

DETAIL SPECIFICATION SHEET

SWITCH, TOGGLE, POSITIVE BREAK, MINIATURE, TOGGLE SEALED,
 PRINTED CIRCUIT BOARD TERMINALS, SINGLE POLE, .250 MOUNTING BUSHING

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the products described herein shall consist of this specification sheet and MIL-DTL-8834.

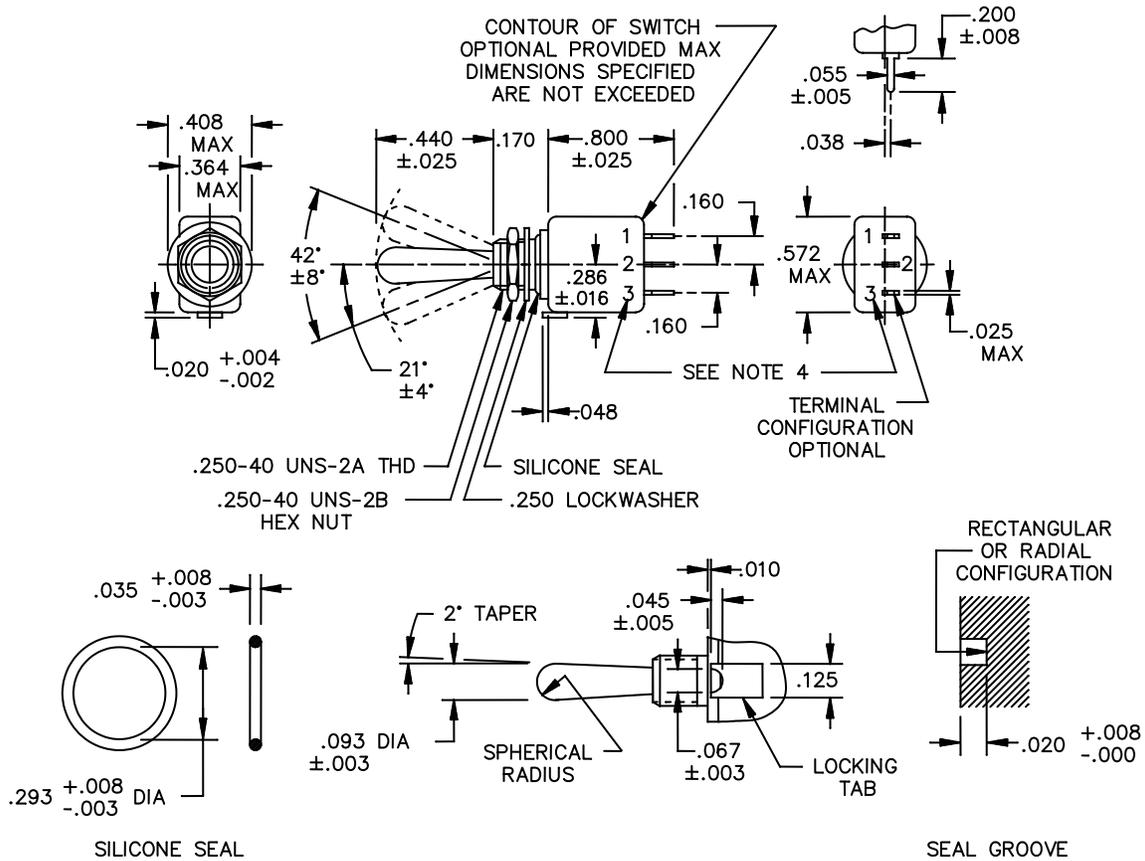
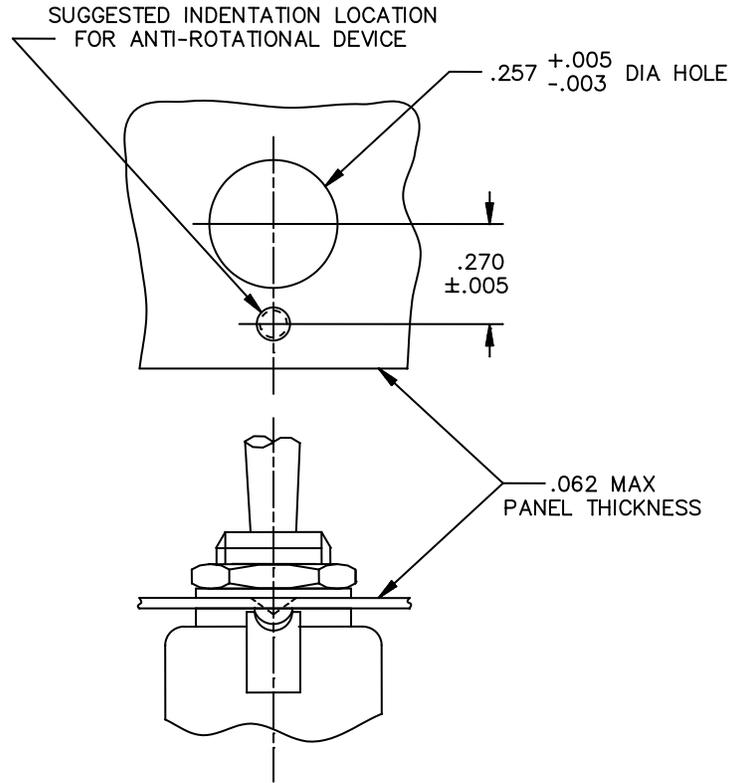


FIGURE 1. Dimensions and configuration.

MS21354M



Inches	mm	Inches	mm	Inches	mm	Inches	mm
.002	0.05	.025	0.64	.093	2.36	.286	7.26
.003	0.08	.035	0.89	.125	3.18	.293	7.44
.004	0.10	.038	0.97	.160	4.06	.364	9.25
.005	0.13	.045	1.14	.170	4.32	.408	10.36
.008	0.20	.048	1.22	.200	5.08	.440	11.18
.010	0.25	.055	1.40	.250	6.35	.572	14.53
.016	0.41	.062	1.57	.257	6.53	.800	20.32
.020	0.51	.067	1.70	.270	6.86		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are $\pm .010$ (0.25 mm) on decimals and $\pm 5^\circ$ on angles.
4. Terminals need not be marked. Terminal identification is shown for reference purposes only.

FIGURE 1. Dimensions and configuration - Continued.

MS21354M

REQUIREMENTS:

For hardware detail specifications, see appendix of MIL-DTL-8834.

In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence.

Dielectric withstanding voltage: For center on circuits, DWV shall be 1,200 V rms at sea level.

115 V ac, 60 hertz electrical endurance tests are to performed at room temperature and pressure.

Switches shall be rigidly mounted by their normal means on a rigid metal panel and subjected to shock test, 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.

Terminals: Gold plated.

Suitable for mounting on panels .062 inches (1.57 mm) maximum thickness.

Weight: .011 pound maximum (5 grams).

Strength of terminals: 5 pounds normal to the mounting plane and 1 pound in other planes.

Altitude: 50,000 feet.

Strength of actuator: Lever pivot and lever stop 6 pounds.

TABLE I. Detail requirements.

MS dash no	Circuit made between terminals as indicated with the toggle lever in these positions: <u>1/</u>			Current capacity in amperes						Low current level switching 5 mV
				Resistive load			Inductive load			
	Opposite locking tab side <u>4/</u>	Center position	Locking tab side <u>4/</u>	28 volts dc	115 volts		28 volts dc	115 volts		
60 Hertz ac					400 Hertz ac	60 Hertz ac		400 Hertz ac		
-211	on 2-3	off	on 1-2	5	2	3	1 <u>2/</u>	1	2	25 μ A <u>3/</u>
-221		none	off							
-231			on 1-2							
-241		none								
-271	mom-on 2-3	off	mom-on 1-2							
-281	none									
-311	on 2-3									
-321 <u>5/</u>	none	on 2-3								

1/ Direction of movement of internal mechanism is opposite to the direction of the toggle movement.

2/ With time constant of .020 \pm .002 second.

3/ Contact resistance not to exceed 50 Ω during life, low current level switching.

4/ Non-functional terminals shall not be supplied.

5/ Delayed action of the switch toggle lever may cause circuit to close or open before snap action mechanism trips.

MS21354M

Referenced documents:

MIL-DTL-8834
MIL-STD-202

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:

Army - CR
Navy - AS
Air Force - 85
DLA - CC

Preparing activity:
DLA – CC

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Review activities:

Army - AR
Navy - EC
Air Force - 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.daps.dla.mil/> .