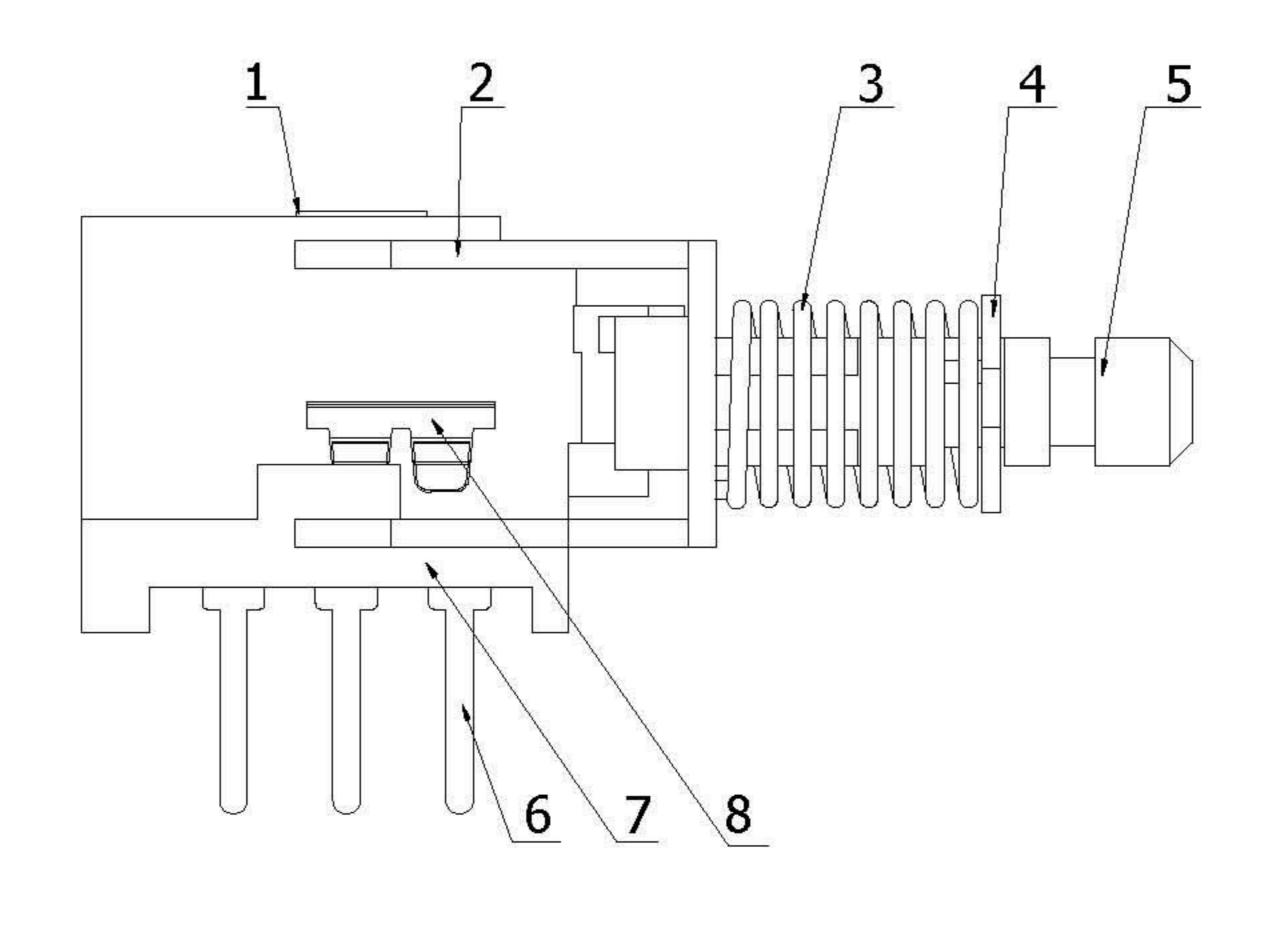
SWEETA® SENSE. RULE. TECHNOLOGY.		SWEETA PROD	UCTS CORF	PORAT	ION	
SWITCH TYPE	M ni at ur	e push button Switches	MODEL NO.	SPA-120	L-22-E	3
1. Functional sp	ec.			176		
1.1 Rated Voltag	ge	DC30V	1.6 Free Position	ı		
1.2 Rated Curre	nt	0. 1A	1.7 Operating Po	osition		
1.3 Contact Resi	istance	≤ 50mΩ (Initial value)	1.8 Position Trav	vel	2.0±0). 2mm
1.4 Operating Fo	orce	230± 50gf	1.9 Return Force	2		
1.5 Bounce Tim	е		1.10	3		
2.Reliable Ratin	g			136		
2.1 Mechanical	Life	30,000 CYCLES	2.5 Soldering Te	emper	See s	heet 5
2.2 Electrical Li	fe	10,000 CYCLES	2.6 Operating	Temper	- 10°	C - +60° C
2.3 Insulation R	esistance	$\geq 100M\Omega$ DC250V(Initial value)	2.7 Shi ppi ng	Temper	<85%₽	
2.4 Withstand V	70 (400)	AC250V 1 minute(Initial value)		idity Used		
B. Dimension D	rawing					
	14.3	10.8		COI	M	
9.1	2.5 2.5 2	1.0 1.0 ====== 0.7 0.7 0.6 6.2	2-\$2.8	26.0		<u>6</u> <u>7</u> <u>9</u> <u>1</u>
		P.C.B HOLE C	2.5 1			

Revision	Des	scription		Date	Revisor
Drawing No.		5	A/ 0	Tolerance	± 0. 2
Drawing Model.	SPECIFICATION OF	STANDARD TYPE		Unit	nma
Prepared	Reviewed	Approved		Effective date	20060519

SERIES		AND THE PROPERTY OF THE PROPER	E PUSH BUTTON (SPA-120L)	Issuance date			20051101
Document N	o.	DIC	PE909-012	Edition	В	Page	Page 1 of 5
NO.	Part Name		Q'TY	Generic Class		S	GS report No.
1	Case		1	PBT+GF30%(N)		GZ06	010018 7 5/CHEM
2	Iron b	racket	1	SPCC		GZS	CR051186928/LP
3	Spi	ring	1	SUS304		GZ06	503039055/CHEM
4	Ri	ing	1	SPCC		GZS	CR051186928/LP
5	Stem		1	POM		C	E/2006/42 7 64
6	Tern	ninal	6	C2680		CE/2005/B2320	
7	Base		1	PA66		CE/2005/A1917	
8	C	lip	2	C5210		GZSCR050746889/L	

Structure chart:



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1. General:

1.1 Switch rating: DC 30V, 0.1A

1.20perating temperature range -10°C~60°C

1.3 Preservative temperature range -20°C~70°C

1.4 Appearance Markings and dimensions Refer to individual product drawing

1.5 Standard conditions

Unless otherwise specified, the test and measurements shall be carried out as follows:

Ambient temperature: 5~35°C Relative humidity: 45~85% Air pressure: 86~106kpa

However, if doubt arises on the decision based on the measured values under the above mentioned conditions, the following conditions shall be employed.

Ambient temperature: 20~2°C Relative humidity: 60±5%RH

Air pressure: 86~106kpa

2.Performance

2.1 Electrical characteristics

	Items		Test conditions						Criteria	
2.1.1	Contact resistance	measure Measur precisio	applying a static load twice the operating force to the stem, neasurements shall be made between the terminals. Measurement shall be made with a contact resistance meter for $2m\Omega$ recision under the condition which a voltage of DC 5V and a current of 1.1A shall be applied between the terminals.						50mΩ max	and decided in the control of the co
2.1.2	Insulation resistance	the term	OC 250V voltage is applied between each pair of terminals and between the terminal and the metal frame for one minute. Measurement shall be nade with a test instrument of insulation resistance under the condition which a voltage of DC 250V is applied between the terminals.						100MΩ min	Ĺ
2.1.3	Dielectric withstand in voltage		AC 250V(50Hz or 60Hz) shall be applied across terminals and frame for one minute.					No damage parts arcing breakdown etc.	to or	
PAGE	MARK R	EVISION	ISION DATE DESIGN CHECK					APPROVAL		

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Docume	ent No.	DIC/PE909-012	Edition	В	Page	2	Page 3 of 5
	Items	Test	conditions				Criteria
3.Mech	anical characteristi	cs				As-	
3.1.1	Operation force	Placing the switch such that to side, and then gradually increase maximum load for the stem to measured.	sing the load app	lied to the	stem, the	Re	fer to individual drawing.
3.1.2	Terminal strength	A static load of 500gf shall be 30 sec. in any direction.	applied to the tip	of the te	minal for	shall b	ical characteristics be satisfied without ge or excessive ness of terminals.
3.1.3	Displacement of actuator(Knob)		pplied to the ten	minal for 1	5 Sec. In	seriou	ever shall have no as deformation and ction is normally.
4.Clima	tic characteristics	<u></u>				L	
4.1	Gold test	 (1) Temperature: -30±2°C (2) Duration of test: 96 hours (3) Take off a drop water (4) Standard condition after test 	st : 1 hour			After	test: ct resistance:
4.2	Heat test	 (1) Temperature: 80±2°C (2) Duration of test: 96 hour (3) Standard conditions after te 	est : 1 hour			NO 2	1Ω max 2.1.2 to 2.1.3 and to 3.1.2 shall be
4.3	Humidity test	 (1) Temperature :60 ± 2°C (2) Relative humidity : 90~95% (3) Duration of test : 96 hours Take off a drop water Standard 		est: 1 hour			
5. solde	ring characteristics	8					
5.1	Hand soldering	Use a soldering iron of approximately 3 seconds 1time	FACE TRANSPORT IN WORLD		380°C	of so mining surface There in ap	w uniform coating older shall cover a num of 90% of the se being immersed. shall be no defects pearance or in the hanical functions.

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Items		Test condition	S	Criteria	
6. Durability chara	cteristic			7	
Mechan 6.1 al life	nic (2)) Without loading) Operating speed: 60 cycles/) Push force: maximum value twice) Life: 30,000 cycles		After test: (1) Contact resistance: 1 ohm Max. (2) Insulation resistance: 10M ohm Min. (3) Bounce: 5m sec. Max.	
Electric 1ife	cal (2)	Operating speed: 30 cycles/			
7.Salt Mist	1			T T	
7.1 Salt M	Sa Th Te Te Th Th (1) (2)	st equipment: NSS Ilt Solution: 5±1%(Solders by the PH of salt: 6.5~7.2 Ist temperature: 35±2°C Ist pressure: 1 Kgf/cm*cm Interpretature of pressure barr Interpretature of pressure barr Interpretature of pressure barr Interpretature of the product Interpretature of the product with of the product of the	el: 47±2°C d after following test	angle and pressing border line)	
8. Quality record	ls of deliv	vered goods			

8.1 Package boxes or package bags should be attached labels or identifiers of Model No., Quantity and Quality Pursuing No.

8.2 There shall be quality records of inspection and test in package boxed.

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9. Application Notes:

- 9.1 Avoid storing the products in a place at high temperature, high humidity and in corrosive gases.
- 9.2 Avoid excessive force when inserting into P.C.B so as to avoid deformation of terminals.
- 9.3 Influence for the characteristics by something dust or foreign articles. There is a possibility something dust or foreign articles put into click of brush plate and it should cause abnormal rotation feeling.
- 10. Incoming inspection declaring:
- 10.1 You must comply with the following principles in the process of the incoming inspecting and using our products, if not, we won't be liable for any damages from it.
- 10.2 The requirement of the incoming inspection must meet the product's specification that have been affirmed and signed by you. If the following things appear in the process of the incoming inspection, the use is restricted, please feed back us in time; we will take back of all.
- 10.3 The products that are attached or stickled by the unqualified labels;
- 10.4 In the process of the incoming inspection, the following main function parameters must be checked and they must meet the specification. If the sum the badness rate is more than 1% in the process, the use is restricted, please feedback us in time, we will take back of all.
 - (1) Operating Force;
- (2) Operating Position;
- (3) Initial Contact Resistance;
- (4) Soldering ability;
- (5) Soldering temperature;
- (6) Action of function;
- 10.5 If the serious packaging disrepair of products appears in the process of the incoming inspection, please refuse accepting them and return them to us directly.
- 10.6 Operating strength: the max pressing force is 3Kgf in the side direction with the up-surface of stem; the max pulling force is 3Kgf.the badness product's damage and function destroying for above all, we won't be liable for it.
- 10.7 For switches is a multi-function parameters part in our company, which are assembled by many components, the max permitting badness rate is 500PPM in producing process. If the damages are for our producing process badness aim, we won't be liable for it.
- 10.8 If badness rate of the main function parameters which is more than 500PPM or the sum of rate is more than 1500PPM appears in your producing process, please stop using them immediately and feed back us to do with it in time.
- 10.9 If your incoming inspection is careless and it arose that the badness rate of your producing process is more than 1%, we won't be liable for the damage.
- 10.10 DIGCU ELECTRONIC CO.,LTD. of DICGU ENTERPRISE CO.,LTD. should save this product without notice right when Reliable ability, action function, frame or designed is changed.