VIMEX INTERNATIONAL CORPORATION

SPECIFICATIONS OF PRODUCTS

DOCUMENT NO.	QI - SK - 080	ISSUED DATE	26-OCT-2004	VERSION : 1.0	PAGE : 1/3
DRAWN		CHECKED	Li Po Sung	APPROVED	
MODEL NO.		ITEM NAME		SLIDE SWITCH	

1. RATING : DC 30V 0.5A

2. OPERATING TEMPERATURE RANGE : -10℃ ~ +60℃

3. ELECTRICAL CHARACTERISTICS

ITEM		TEST CONDITIONS	PERFORMANCE
3.1	CONTACT RESISTANCE	MEASURED AT SMALL CURRENT (10mA 1000Hz OR LESS) .	30mΩ Max.
3.2	INSULATION RESISTANCE	APPLY A VOLTAGE OF 500V DC SHALL BE APPLIED FOR 1 MINUTE AFTER WHICH MEASUREMENT BE MADE: (1) BETWEEN TERMINALS. (2) BETWEEN INDIVIDUAL TERMINALS AND FRAME.	500MΩ Min.
3.3	DIELECTRIC STRENGTH	AC 500V rms (50-60Hz) FOR 1 MINUTE TRIP CURRENT: 0.5 mA (1) BETWEEN TERMINALS. (2) BETWEEN INDIVIDUAL TERMINALS AND FRAME.	WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC.

4. MECHANICAL CHARACTERISTICS

ITEM		TEST CONDITIONS	PERFORMANCE
4.1	OPERATING FORCE	MEASUREMENT SHALL BE MADE AT THE NEAREST POINT OF THE COMPONENT OR AT THE POINT 3mm FROM THE TIP OF THE ACTUATOR (KNOB) .	A-B: 250gf±100gf B-C: 250gf±100gf C-B: 250gf±100gf B-A: 250gf±100gf
4.2	TERMINAL STRENGTH	A STATIC LOAD OF 300gf SHALL BE APPLIED TO THE TERMINAL FOR 15 SEC. IN ANY DIRECTION.	ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED WITHOUT DAMAGE OR EXCESSIVE LOOSENESS OF TERMINALS.

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ITEM		TEST CONDITIONS	PERFORMANCE
4.3	DISPLACEMENT OF ACTUATOR (KNOB)	A STATIC LOAD OF 10N (1kgf) SHALL BE APPLIED TO THE TOP OF THE ACTUATOR (KNOB) AND THEN DISPLACEMENT SHALL BE MEASURED TO THE DIRECTION OF THE ARROW.	THE LEVER SHALL HAVE NO SERIOUS DEFORMATION AND FUNCTION IS NORMALLY.
4.4	LIFE TEST	ENDURANCE WITHOUT LOADING: A SWITCH SHALL BE SUBJECTED TO 10,000 CYCLES AT A SPEED OF 15 TO 18 CYCLES PER MINUTE WITHOUT LOADING.	1. CONTACT RESISTANCE 100mΩ Max. 2. INSULATION RESISTANCE 100MΩ Min. 3. WITHSTAND VOLTAGE AC 500V 1 MINUTE 4. OPERATING FORCE +10% ~ -30% OF INITIAL VALUE 5. WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC.

5. ENVIRONMENT CHARACTERISTICS

ITEM		TEST CONDITIONS	PERFORMANCE
5.1	SOLDERABILITY TEST	THE TOP OF TERMINALS SHALL BE DIPPED 2mm IN THE SOLDER BATH OF 250±5℃ FOR 3±0.5 SECOND.	THE AREA OF SOLDERING SHOULD BE OVER 75%.
5.2	RESISTANCE TO SOLDERING HEAT TEST	SOLDER BATH METHOD: SOLDER TEMPERATURE 250±5℃ IMMERSION TIME 3±0.5 SEC. IMMERSION DEPTH UP TO THE SURFACE OF THE BOARD 0.8mm DIMENSIONS OFCOMPONENT HOLES IN THE PRINTED WIRING BOARD SHALL BE ING ACCORDANCE WITH THOSE SPECIFIED IN THIS SPECIFICATION. SOLDER IRON METHOD: TEMPERATURE OF SOLDER 350±10℃ TIME OF SOLDER 3±0.5 SEC.	WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED.

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ITEM		TEST CONDITIONS	PERFORMANCE
5.3	COLD TEST	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF -25± 3℃ 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.
5.4	HEAT TEST	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 70± 2℃ FOR 48 HOURS, THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE.	
5.5	HUMIDITY TEST	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 40± 2℃ AND A HUMIDITY OF 90% TO 95% 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.

6. Test condition (UNLESS OTHERWISE SPECIFIED)

Temperature :5℃ – 35℃;
Humidity :45%–85%R.H;
Pressure : 86–106kPa

7. Construction : Shape and dimensions subject to attached chart regulation

8. Amendment

When the amendment of this specification comes into necessity, it shall be made by mutual consultation and agreement between manufacturer and customer.