

1. GENERAL DWG. NO. SW-2716-F REV. PART NO. RTS-KEY-S-X-NL

- 1.1 ITEM No.: KEY-S-BLACK
- 1.2 SWITCH RATINGS: 10mA 35V DC

- 1.4 PRESERVATIVE TEMPERATURE RANGE: -30 °C~80°C
- 1.5 APPEARANCE AND DIMENSIONS: SEE OUTSIDE DRAWING PAGE
- 1.6 STANDARD CONDITIONS: UNLESS OTHERWISE SPECIFIED, THE TEST AND MEASUREMENTS SHALL BE CARRIED OUT AS FOLLOWS:
- 1-6-1 AMBIENT TEMPERATURE: 5~35 ℃
- 1-6-2 RELATIVE HUMIDITY: 45~85% RH
- 1-6-3 AIR PRESSURE: 86~106KPa(860~1060mbar)
- ABOVE-MENTIONED CONDITIONS, THE FOLLOWING HOWEVER, IF DOUBT ARISES ON THE DECISION BASED ON THE MEASURED VALUES UNDER THE
- CONDITIONS SHALL BE EMPLOYED.
- 1-6-4 AMBIENT TEMPERATURE: 20±2°C
- 1-6-5 RELATIVE HUMIDITY: 65±5% RH
- 1-6-6 AIR PRESSURE: 86~106KPa(860~1060mbar)

2. PERFORMANCE

2-1 ELECTRICAL CHARACTERISTICS

	2.1.3	2.1.2	2.1.1	8
	DIELECTRIC WITHSTAND VOLTAGE		CONTACT RESISTANCE	ITEM
BOUNCE SHALL BE TESTED AT ON AND OFF SWITCH SWITCH SCOPE	AC 250V(50Hz OR 60Hz) SHALL BE APPLIED ACROSS TERMINALS AND FRAME FOR ONE MINUTE. I IGHTLY STRIKING THE CENTER OF THE STEM AT A RATE	INSULATION MEASUREMENTS SHALL BE MADE FOLLOWING APPLICATION OF RESISTANCE DC 250V POTENTIAL ACROSS TERMINALS AND ACROSS TERMINALS AND FRAME FOR ONE MINUTE.	APPLYING A STATIC LOAD TWICE THE ACTUATING FORCE TO THE CENTER OF THE STEM, MEASUREMENTS SHALL BE MADE WITH A 1KHz SMALL CURRENT CONTACT RESISTANCE METER.	TEST CONDITIONS
TOTAL OFFICE MANY	THERE SHALL BE NO BREAKDOWN	100MOhm MIN	30mOhm MAX	PERFORMANCE

2-2 MECHANICAL CHARACTERISTICS

2.2.5	2.2.4	2.2.3	2.2.2	22.1
VIBRATION TEST	STEM STRENGTH	STOP STRENGTH	TRAVEL	ITEM OPERATING FORCE
1) AMPLITUDE: 1.5mm 2) SWEEP RATE: 10-55-10Hz FOR 1 MINUTE. 3) SWEEP METHOD: LOGARITHMIC FREQUENCY SWEEP RATE. 4) VIBRATION DIRECTION: X. Y. Z(3 DIRECTIONS) 5) TIME: EACH DIRECTION 2 HOURS(TOTAL 6 HOURS)	THE MAXIMUM FORCE TO WITHSTAND A PULL APPLIED OPPOSITE TO THE DIRECTION OF STEM OPERATION SHALL BE MEASURED.	ASTATIC LOAD OF 1Kgf SHALL BE APPLIED IN THE DIRECTION OF STEM OPERATION FOR A PERIOD OF 60 SECONDS	PUSH BY RECOMMENDED OPERATING CONDITION. F=(OPERATION FORCE)X2 F	PUSH BY RECOMMENDED OPERATING CONDITION. FORCE PORCE RETURN FORCE STROKE
No.2.1 AND 2.2.1 TO 2.2.2 SHALL BE SATISFIED.	500gf MIN	NO DAMAGE (ELECTRICAL AND MECHANICAL)	0.7±0.20mm	PERFORMANCE OPERATING FORCE: 250±50g 0.7±0.20mm

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ECN#

DATE

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08-100 03/20/08

CHANGED THE DRAVING TO ROHS COMPLIANT & REVISED IT TO A SERIES DRAWING

REVISION RECORD

DWG, NO.
SW-2716-F
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2.2.	2.2.6	No
2.2.7 SOLDERING HEAT TEST	IMPACT SHOCK TEST	ITEM
1) SOLDERING AREA: t/2 OF P.W.B THICKNESS(P.W.B t=1.6) 2) SOLDERING TEMPERATURE: 260±5°C 3) SOLDERING TIME: 5±1 SEC	1) ACCELERATION: 80g 2) CYCLES OF TEST: 3 CYCLES EACH IN 6 DIRECTIONS, FOR A TOTAL 18 CYCLES	TEST CONDITIONS
NO DAMAGE (ELECTRICAL AND MECHANICAL)	No. 2.1 AND 2.2.1 TO 2.2.2 SHALL BE SATISFIED.	PERFORMANCE

			1-
	237	2.3.6	8
	2.3.7 WITHSTAND SO2	23.8 WITHSTAND H2S	ITEM
3) RELATIVE HUMIDITY: 90-95% 4) DURATION OF TEST: 24 HOURS 5) STANDARD CONDITIONS AFTER TEST: 1 HOUR	1) DENSITY: 10±1 ppm 2) TEMPERATURE: 40±2°C	1) DENSITY: 3±1 ppm 2) TEMPERATURE: 40±2°C 3) RELATIVE HUMIDITY: 90-95% 4) DURATION OF TEST: 24 HOURS 5) STANDARD CONDITIONS AFTER TEST: 1 HOUR	TEST CONDITIONS
	SATISHED.	CONTACT RESISTANCE: 300mOhm MAX. No 2.1.2 TO 2.1.4 AND 2.2.1 TO 2.2.2 SHALL BE	PERFORMANCE

2-3 CLIMATIC CHARACTERISTICS

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2.3.5	2.3.4			233	2.3.2		2.3.1	공
OPERATING LIFE TEST	TEST			TEMPERATURE CYCLE	HEAT TEST		COLD TEST	ITEM
1) DC 5V,5mA RESISTANCE LOAD 2) OPERATION SPEED: 40-60 CYCLES/SEC 3) PUSH FORCE: MAXIMUM VALUE OF OPERATION FORCE 4) CYCLE OF OPERATION: 100000 CYCLES	1) TEMPERATURE: 60±2°C 2) RELATIVE HUMIDITY: 90-95% 3) DURATION OF TEST: 96 HOURS 4) TAKE OFF A DROP WATER. 5) STANDARD CONDITION AFTER TEST: 1 HOUR	-10°C	709	1) TEST CYCLES: 5 CYCLES 2) STANDARD CONDITION AFTER TEST: 1 HOUR 3) 1 CYCLES	1) TEMPERATURE: 80±2°C 2) DURATION OF TEST: 96 HOURS 3) STANDARD CONDITION AFTER TEST: 1 HOUR	3) TAKE OFF A DROP WATER 4) STANDARD CONDITION AFTER TEST: 1 HOUR	1) TEMPERATURE: -30±2°C 2) DURATION OF TEST: 96 HOURS	TEST CONDITIONS
CONTACT RESISTANCE: 250m0/nm MAX. BOUNGE: 20m SEC MAX ACTUATING FORCE: 20% NITAL FORCE No 2.1.2 TO 2.1.3 AND 2.2.2 SHALL BE SATISFIED.				N0 2.1.2 TO 2.1.4 AND 2.2.1 TO 2.2.2 SHALL BE SATISFIED.	CONTACT RESISTANCE: 200mOhm MAX.			PERFORMANCE

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