

SPECIFICATION	PAGE
TACT SWITCH	1/4

1. Temperature range

- 1.1 Storage Temperature range -25℃ to 70℃
- 1.2 Temperature range for use -15℃ to 60℃

2. Test circumstance condition

- 2.1 Ambient temperature 16°C
- 2.2 Relative humidity 63% to 74%
- 2.3 Air pressure 102KPA

3. Appearance, Structure and Dimension

- 3.1 Appearance : Functionally free from rust, crack and bad plating.
- 3.2 Structure and Dimension : Reference per attached outline drawing.
- 4. Rating : DC 12V 50mA

5. Mechanical performance

*15	Items	Test conditions	Requirements
5.1	Press force	Placing the switch such that the direction of switch operation is vertical, and then gradually increasing the load applied to the center of the knob the maximum load for the knob to come to a stop shall be measured	As per individual manufactured Drawing
5.2	Travel	Placing the switch such that the direction of switch Operation is vertical and then applying a static load twice the operating force to the center of the knob, the travel distance for the knob to come to a stop shall be measured.	0.25 ± 0.1 mm
5.3	Return force	The sample switch is installed such that the direction of switch operation is vertical, and upon depression of knob in its center the whole travel distance, the force of the knob to return to its free position shall be measured.	130gf : 50 ±20gf 160gf ; greater than 40gf

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5. 4		ctuato	_	To t	To the press direction 10N until the stop for 5 sec				r 5 sec	Item 5.1, 6.1 to 6.3 shall be satisfied. Without damage of actuator. Function and action is in gear.	
5. 5		ection trengt		To a	ny the	connection	Without damage of connection. Port function and action is in gear				
5. 6	Solda	er-Abi]	lity	of th	e tern	ter, the st inal shall ature of 23	More than 90% of the dipping part shall be covered by solder				
5. 7	Soldering heat The soldering area of the terminal shall be immersed									1) There shall not be deforming in appearance 2) The requirements specified in Item 5.1, 6.1 to 6.3 shall be satisfie.	
6. E	lectric	cal per	rform	nce							
6.1		ontact sistan	•	Rati	ng:I	IC 5V	Currer	t :1	00± 2nA		100m2 (Max)
6. 2		sulati sistan		be ap	plied	e of 100V. DC shall I for 1 min after surement shall be Between terminals Between terminals					100MQ or more
6. 3		Withstand 250V. AC/50Hz for 1min,				Between terminals Between individual			No arcing or break down- shall occur. Trip current < 0.5nA		
6.4 Librate Librate frequency: 10-500Hz Swing: Extent cost displacement should be 0.35mm. The accelerated extent cost should be 50m/s². The scan time: 11 minutes once a time. Do it for five times.									st d extent	Item 6.1 shall be satisfied, the façade of the switch have no abnormity, notion and function is good	
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7. W	atheralili	t y									
	PROPER				T	EST CON	ITION	Ī		PERFORMANCE	
								act resista r to Item6		100m2 or less	
			Switch for test shall be Stored at a temperature 40 \pm 2 $^{\circ}$, and a relative lumidity		r e 40 ±	Refe	lation resi r to Item6		100M2 (Mix)		
7.1	Invaria-B Danp H		of 90 the s	- 95% f witch	or 96 hours shall be at standard	s. Then	With	stand volta r to Item6		No arcing or break down shall occur.	
		atmospheric conditions for an hour after which measurement shall be nade within 96hour.			Operating force and Appearance		and	Item 5.1 shall be satisfied, there shall be no deformation or cracks in molded part or excessive rust and discoloration			
7. 2	Dry he proof		70± 2	$^{\circ}\!\mathbb{C}$ for	72 hours, a	and at s	ored at a temperature of standard atmospheric be measured within 1			The Item 3.1, 5.1, 6.1	
7.3	Cold pr	oof	- 25 ±	3℃ for	16 hours,	and at	ored at a temperature of standard atmospheric be measured within 1			satisfied	
8. Da	rability							s force. Re	fer to	± 30% of initial force	
8.1	1.C. ID	100,000 cycles of a knob operation shall be performed					Item 5. 1 Contact resistance. Refer to Item 6. 1 Insulation resistance. Refer to Item 6. 2			200m2 (Mix)	
6.1	8.1 Life Test		continuously at a rate of 2~3 cycles/sec							100M2 or more	
				Withstand voltage. Refer to Item 6.3			ge.	No arcing or Break down shall occur			
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9. Sol	dering condition	5								
9.1	Hand soldering	Please practice according to below condition: (1) Soldering temperature: 260° Max (2) Continuous soldering time: 5s Max (3) Capacity of soldering iron: 20W Max								
		_	D, in case an automatic flow so the following conditions:	oldering apparatus is used						
		Copper foil surface temperature	1							
		Mix. 260 -								
		180 -								
9. 2	Automatic flow soldering	120								
			30~40s							
			²nin+ 0. 3nin	10s max						
			3-4min	•						
		Tine inside soldering equipment								
9.3	Autonatic flow	maximum temperature into the soldering (2)Soldering: Temperat temperature of 260°	ture on the copper foil surface C within 10 seconds nax. after	after the PVB entered e should reach the peak						
5	soldering	(3) Caution: The conditors surface on which parties of the greatly differs from the material, size, this	temperature of 260°C within 10 seconds max. after the PVB entered into soldering heat zone (3) Caution: The condition mentioned above is a temperature on the PVB surface on which parts are mounted. There are cases where PVB temperature greatly differs from switch's surface temperature depending on PVB material, size, thickness, etc. Care, therefore, should be used not to allow switch's surface temperature to exceed 260°C							

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