\sim Slide Switch Specification BSL-SS12D02 Series \sim

1 · Induction :

This specification intends to provides a guideline for the engineering qualification and summarize the results of standard "Slide Switch". All the dimension here in millimeter unless indicated otherwise. All the tests and measurements shall be made in the following standard conditions unless otherwise specified.

Normal temperature	Temperature <mark>5 to 35℃</mark>
Normal humidity	Relative humidity 45 to 85%
Normal pressure	Pressure 860 to 1060 m bars

2 · Electrical performance

ltem	Test Condition	Specification
2.1		DC 50V 0.3A
RATING		
2.2		1P2T
FUNCTION		
2.3		NON-SHORTING
TIMING		
2.4	1000 Hz MEASURED AT SMALL	30m Ω MAX .
CONTACT	CURRENT(100 mA OR LESS	
RESISTANCE		
2.5	APPLY A VOLTAGE OF 500V DC SHALL	100M Ω MIN .
INSULATION	BE APPLIED FOR 1 MIN AFTER WHICH	
RESISTANCE	MEASUREMENT BE MADE:	
	(1) BETWEEN TERMINALS.	
	(2) BETWEEN INDIVIDUAL TERMINALS	
	AND FRAME.	
2.6	AC 500V rms(50-60Hz)FOR 1 MIN TRIP	WITHOUT DAMAGE TO PARTS
DIELECTRIC	CURRENT:0.5 mA	ARCING OR BREAKDOWN, ETC.
STRENGTH	(1) BETWEEN TERMINALS.	
	(2) BETWEEN INDIVIDUAL TERMINALS	
	AND FRAME.	

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3 · Mechanical characteristic

ltem	Test conditions	Specification
3.1	MEASUREMENT SHALL BE MADE AT	250gf±100gf
OPERATING	THE NEAREST POINT OF THE	
FORCE	COMPONENT OR AT THE POINT 3mm	
	FROM THE TIP OF THE ACTUATOR	
	(KNOB).	
3.2	A STATIC LOAD OF 300gf SHALL BE	ELECTRICAL CHARACTERISTICS
TERMINAL	APPLIED TO THE TERMINAL FOR 15	SHALL BE SATISFIED WITHOUT
STRENGTH	SEC.IN ANY DIRECTION	DAMAGE OR EXCESSIVE
		LOOSENESS OF TERMINALS.
3.3	A STATIC LOAD OF 10 N(1Kgf)SHALL BE	THE LEVER SHALL HAVE
DISPLACEMENT	APPLIED TO THE TOP OF THE	NO SERIOUS DEFORMATION
OF ACTUATOR	ACTUATOR(KNOD) AND THEN	AND FUNCTION IS
(KNOB)	DISPLACEMENT SHALL BE MEASURED	NORMALLY
	TO THE DIRECTION OF THE ARROW.	

4 · ENDURANCE CHARACTERISTICS

ltem	Test conditions	Specification
4.1	ENDURANCE WITHOUT LOADING:	(1) CONTACT RESISTANCE:
LIFE TEST	A SWITCH SHALL BE SUBJECTED TO	100mΩ MAX.
	10,000	(2) INSULATION RESISTANCE:
	CYCLES AT A SPEED OF 15 TO 18	50MΩ MIN.
	CYCLES	(3) WITHSTAND VOLTAGE: AC
	PER MINUTE WITHOUT LOADING.	500V,1 MINUTE.AC 500V
		(4) OPERATING FORCE: ±30%
		INITIAL VALUE.
		(5) WITHOUT DAMAGE TO PARTS
		ARCING OR BREAKDOWN ETC.
4.2	THE TOP OF THE TERMINALS SHALL	THE AREA OF SOLDERING.
SOLDERABILITY	BE DIPPED 2mm IN THE SOLDER BATH	SHOULD BE OVER 75%.
TEST	OF 230±5° C FOR 3±0.5 SECONDS.	

\sim Slide Sw	itch Specification BSL	-SS12D02 Series \sim
4.3 RESISTANCE TO SOLDERING HEAT TEST	SOLDER BATH METHOD: SOLDER TEMPERATURE 260±5°C IMMERSION TIME 3±0.5 SEC IMMERSION DEPTH UP TO THE SURFACE OF THE BOARD THICKNESS OF PRINTED WIRING BOARD 1.6mm DIMENSIONS OFCOMPONENT HOLES IN THE PRINTED WIRING BOARD SHALL BEING ACCORDANCE WITH THOSE SPECIFIED IN THIS SPECIFICATION.	WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED.
4.4 COLD TEST	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF -25±3°C FOR 48 HOURS. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE.	THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART.
4.5 HEAT TEST	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 70±2°C FOR 48 HOURS. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE.	
4.6 HUMIDITY TEST	THE SWITCH SHALL BE STORED AT A TEMPERATUREOF 40±2°C AND A HUMIDITY OF 90% TO 95% FOR 96 HOURS.THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE.	THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART.

\sim Slide Switch Specification BSL-SS12D02 Series \sim

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4.7	UNLESS OTHERWISE SPECIFIED.	
STANDARD	THE STANDARD RANGE OF	
ATMOSPHEIC	TMOSPHERIC CONDITIONS FOR	
CONDITIONS	MAKING MEASUREMENTS AND	
	TESTS ARE AS FOLLOWS:	
	(1) AMBIENT TEMPERATURE : 5 $^\circ\!\mathrm{C}$ TO 35	
	°C	
	(2) RELATIVE HUMIDITY : 45% TO 85%	
	(3) AIR PRESSURE : 86Kpa TO 106Kpa	
4.8	-16°C~+60°C.	
PRACTICAL		
TEMPERATURE		
RANGE		