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INCH-POUND

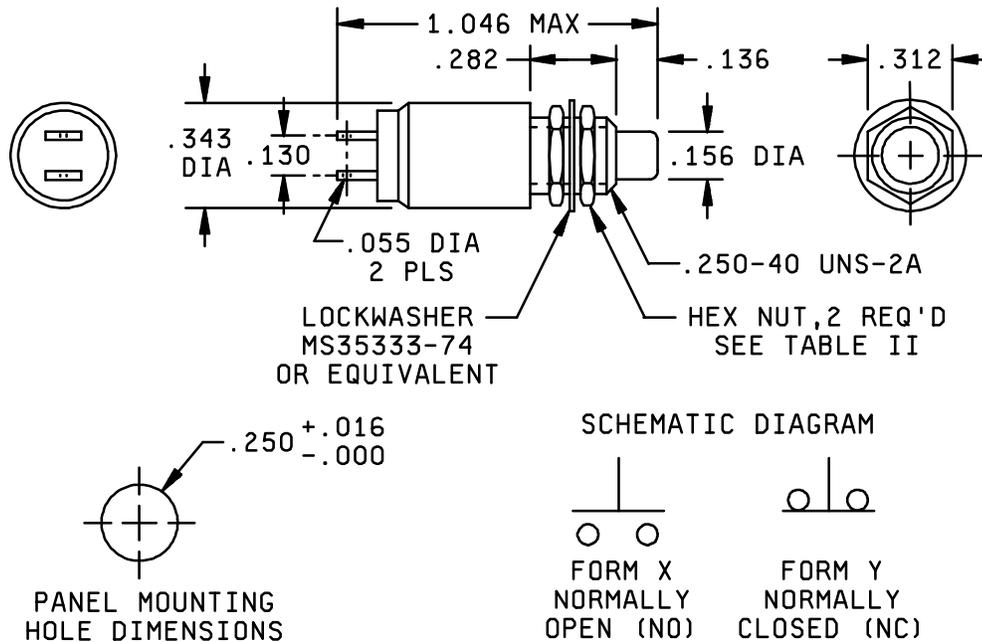
  
 MIL-PRF-8805/96D  
 3 September 1999  
 SUPERSEDING  
 MIL-S-8805/96C  
 10 November 1989

PERFORMANCE SPECIFICATION SHEET

SWITCHES, PUSH, MOMENTARY, SPST, 5 AMPERES

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

The requirements for acquiring the product described herein  
 shall consist of this specification and MIL-PRF-8805



NOTES:

1. Dimensions are in inches.
2. Metric equivalent are given for general information only.
3. Unless otherwise specified, tolerance is  $\pm 0.015$  inch (0.38 mm).

Inches	mm
.015	0.38
.016	0.41
.055	1.39
.130	3.30
.136	3.45
.156	3.96
.250	6.35
.282	7.16
.312	7.92
.343	8.71
1.046	26.5

FIGURE 1. Dimensions and configurations.

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REQUIREMENTS:

Dimensions and configurations: See figure 1.

Enclosure design: See table II.

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

Shock: MIL-STD-202, method 213, test condition C, 100 g, (half-sine).

Vibration grade: 2 (10 Hz to 2000 Hz, 15 g peak).

Weight: .010 pound maximum.

Operating characteristics:

Total plunger travel: .095 inch  $\pm$ .015.

Operating force:

Unsealed: 1.50  $\pm$ .5 pounds.

Dust tight: 1.75  $\pm$ .5 pounds.

Dielectric withstanding voltage:

Sea level: 1,000 V rms minimum initial. Following electrical endurance -200 V rms minimum.

Mechanical endurance: 50,000 cycles.

Low temperature cycling rate: 10 to 15 cycles per minute.

Electrical endurance: 25,000 cycles.

Electrical ratings: See table I.

TABLE I. Electrical ratings.

Loads	28 V dc	115 V ac, 60 Hz
Resistive	5.0 amperes	5.0 amperes
Inductive	2.0 amperes	2.0 amperes

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Military part numbers: See table II.

TABLE II. Part numbers and characteristics.

Part number M8805/96	Plunger cap color	Circuit characteristics	Case color	Hex nut	Enclosure design
-001	Red	SPST-NO	Clear	<u>2/</u>	1 (unsealed)
-002	Black	SPST-NO	Clear	<u>2/</u>	1 (unsealed)
-003	Red	SPST-NC	Clear	<u>2/</u>	1 (unsealed)
-004	Black	SPST-NC	Clear	<u>2/</u>	1 (unsealed)
-005	Red	SPST-NO	Black	<u>1/</u>	1 (unsealed)
-006	Black	SPST-NO	Black	<u>1/</u>	1 (unsealed)
-007	Red	SPST-NC	Black	<u>1/</u>	1 (unsealed)
-008	Black	SPST-NC	Black	<u>1/</u>	1 (unsealed)
-009	Red	SPST-NO	Clear	<u>2/</u>	2 (dust tight)
-010	Black	SPST-NO	Clear	<u>2/</u>	2 (dust tight)
-011	Red	SPST-NC	Clear	<u>2/</u>	2 (dust tight)
-012	Black	SPST-NC	Clear	<u>2/</u>	2 (dust tight)
-013	Red	SPST-NO	Black	<u>1/</u>	2 (dust tight)
-014	Black	SPST-NO	Black	<u>1/</u>	2 (dust tight)
-015	Red	SPST-NC	Black	<u>1/</u>	2 (dust tight)
-016	Black	SPST-NC	Black	<u>1/</u>	2 (dust tight)

1/ MS25082-C14 or equivalent with black finish. Alternative base metals and protective finishes, as approved by the qualifying activity, may be utilized for hardware material.

2/ MS25082-C14 or equivalent. Alternative base metals and protective finishes, as approved by the qualifying activity, may be utilized for hardware material.

Qualification:

Group submission – See table III.

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TABLE III. Group qualification inspection.

Switches for testing	Number of sample units	Qualification inspection table of MIL-PRF-8805	Extent of approval
M8805/96-001	20	Group I All samples Group II 4 samples Group IV 2 samples Group V 2 samples Group VI 4 samples Group VII 8 samples	M8805/96-001 through M8805/96-016
M8805/96-004	8	Group I All samples Group VII 8 samples	
M8805/96-006	2	Group I All samples (visual and mechanical examination only) Group IV 2 samples	
M8805/96-009	12	Group I All samples Group II 4 samples Group III 2 samples Group VI 4 samples Group VIII 2 samples	

Revision letters are not used to denote changes due to the extensiveness of the changes.

Custodians:  
Army - CR  
Navy - EC  
Air Force – 11  
DLA - CC

Preparing activity:  
DLA - CC

(Project 5930-1691-027)

Review activities:  
Army - AR, AV, MI  
Navy - AS, MC, OS, SH  
Air Force - 19, 99