

PERFORMANCE SPECIFICATION SHEET

SWITCH ASSEMBLIES, SENSITIVE, LEVER LOCK, 5 AMPERES, UNSEALED

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

The requirements for acquiring the switches described herein shall consist of this document and [MIL-PRF-8805](#).

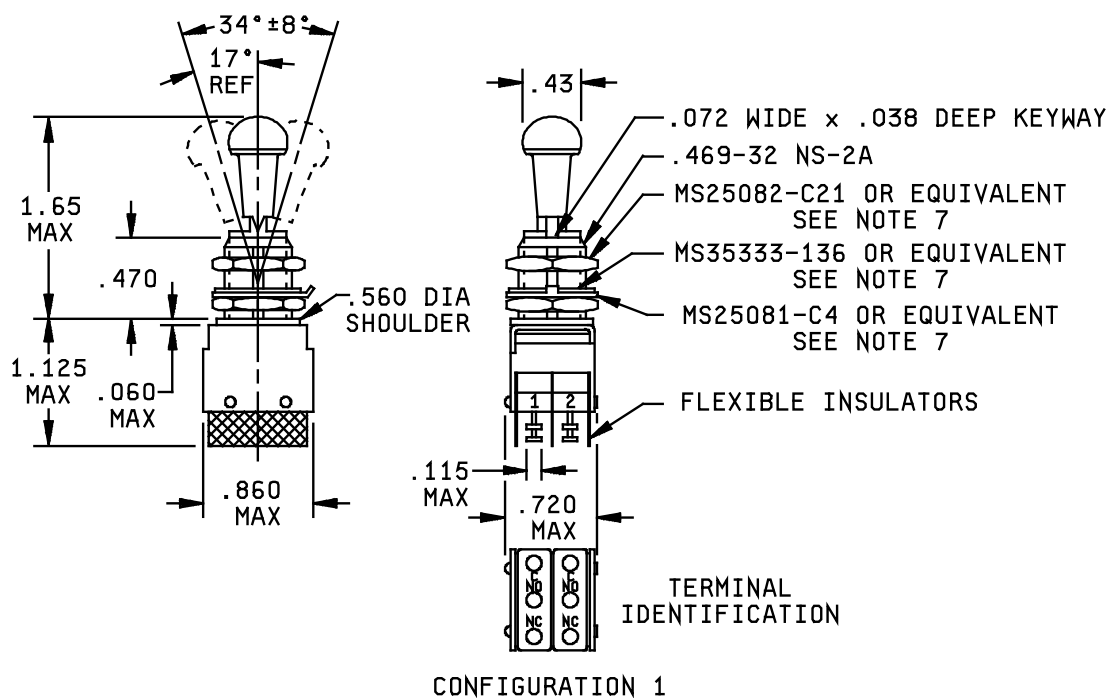
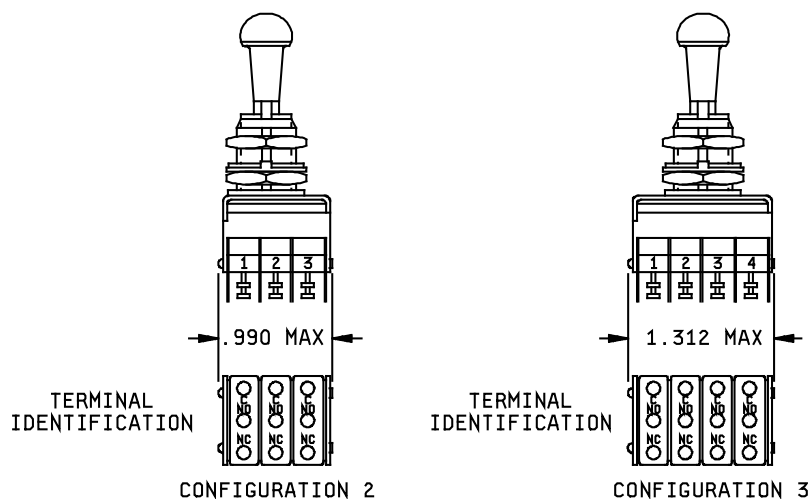


FIGURE 1. Configurations and dimensions.



KEYING SIDE →

"A" LOCKED IN THREE POSITIONS	"B" LOCKED IN CENTER AND EXTREME POSITION (KEYWAY SIDE)	"D" LOCKED OUT OF CENTER POSITION	"E" LOCKED IN CENTER POSITION
"F" LOCKED IN EXTREME POSITION (OPPOSITE KEYWAY)	"G" LOCKED IN EXTREME POSITION (KEYWAY SIDE)	"J" LOCKED OUT OF CENTER AND EXTREME POSITION (OPPOSITE KEYWAY)	"K" LOCKED IN CENTER AND EXTREME POSITION (OPPOSITE KEYWAY)
"L" LOCKED OUT OF EXTREME POSITION (KEYWAY SIDE)	"M" LOCKED OUT OF AND INTO EXTREME POSITION (OPPOSITE KEYWAY)	"N" LOCKED OUT OF EXTREME POSITION (OPPOSITE KEYWAY)	"P" LOCKED OUT OF AND INTO EXTREME POSITION (KEYWAY SIDE)

LOCKING COMBINATION

NOTES:

1. Dimensions are in inches. Unless otherwise specified, tolerances are ± 0.015 for three place decimals and ± 0.02 for two place decimals.
4. Design configuration optional provided specified dimensions are not exceeded.
5. Base switch number shall be permanently marked as shown.
6. Double turret type terminals shall accept two AN-20 or equivalent wires.
7. Alternative base metals and protective finishes, as approved by the qualifying activity, may be utilized for hexagon nut, lock washer and key washer material. Dimensions shall be in accordance with the referenced hardware specifications.
8. Details for MS25081-C4 may be found in [MS25081](#), MS25082-C21 in [MS25082](#), and MS35333-136 in [NASM35333](#).

FIGURE 1. Configurations and dimensions - continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Enclosure design: 1 (Unsealed).

Seal test: Not applicable.

Temperature characteristic: 1 (-55°C to +85°C).

Shock type: M (100 g, test condition I, of [MIL-STD-202-213](#)).

Vibration grade: 1 (10 to 500 Hz).

Weight: See table III.

Operating characteristics:

Coincidence of operating and releasing points: All poles shall transfer within 10° of lever travel.

Locking arrangement: Positive locking shall be accomplished and shall prevent motion of the toggle lever until the locking mechanism is manually released.

Locking mechanism release: The force required to release the locking mechanism shall be 3 to 5 pounds.

Material:

Bracket and lever: Corrosion resistant steel.

Switch assembly: Basic switch shall be MS25085-2 ([MIL-PRF-8805/2](#)) switch listed on QPL-8805.

Contact resistance: Not applicable.

Dielectric withstanding voltage:

Sea level: 1,000 Vrms.

Altitude: 50,000 feet, 400 Vrms

In qualification inspection table after electrical endurance the dielectric withstanding voltage points of application between all unconnected terminals of the same pole are not applicable.

Mechanical endurance: 100,000 cycles.

Lever lock switches shall be tested for 100,000 cycles (at room ambient conditions) with the lever being pulled to its fully extended position and then permitted to return to its fully retracted position by spring action without operation of the switches. The cycling rate for this test shall be 60 cycles per minute maximum. In addition to this test, the lever lock switches shall receive a normal mechanical endurance test of 100,000 cycles of operation with the lever lock mechanism held in its fully extended position continuously throughout the test.

Electrical endurance: 25,000 cycles.

Electrical ratings: see table I.

MIL-PRF-8805/92G

Qualification inspection (group submission): See table II.

Part or Identifying Number (PIN): See table III.

Circuit configuration: See table IV.

TABLE I. Electrical ratings.

Load	Sea level		50,000 feet
	28 V dc amperes	115 V ac, 60 Hz amperes	28 V dc amperes
Resistive	5	5	5
Inductive	3	5	2.5
Lamp	2.4	1.5	2.4

TABLE II. Qualification inspection group submission.

Examination or test	Basic switch assembly	Additional sample units for combined submission	Extent of approval
<u>Group I.</u> Visual and mechanical examination Operating characteristics	M8805/92-002 (12 sample units)	(2 sample units each) M8805/92-005 M8805/92-016 M8805/92-019 (tested to group I only)	All
<u>Group II.</u> Strength of actuating means (2 sample units only) Strength of mounting bushing (2 sample units only) Thermal shock Vibration Shock Operating characteristics Dielectric withstanding voltage Visual and mechanical examination	(4 sample units from group I)	-----	
<u>Group III.</u> Salt spray (corrosion) Visual and mechanical examination	(2 sample units from group I)	----	
<u>Group IV.</u> Low temperature operation (2 sample units) Mechanical endurance at room ambient conditions (2 units) Operating characteristics Dielectric withstanding voltage Visual and mechanical examination	(4 sample units from group I)	----	
<u>Group V.</u> Electrical endurance Inductive load, dc	(2 sample units from group I)	----	

TABLE III. PIN's and characteristics.

PIN M8805/92-	Switch configuration <u>number</u> (See figure I)	Locking combination	Table IV circuit configuration	Switch action			Weight lb. max								
				Opposite keyway	Center	Keyway									
001	1	D	1	Main	None	Main	.075								
002	3	D	4				.100								
003		F						.100							
004		G							.100						
005	1	E	2	Mom	Main	Mom	.075								
006		A D E F G J K L M N		Main	Main	Main	.075								
007								.075							
008									.075						
009										.075					
010											.075				
011												.075			
012													.075		
013														.075	
014															.075
015															
016		Mom		Main	Main	.075									
017							.075								
018								.075							
019	2	A	3	Main	Main	Main			.090						

TABLE IV. Circuit configuration.

Circuit configuration	Switch pole number	Circuit closed with the toggle lever in		
		Opposite keyway side	Center	Keyway side
1	1	C-NC	None	C-NO
	2	C-NC		C-NO
2	1	C-NO	C-NC	C-NC
	2	C-NC	C-NC	C-NO
3	1	C-NO	C-NC	C-NC
	2	C-NC	C-NC	C-NO
	3	C-NO	C-NC	C-NC
4	1	C-NC	None	C-NO
	2	C-NC		C-NO
	3	C-NC		C-NO
	4	C-NC		C-NO

Referenced documents. In addition to [MIL-PRF-8805](#), this document references the following:

[MIL-PRF-8805/2](#)
[MIL-STD-202-213](#)
[MS25081](#)
[MS25082](#)
[NASM35333](#)

The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the previous issue.

Custodians:

Army - CR
Navy - EC
Air Force – 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5930-2025-052)

Review activities:

Army – AR, MI
Navy – AS, MC, OS
Air Force – 19

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.dla.mil/>.