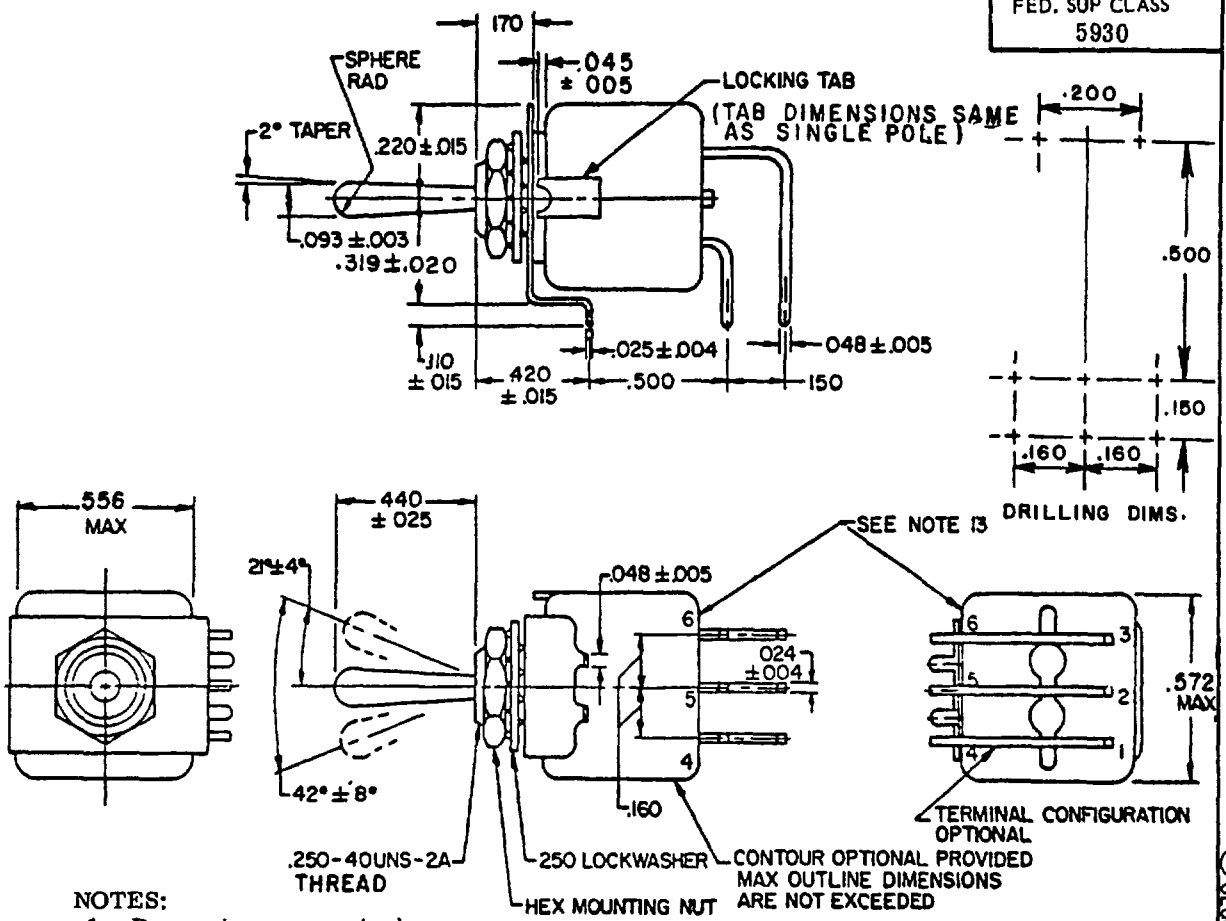
FED. SUP CLASS
5930



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
3. Unless otherwise specified, tolerances are ± .010 on decimals and ± .5° on angles.
4. For design feature purposes, this standard takes precedence over procurement documents referenced herein.
5. Referenced documents shall be of the issue in effect on date of invitation for bid.
6. 115 Vac 60 hertz electrical endurance tests are to be performed at room temperature and pressure.
7. Switches shall be rigidly mounted to the shock test equipment by means of their terminals and subjected to shock tests, Method 207, of MIL-STD-202. 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: 8.75 grams, maximum.
10. Strength of terminals: (See page 2.)
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 purpose only.
14. Mounting, bracket-brass, tin plated or coated.
15. For hardware detail specifications, see appendix of MIL-S-8834.
16. MS dash no. -321, -331, -341, and -351, dielectric withstanding voltage: 1,200 Vrms at sea level.

(B) Denotes changes

P A AF-85 Other Cust Navy - AS Army - ER	International Interest	TITLE SWITCHES, TOGGLE, POSITIVE BREAK, MINIATURE, TOGGLE SEALED, DOUBLE POLE, PRINTED CIRCUIT BOARD TERMINALS, RIGHT ANGLE MOUNT	MILITARY STANDARD MS 21434
Procurement Specification MIL-S-8834		SUPERSEDES	PAGE 1 OF 2

DD FORM 1 MAY 73 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE 5930-1187-6

APPROVED 8 JUN 1977 REVISED (A) 6 FEB 1978 (B) 10 Dec 81

Review activities: Army - EL, MI, AV; Navy - AS, EC; Air Force - 17, 85, 99

User activities: Army - AR, AT; Navy -; Air Force -

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable

Terminal strength. Terminals shall be subjected to a 5-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 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.

INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
.003	.08	.025	.64	.160	4.06	440	11.18
.004	10	045	1.14	.170	4.32	.500	12 70
.005	.13	.067	1.70	.200	5 08	.556	14.12
.010	25	.093	2.36	.220	5.59	.572	14.53
.015	.38	.100	2.54	.250	6 35		
.020	.51	.110	2.79	.319	8.10		
.024	.61	.150	3.81	.420	10.67		

DETAIL REQUIREMENTS

MS dash no.	Circuit made between terminals as indicated with toggle lever in these positions (a)			Current capacity in amperes						Life, low current level switching 5 MV
				Resistive load			Inductive load			
	Opposite locking tab side (d)	Center position	Locking tab side (d)	28 volts dc	115 volts 60 hertz ac	115 volts 400 hertz ac	28 volts dc	115 volts 60 hertz ac	115 volts 400 hertz ac	
-211	ON 2-3, 5-6	OFF	ON 1-2, 4-5	5	2	3	1 (b)	1	2	25 microamperes (c)
-221		NONE	OFF							
-231			ON 1-2, 4-5							
-241		OFF	NONE							
-271	MOM-ON 2-3, 5-6		MOM-ON 1-2, 4-5							
-281	NONE									
-311	ON 2-3, 5-6									
-331 1/	ON 2-3, 5-6	ON 2-3, 4-5	ON 1-2, 4-5							
-341 1/	MOM-ON 2-3, 5-6	ON 2-3, 4-5	MOM-ON 1-2, 4-5							
-321 1/	NONE	ON 2-3, 5-6	MOM-ON 1-2, 4-5							
-351 1/	ON 2-3, 5-6	ON 2-3, 4-5	MOM-ON 1-2, 4-5							

(a) Direction of movement of internal mechanism is opposite to the direction of the toggle movement.
(b) With the time constant of .020 ±.002 seconds.
(c) Contact resistance not to exceed 50 ohms during life, low current level switching.
(d) Non-functional terminals shall not be supplied.

(B) 1/ Delayed action of the switch toggle lever may cause circuit to close or open before snap action mechanism trips

APPROVED 8 JUN 1977 REVISED (A) For changes see page 1 (B) FOR CHANGES SEE PAGE 2

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