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NOTES:

- SWITCH TYPE: UNIDIRECTIONAL, SPST, NORMALLY OPEN, NON-LATCHING.
- PHYSICAL CHARACTERISTICS

REF.	CHARACTERISTIC	REQUIREMENTS	TEST METHOD
2.1	WEIGHT	6.0 GRAMS MAX.	SCALE
2.2	SEAL a) HERMETIC b) GROSS	1×10^{-6} SCCS @ 1ATM MAX.	MIL-STD-202, TEST METHOD 112, TEST CONDITION C, PROC. 111A TEST CONDITION D
2.3	TERMINAL STRENGTH	5 LBS. MIN. AXIAL PULL	MIL-STD-202, MTD 211, TEST CONDITION C
2.4	SOLDERABILITY		MIL-STD-202, MTD 208, EXCEPT AGING
2.5	MARKING	"SCI" 3014-1, LOT NO., BLACK EPOXY INK	VISUAL
2.6	LEADS	INSULATED-GOLD PLATED CASE-TIN/LEAD	CERTIFICATION

3. OPERATING CHARACTERISTICS

REF.	CHARACTERISTIC	REQUIREMENTS
3.1	OPEN CONTACTS CONDITION	ON INCREASING ACCELERATION CONTACTS SHALL BE OPEN AT ANY CONSTANT ACCELERATION LESS THAN 1.7g.
3.2	CLOSED CONTACTS CONDITION	CONTACTS SHALL BE CLOSED AT CONSTANT ACCELERATIONS GREATER THAN 2.3g OR MORE, APPLIED IN THE SENSITIVE DIRECTION Z ₅
3.3	DECREASING ACCELERATION RESPONSE	ON DECREASING ACCELERATION, CONTACTS SHALL BE OPEN AT ANY CONSTANT ACCELERATION LESS THAN 1.5g.
3.4	OPERATING LIFE	1000 OPERATIONS MIN.
3.5	STORAGE LIFE	15 YEARS MIN.

3014-1-000
SHT. 2 OF 2
C

REVISIONS				
ALT	DESCRIPTION	BY	CHK	ENG
A	SEE ECN 3014-1-000A	AHN 8/7/01		
B	SEE ECN 3014-1-000B	AHN 3/22/02		
C	SEE ECN 3014-1-000C	AHN 11/18/03		


4. ELECTRICAL CHARACTERISTICS

REF.	CHARACTERISTIC	REQUIREMENTS	TEST METHOD
4.1	INSULATION RESISTANCE	30 MEGOHMS MIN. @ 500 VDC	MIL-STD-202, MTD 302
4.2	DIELECTRIC STRENGTH	500 μ AMPS MAX. @ 500 VRMS 60 HZ, 5 SEC.	MIL-STD-202, MTD 301
4.3	CLOSED CONTACT RESISTANCE	10 OHMS MAX. @ .100 AMP @ 2.3g MAX.	

5. ENVIRONMENTAL CAPABILITY

REF.	CHARACTERISTIC	TEST METHOD
5.1	OPERATING TEMPERATURE	-65°F TO +180°F
5.2	VIBRATION (ANY AXIS)	WITH SWITCH MOUNTED HORIZONTALLY, NO CONTACT CLOSURE SHALL OCCUR WITH: 1.) A 0.100 INCH DOUBLE AMPLITUDE FROM 5HZ TO 44.2HZ. 2.) A 10g CONSTANT ACCELERATION FROM 44.3HZ TO 2000HZ.
5.3	SHOCK ACTIVATION	SWITCH CONTACTS CLOSE WHEN SUBJECTED TO SHOCKS IN THE "MUST FIRE" ZONE OF FIGURE 2-1 OF RTCA/DO-183
5.4	CROSS AXIS ACCELERATION	SWITCH CONTACTS CLOSE WHEN OPERATED IN THE g SENSITIVE DIRECTION WITH 30g CROSS-AXIS APPLIED SIMULTANEOUSLY WITH 2.3g MINIMUM IN SENSITIVE DIRECTION.
5.5	TEMPERATURE/HUMIDITY	MIL-STD-331, TEST 105.

6. APPLICATION DESIGNED FOR ELT APPLICATION.

ITEM	NO. REQ'D	PART NO.	DESCRIPTION	REMARKS
BILL OF MATERIAL				
		 45-3 KNICKERBOCKER AVE. BOHEMIA, N.Y. 11716		
		TITLE ACCELERATION SWITCH		
NO. REQ'D	N/A	NO. REQ'D	N/A	SCALE: 2:1
				WEIGHT: NOTED
				DATE: 10-23
				DRAWING NO. 3014-1-DDD
				REV. C
				SHEET 2 OF 2

MATERIAL _____
FINISH _____

DO NOT SCALE DRAWING
REMOVE BURRS, BREAK SHARP EDGES
TOLERANCES UNLESS SPECIFIED:
FRACTIONS: ±1/64 ANGLE: ±0.20°
MACH FINISH: ✓ DEC: .00 ± .03
RFS DEC: .000 ± .010