振幅(峰一 Amplitude:</li> <li>(3) 振动方向: /</li> <li>Direction of direction in</li> <li>(4) 测试时间:</li> </ul>	be made following the te 语: 10~55~10Hz requency range: 10 to 55 峰): 1.5mm	5 to 10Hz 三个相互垂直的方 ally perpendicular	项目 3,4.1,4.2,4.3 Item 3,4.1,4.2,4.3	
	接条件:					
SOLD	ERING CONDIT					
7.1	手工焊接 Hand solderin	(1) 焊锡温 (2) 连续焊 Please pra (1) Solderi	条件进行焊接: 度: ≤350℃ 接时间: ≤3 s actice according to below ng temperature: 350℃ uous soldering time: 3 s l	Max.		
ΔΡΡ	PROVE BY 黄		CKED BY 关林09.		E BY 曹盖 09.10.25	

Cl	JSTOMER	CUSTOMER'	S P/N	GYE'S P/N		Р	RODUCT	REVISION
			KAI	N0610	TAC	CT SWITCH	А	
	自动浸焊	项	项目 Items			条	件 Condition	
	Conditions f		小附着量 built-up		不附着于零部 Mounting sur		面的程度 puld not be coated w	vith flax
							周围温度 100℃ max e of the soldered su	
7.2			且度时间 ating tim	20			60s max.	
		焊接温 Solde	a度 ring tem	perature	IGYI	JA	260°C max.	LTD
	WE	二焊接浪 Continuou	表时间 s dipping			5s max.		
		焊接 <i>街</i> Number	erina			2 次以下 2times max.		
	焊接说明:		01 0014	Sinig				
		浸焊后,注意不要	要用溶剂	清洗。				
			-				ches with solvent.	
		<b></b> 用烙铁的情况下,					°	
		case of using sold 后,注意不要在顶	-	-	onditions shall	be 380	℃ max and 3 sec.n	lax.
					be careful not	to load	to on the knobs of s	witches
	•	中应注意的事项([		-				
	2.1 印刷	基板的安装孔尺寸	参见产品	7图。				
		recommended P.	W.B. pie	ercing plan	in outside dra	wing pa	ige.	
	3、注意,	. ,						
		不要施加超负荷的 e be cautions not f			tatia laad ar a	hook to	owichoo	
		曼焊后,印刷基板	•				Swiches.	
		be careful not to			switches wer	e solder	red.	
			• •				夏长时间保存,请不要	五 大
	打开包	装箱。						
		-				-	corrosive gas should	
	avoide	a Especially . Wh	en you r	need to pre	serve for a lo	ng perio	d ,do not open the c	arton.
APPF	ROVE BY	黄蜀东 09.10.25	CHE	CKED BY	关林09.	10.25	PRPARE BY	曹 盖 09.10.25





CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION			
		KAN0610	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 PAC	KING BAG	内包装箱 INTEF	R BOX	外包装箱 OU	Т ВОХ	净重	毛重
KAN0610	规 格(Cm)	数量(pcs)	规 格(Cm)	袋数	规 格(Cm)	盒数	(Kg)	(Kg)
073	19×19.5	1000	$21.6 \times 16.5 \times 4.8$	$\nabla^2$	44.5×35×28	20	10.4	12.686
WENZHOU GANGYUAN CO., LI B								

APPROVE BY	黄蜀东 09.10.15	CHECKED BY	关林 09.10.15	PRPARE BY	曹 盖 09.10.15