

DETAIL SPECIFICATION SHEET

SWITCH, TOGGLE, POSITIVE BREAK, MINIATURE, TOGGLE SEALED,  
 PRINTED CIRCUIT BOARD TERMINALS, DOUBLE POLE, .469 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.

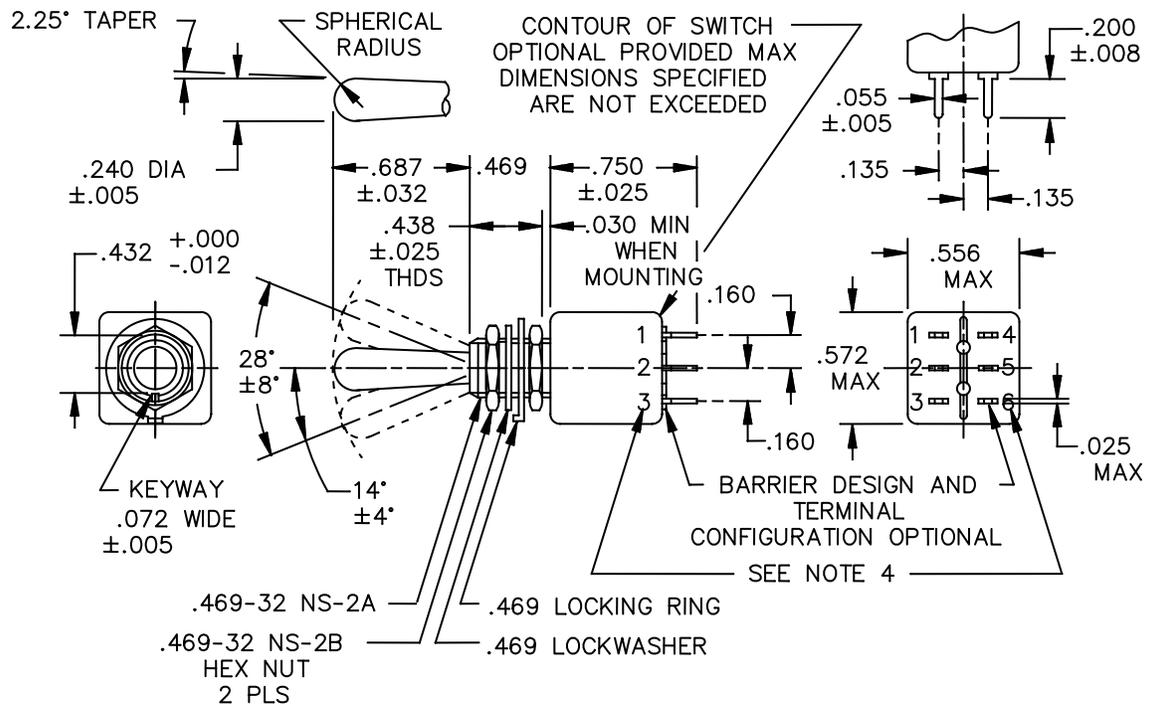


FIGURE 1. Dimensions and configuration.

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Inches	mm	Inches	mm	Inches	mm
.005	0.13	.038	0.97	.364	9.25
.008	0.20	.055	1.40	.432	10.97
.012	0.30	.072	1.83	.438	11.13
.025	0.64	.160	4.06	.469	11.91
.030	0.76	.200	5.08	.572	14.53
.032	0.81	.240	6.10	.687	17.45
				.750	19.05

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are  $\pm 0.010$  (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.

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.

Toggle seal test: Method I for 700 and 800 series. Method II for 200 and 300 series.

The switch shall be electrically and mechanically operative at the conclusion of the shock test with 2,000 foot pounds, except there can be transfer of the contact mechanism at all levels when tested in accordance with MIL-STD-202, method 207.

Terminals: Gold plated.

Weight: .0429 pound maximum (19.4 grams).

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

Altitude: 50,000 feet.

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

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TABLE I. Detail requirements.

MS dash no <u>5/ 7/</u>		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 keyway side <u>4/</u>	Center position	Keyway tab side <u>4/</u>	28 volts dc	115 volts		
60 Hertz ac	400 Hertz ac	60 Hertz ac	400 Hertz ac								
-711	-211	on 2-3, 5-6	off	on 1-2, 4-5	5	2	3	1	1	2	25 $\mu$ A <u>3/</u>
-721	-221		none	off							
-731	-231		on 1-2, 4-5								
-741	-241		none								
-771	-271	mom-on 2-3, 5-6	off	mom-on							
-781	-281	none	off	1-2							
-811	-311	on 2-3, 5-6	off	4-5							
-821 <u>6/</u>	-321 <u>6/</u>	none	on	on 1-2, 4-5							
-831 <u>6/</u>	-331 <u>6/</u>	on 2-3, 5-6	2-3	mom-on							
-841 <u>6/</u>	-341 <u>6/</u>	mom-on 2-3, 5-6	2-3	1-2 4-5							
-851 <u>6/</u>	-351 <u>6/</u>	on 2-3, 5-6	4-5	1-2 4-5							

- 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 $\Omega$  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.
- 6/ 700 and 800 series toggle seal: 15 foot head (water).  
200 and 300 series toggle seal: .500 inch head (water).

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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:

Navy - AS

Air Force - 85

DLA - CC

Preparing activity:

DLA – CC

(Project 5930-2011-078)

Review activities:

Navy - EC

Air Force - 99

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