

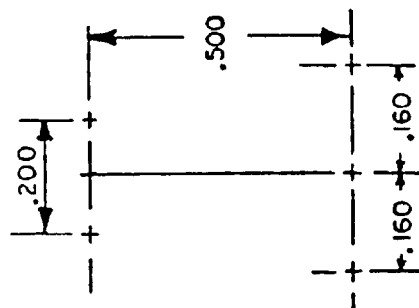
REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION
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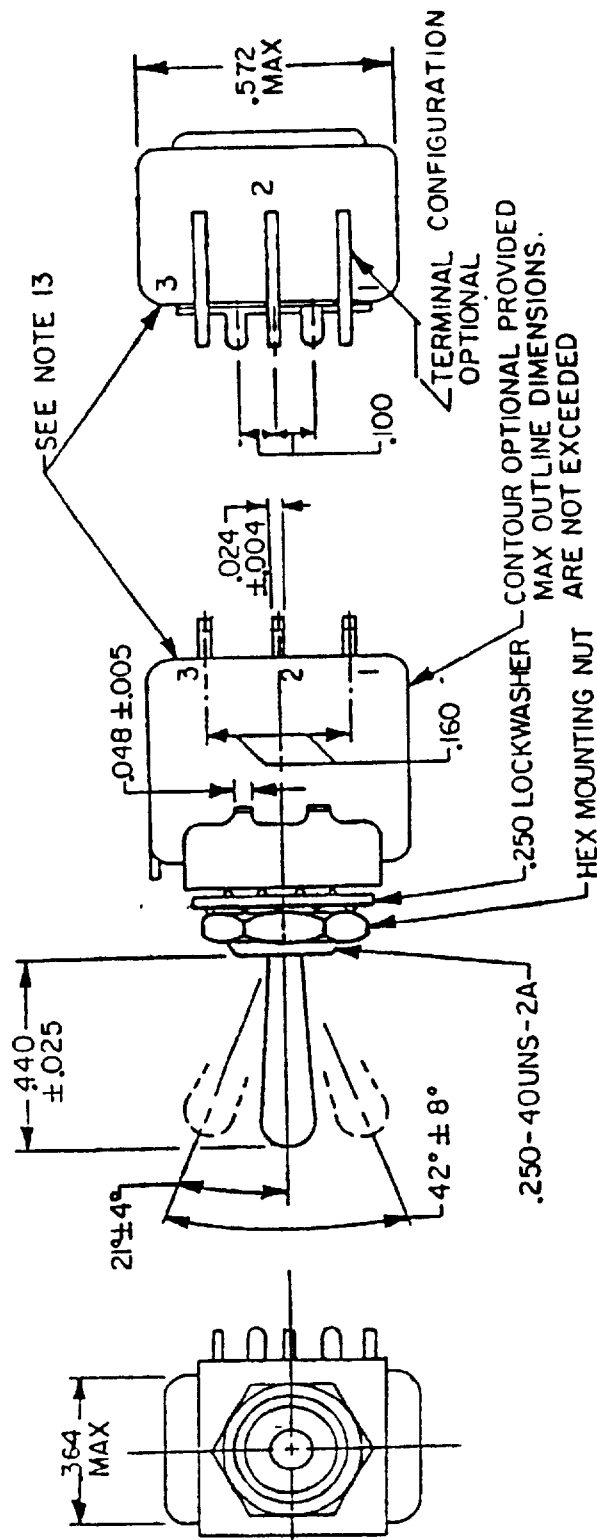
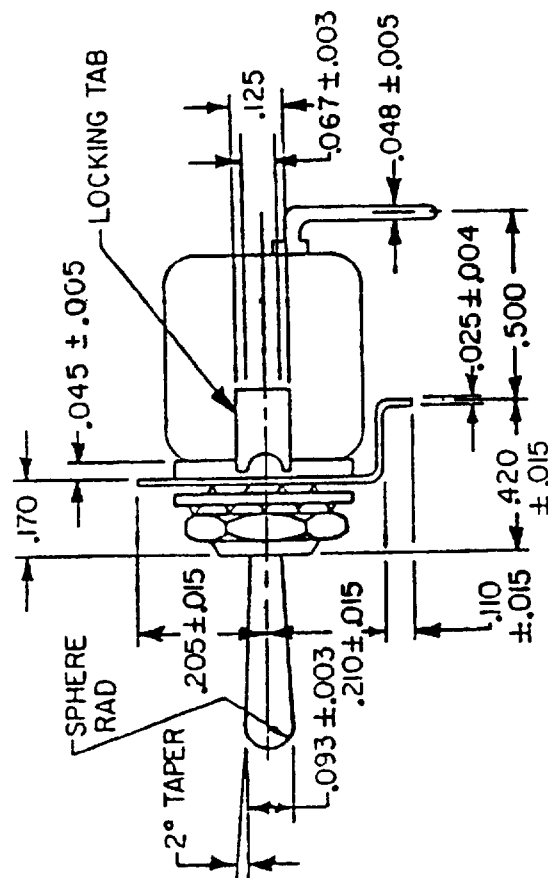
THIS SPECIFICATION
of the Department of Defense

SOLICITATION MIL-S-8834

Form Approved
OMB No 0704-0188



DRILLING DIMS



(E) Denotes changes

PREPARING ACTIVITY Air Force-85 CUSTODIANS ARMY NAVY AS AIR FORCE OLA	MILITARY SPECIFICATION SHEET TITLE SWITCH, TOGGLE, POSITIVE BREAK, MINIATURE, TOGGLE SEALED, SINGLE POLE, PRINTED CIRCUIT BOARD TERMINALS, RIGHT ANGLE MOUNT	SPECIFICATION SHEET NUMBER MS21433E 4 Sep 1991
REVIEW Air Force-11, 99 Navy-EC USER PROJECT NUMBER 5930-1454-06	SUPERSUCCESSOR MS21433D 15 Dec 1989 AMSC N/A FSC 5930	DISTRIBUTION STATEMENT A Approved for public release, distribution is unlimited
DD Form 672, MAY 88	Previous editions are obsolete	Page 1 of 3

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.003	0.08	.045	1.14	.125	3.18	.250	6.35
.004	0.10	.048	1.22	.160	4.06	.364	9.25
.005	0.13	.067	1.70	.170	4.32	.420	10.67
.015	0.38	.093	2.36	.200	5.08	.440	11.18
.024	0.61	.100	2.54	.205	5.21	.500	12.70
.025	0.64	.110	2.79	.210	5.33	.572	14.53

NOTES.

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ± 0.010 (0.25 mm) on decimals and $\pm 5^\circ$ on angles.
4. For hardware detail specification see appendix of MIL-S-8834.
5. In the event of a conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence.
6. Referenced Government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation shall form a part of this standard to the extent specified herein.
7. Shock: Method I and method II (high impact). The switches shall be rigidly mounted to the shock test equipment by means of their terminals and mounting tab. The switch shall be electrically and mechanically operative at the conclusion of the test and there shall be no mechanical transfer during the test.
8. Terminals: Gold plated.
9. Weight: 6.15 grams, maximum.
10. Strength of terminals: Terminals shall be subjected to a five-pound pull for 5 to 10 seconds with the long dimension of the terminal contact vertical. The force shall be applied to the terminal at a point .06 inch (1.5 mm) below the bottom of the switch base, and in a direction parallel to the axis of the toggle lever in its center position. Two outboard terminals shall be tested. However, a terminal shall be tested only once in one direction.
11. Altitude: 50,000 feet.
12. Strength of actuator. Lever pivot and lever stop 6 pounds.
13. Terminals need not be marked. Terminal identification is shown for reference purposes only.
14. Mounting bracket: Brass, tin plated, or coated.
15. For hardware detail specifications, see appendix of MIL-S-8834.

PREPARING ACTIVITY Air Force-85 CUSTODIANS ARMY NAVY-AS AIR FORCE DLA-		MILITARY SPECIFICATION SHEET TITLE SWITCH, TOGGLE, POSITIVE BREAK, MINIATURE, TOGGLE SEALED, SINGLE POLE, PRINTED CIRCUIT BOARD TERMINALS, RIGHT ANGLE MOUNT		SPECIFICATION SHEET NUMBER MS21433E	
REVIEW Air Force-11, 99 Navy-EC USER		SUPERSADING MS21433D		15 Dec 1989	
PROJECT NUMBER 5930-1454-06		AMSC N/A		FSC 5930	
DISTRIBUTION STATEMENT				Page 2 of 3	

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Detail requirements

MS dash no.	Circuit made between terminals as indicated with the toggle lever in these positions: (a)	Current capacity in amperes						Low current level switching 5 mV
		Resistive load			Inductive load			
	Opposite locking tab side	Center position (d)	28 V dc	115 V	28 V dc	115 V		
			60 Hz	1400 Hz	60 Hz	1400 Hz		
				ac	ac	ac		
-211		off	on 1-2					
-221	on 2-3	none	off on 1-2	5	12	(b) 1	(c) 25 μ A	
-231								
-241			none					
-271	mom-on 2-3		mom-on					
-281	none	off	1-2					
-311	on 2-3							
-321 (e) (f)	none	on 2-3						

SEE NOTE (f)

- (E)
- (a) Direction of movement of internal mechanism is opposite to the direction of the toggle movement.
 - (b) With time constant of .020 \pm .002 seconds.
 - (c) Contact resistance not to exceed 50 Ω during life, low current level switching.
 - (d) Non-functional terminals shall not be supplied.
 - (e) Dielectric withstanding voltage: 1200 V rms at sea level (center on circuits).
 - (f) Delayed action of the switch toggle lever may cause circuit to close or open before snap action mechanism trips.

PREPARING ACTIVITY Air Force-85
CUSTODIANS ARMY NAVY-AS
AIR FORCE DLA
REVIEW Air Force-11, 99 Navy-EC
USER
PROJECT NUMBER 5930-1454-06
DISTRIBUTION STATEMENT

MILITARY SPECIFICATION SHEET
TITLE SWITCH, TOGGLE, POSITIVE
BREAK, MINIATURE, TOGGLE SEALED,
SINGLE POLE, PRINTED CIRCUIT BOARD
TERMINALS, RIGHT ANGLE MOUNT

SPECIFICATION SHEET NUMBER
MS21433E
SUPERSEDING
MS21433D 15 Dec 1989
AMSC N/A FSC 5930

Page 3 of 3