

文件编号: DGKD/JS-SS-163

版 次: B/1

# SPECIFICATION

CUSTOMER NAME 客户名稱: \_\_\_\_\_

CUSTOMER PARTS 客户編號: \_\_\_\_\_ 3310006

DESCRIPTION 產品系列: \_\_\_\_\_ VERTICAL SLIDE SWITCH

KWAN DA MODEL NO 型號: \_\_\_\_\_ SS12D16-GDN5 (G)

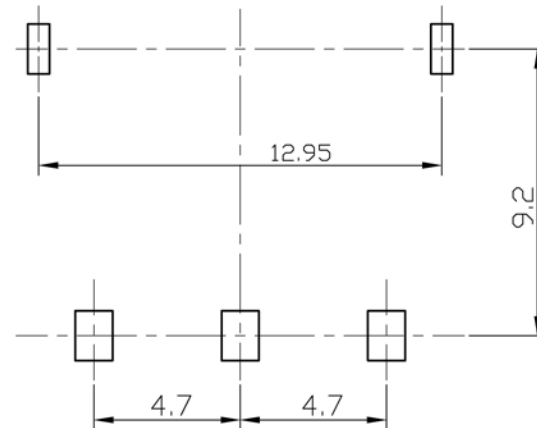
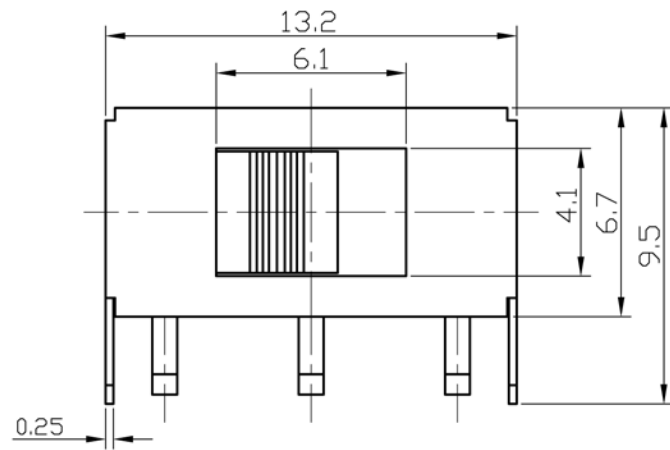
KWAN DA PARTS NO 料號: \_\_\_\_\_ 4010112D1602G

CUSTOMER MODEL NO 客户型號: \_\_\_\_\_

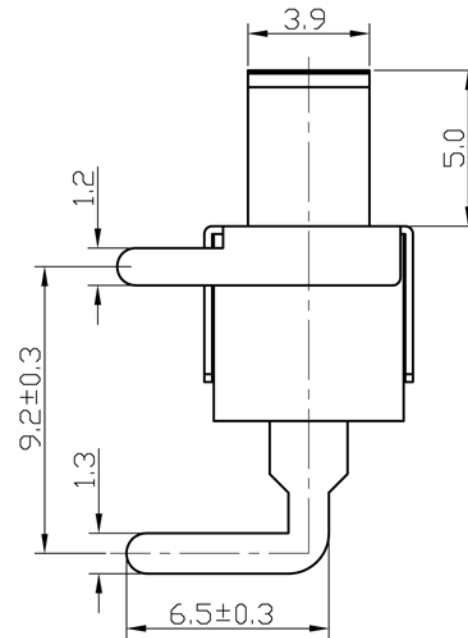
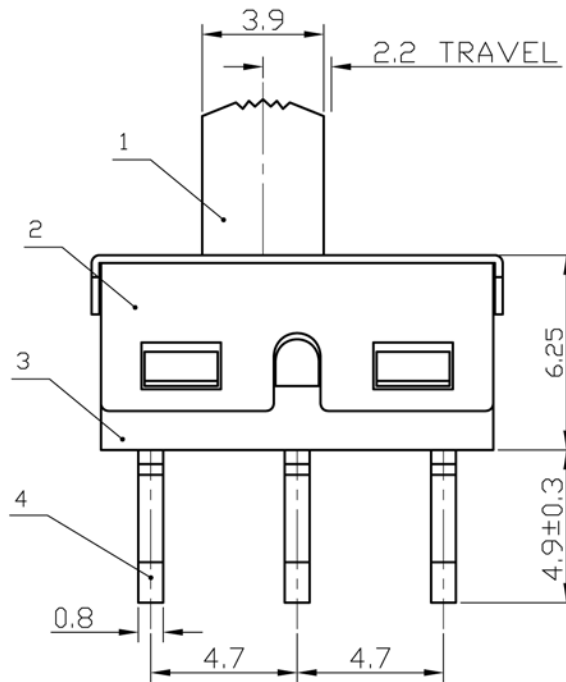
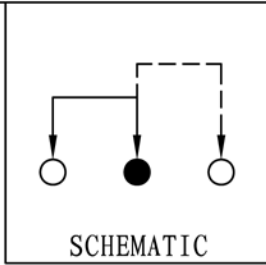
CUSTOMER PARTS NO 客户料號: \_\_\_\_\_

CUSTOMER APPROVED 客户承認	
<input type="checkbox"/> APPROVED 接受	<input type="checkbox"/> REJECTED 不接受
CHECKED BY 審核:	APPROVED BY 承認:
DATE 日期:	DATE 日期:

DRAWN BY 制訂	CHECKED BY 核對	APPROVED BY 審批	DESIGN DEPARTMENT 設計單位	RoHS PRODUCT RoHS 产品
陳鎮銘	侯美萍	周麗瓊		
DATE: 2011-10-29	DATE: 2011-10-29	DATE: 2011-10-29		



P.C.B LAYOUT



TITLE : VERTICAL SLIDE SWITCH					TOLERANCE		ANGLE TOL				
MODEL : SS12D16-GDN (G)											
UNIT : MM	DWN.	陈镇铭	DATE	2011-10-29	$\leq 1.5\text{mm} \pm 0.1$ $> 1.5\text{mm} \pm 0.2$ $> 10\text{mm} \pm 0.3$	$\pm 2^\circ$	7	BAR	NYLON	1	BLACK
SCALE : 3 : 1	CHK'D	侯美萍	DATE	2011-10-29			6	SPRING	STEEL WIRE	1	NATURE
VERSION	01	APPD.	周丽琼	DATE			2011-10-29	5	CONTACT CLIP	COPPER	1
							4	TERMINAL	COPPER	3	Ag PLATED
							3	CASE	NYLON	1	BLACK
							2	FRAME	SUS	1	NATURE
							1	KNOB	NYLON	1	BLACK
							NO.	PART NAME	MATERIAL	QTY.	FINISHING

# SPECIFICATION

## 承認書

文件編號	DGKD/JS-SS-163	版本	B / 1	頁碼	共 3 頁, 第 1 頁
DESCRIPTION	產品系列: VERTICAL SLIDE SWITCH			DRAWN BY	制訂: 陳鎮銘
MODEL NO	產品型號: SS12D16 (G)			CHECKED BY	核對: 侯美萍
1. RATING	額定值: 0.3A 30V DC				
2. FUNCTION	接觸型式: 1P2T			APPROVED BY	審批: 周麗瓊
3. TIMING	時間特性: NON-SHORTING				
4. ELECTRICAL CHARACTERISTICS 電氣性能規格:					
ITEM 項目		TEST CONDITIONS 測試條件		PERFORMANCE 性能	
4.1	CONTACT RESISTANCE 接觸電阻	MEASURED AT SMALL CURRENT (100 mA OR LESS) 1000HZ 在微小電流 (100 mA) 以下測試		30mΩ MAX. 30 毫歐以下。	
4.2	INSULATION RESISTANCE 絕緣電阻	APPLY A VOLTAGE OF 500V DC SHALL BE APPLIED FOR 1 MIN AFTER WHICH MEASUREMENT BE MADE: (1) BETWEEN CONDUCTORS NOT TO BE CONTACT (2) BETWEEN INDIVIDUAL TERMINALS AND FRAME 輸入 500V DC 電壓 1 分鐘, 按以下接觸方法測試: (1) 不接觸的插腳之間 (2) 插腳與外殼之間		100MΩ MIN. 100 兆歐以上。	
4.3	DIELECTRIC STRENGTH 耐電壓	AC 500V rms (50-60HZ) FOR 1 MIN TRIP CURRENT: 0.5mA (1) BETWEEN CONDUCTORS NOT TO BE CONTACT. (2) BETWEEN INDIVIDUAL TERMINLS AND FRAME 輸入 AC 500V (50-60HZ) 電壓, 1 分鐘感度電流為 0.5mA, 按以下接觸方法測試: (1) 不接觸的插腳之間 (2) 插腳與外殼之間		WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC. 沒有絕緣破壞等異常。	
5. MECHANICAL CHARACTERISTICS 機械性能規格:					
ITEM 項目		TEST CONDITIONS 測試條件		PERFORMANCE 性能	
5.1	OPERATING FORCE 作動力	MEASUREMENT SHALL BE MADE AT THE NEAREST POINT OF THE COMPONENT OR AT THE POINT 3mm FROM THE TIP OF THE ACTUATOR (KNOB). 在距離膠柄前端 3mm 作測定點。		300±150gf	
5.2	TERMINAL STRENGTH 端子強度	A STATIC LOAD OF 500gf SHALL BE APPLIED TO THE TERMINAL FOR 15 SEC. IN ANY DIRECTION. 在插腳前端任意一個方向加 500gf 力度測試, 時間為 15 秒。		ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED WITHOUT DAMAGE OR EXCESSIVE LOOSENESS OF TERMINALS. 在插腳中沒有裂開、鬆動異常, 滿足於機械, 電器性能。	

# SPECIFICATION

## 承認書

文件編號	DGKD/JS-SS-163	版本	B / 1	頁碼	共 3 頁，第 2 頁
ITEM 項目		TEST CONDITIONS 測試條件		PERFORMANCE 性能	
5.3	DISPLACEMENT OF ACTUATOR (KNOB) 柄 強 度	A STATIC LOAD OF 9.8 N (1kgf) SHALL BE APPLIED TO THE TOP OF THE ACTUATOR (KNOB) AND THEN DISPLACEMENT SHALL BE MEASURED TO THE DIRECTION OF THE ARROW. 在柄的前端施加9.8N (1kgf)的力，位移應沿印記的方向上測定。		THE LEVER SHALL HAVE NO SERIOUS DEFORMATION AND FUNCTION IS NORMALLY. 柄部無嚴重變形，可以正常工作。	
6. ENDURANCE CHARACTERISTICS(耐久性):					
ITEM 專案		TEST CONDITIONS 測試條件		PERFORMANCE 性能	
6.1	MECHANICAL-LIFE TEST 機械壽命	SWITCH SHALL BE SUBJECTED TO 10,000 CYCLES AT A SPEED OF 15~18 PER MINUTE WITHOUT LOAD. 開關在無負荷的條件下以每分鐘 15~18 回的速度進行 10,000 次的測試。		1. CONTACT RESISTANCE: $\leq 300m\Omega$ 2. INSULATION RESISTANCE: $\geq 50M\Omega$ 3. UNDER A VOLTAGE 750V AC (50Hz) WITHOUT DESTROYING AND LOSSING. 4. OPERATING FORCE $\pm 50\%$ SPEC. 5. NO DEFORMATION AND LOOSENESS 1. 接觸電阻: $\leq 300$ 毫歐 2. 絕緣電阻: $\geq 50$ 兆歐 3. 施加 50Hz750V 的交流電壓無擊穿和飛孤現象。 4. 作動力變化範圍規格值 $\pm 50\%$ 5. 開關外觀無異常，鉚合部分應牢固，緊固部分應無鬆動。	
6.2	SOLDERABILITY TEST 可焊性試驗	THE TOP OF THE TERMINALS SHALL BE DIPPED 2mm IN THE SOLDER BATH OF $230\pm 5^{\circ}C$ FOR $3\pm 0.5$ SECONDS. 端子頂部被浸入錫焊池中 2mm 深，溫度為 $230\pm 5^{\circ}C$ ，時間為 $3\pm 0.5$ 秒。		(1) THE AREA OF SOLDERABILITY SHOULD BE OVER 75%. 焊接面積要有 75%以上。	
6.3	RESISTANCE TO SOLDERING HEAT TEST 耐焊性試驗	SOLDER BATH METHOD: SOLDER TEMPERATURE $250\pm 5^{\circ}C$ IMMERSION TIME $3\pm 0.5$ SEC IMMERSION DEPTH UP TO THE SURFACE OF THE BOARD THICKNESS OF PRINTED WIRING BOARD 1.6mm DIMENSIONS OF COMPONENT HOLES IN THE PRINTED WIRING BOARD SHALL BE ACCORDANCE WITH THOSE SPECIFIED IN THIS SPECIFICATION. 焊爐焊接的時間溫度控制在 $250\pm 5^{\circ}C$ ，過爐時間為 $3\pm 0.5$ 秒，於(基板)厚度 1.6mm.		WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS. ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. 本體無變形，能滿足於機械、電器性能。	
6.4	COLD TEST 耐冷試驗	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF $-25\pm 3^{\circ}C$ FOR 48 HOURS. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE WITHIN 1 HOUR. 開關放置在溫度 $-25\pm 3^{\circ}C$ 中 48 小時後，再放置常溫常濕中 1 小時來進行測試。		THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. 外觀無異常，滿足於機械、電器性能。	
6.5	HEAT TEST 耐熱試驗	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF $70\pm 2^{\circ}C$ FOR 48 HOURS. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE. 開關放置在溫度 $70\pm 2^{\circ}C$ 中測試 48 小時後，再放置正常室溫中 1 小時來測定。		THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. 外觀無異常，滿足於機械、電器性能。	



## 環保產品 SGS 檢測報告對照表

序號 NO	產品型號 MODEL NO	零部件名稱 PART NAME	零部件材料 MATERIAL	表面狀態 FINISHING	SGS 報告編號 SGS REPORT NO	檢測數據 DATUM (ppm)						檢測日期 DATE	檢測結果 RESULT	備註 REMARK
						Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs			
1	SS12D16 (G)	KNOB	NYLON	BLACK	CANEC1004590707	14	N. D.	N. D.	N. D.	N. D.	N. D.	20101109	PASSED	
		FRAME	SUS	NATURE	CANEC1005124102	N. D.	N. D.	N. D.	Negative	/	/	20101214	PASSED	
		CASE	NYLON	BLACK	CANEC1004590707	14	N. D.	N. D.	N. D.	N. D.	N. D.	20101109	PASSED	
		TERMINAL	COPPER	Ag PLATED	CANEC1004590702	N. D.	N. D.	N. D.	Negative	/	/	20101109	PASSED	
		CONTACT CLIP	COPPER	Ag PLATED	CANEC1004590702	N. D.	N. D.	N. D.	Negative	/	/	20101109	PASSED	
		SPRING	STEEL WIRE	NATURE	CANEC1004590701	N. D.	N. D.	N. D.	Negative	/	/	20101109	PASSED	
		BAR	NYLON	BLACK	CANEC1004590707	14	N. D.	N. D.	N. D.	N. D.	N. D.	20101109	PASSED	

N. D. =Not Detected

Date: 2011 年 10 月 29 日