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INCH-POUND

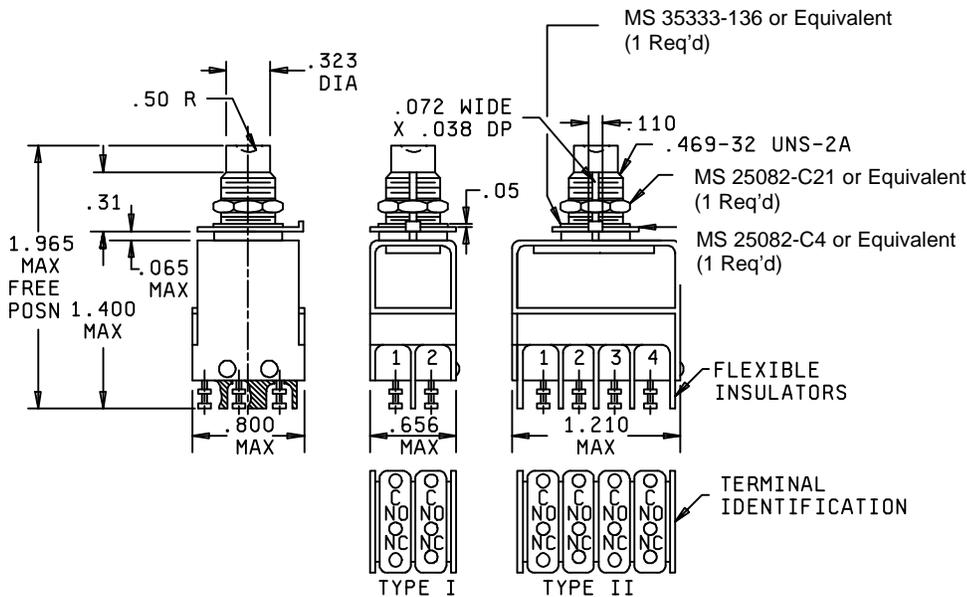
MIL-PRF-8805/25E  
 3 September 1999  
 SUPERSEDING  
 MIL-S-8805/25D  
 23 July 1973

PERFORMANCE SPECIFICATION SHEET

SWITCHES, PUSH, MOMENTARY, 2 CIRCUIT, UNSEALED AND SEALED

This specification forms a part of MIL-PRF-8805, dated 23 January 1998, and 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.



Inches	mm	Inches	mm
.038	0.97	.50	12.70
.065	1.65	.656	16.66
.072	1.83	.800	20.32
.110	2.79	1.210	30.73
.31	7.87	1.400	35.56
.323	8.20	1.965	49.91
.469	11.91		

NOTES:

1. Dimensions are in inches.
2. Unless otherwise stated, tolerance is  $\pm 0.015$  (0.38 mm).
3. Metric equivalents are given for general information only.
4. Basic switch number shall be permanently marked as shown.
5. Alternative base metals and protective finishes, as approved by the qualifying activity, may be utilized for hexagon nut, key washer and lock washer material. Dimensions shall be in accordance with the referenced hardware specification.

FIGURE 1. Dimensions and configurations.

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REQUIREMENTS:

Dimensions and configurations: See figure 1.

Enclosure design: 1 (unsealed).

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

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

Vibration grade: 1 (10 to 500 Hz)

Weight: See table I.

Operating characteristics:

Operation: Alternate action.

Coincidence of operation or releasing points: All poles shall have transferred within .010 inch of plunger travel.

Total plunger travel: .085 inch approximately (information only).

Operating force: See table I.

Switch assembly: Basic switch shall be MS25085-2 (MIL-S-8805/2) switch listed on QPL-8805 and may have integral leaf actuator.

Mechanical endurance: 50,000 cycles.

Electrical endurance: 25,000 cycles.

Electrical ratings: See table II.

Qualification inspection (group submission): See table III.

TABLE I. Part numbers and characteristics.

Part number	Type	Circuit characteristic	Operating force	Weight	Button color
			lb max	lb max	
M8805/25-001	I	2PDT	6	.060	Black
M8805/25-002	I	2PDT	6	.060	Red
M8805/25-003	II	4PDT	7	.100	Black
M8805/25-004	II	4PDT	7	.100	Red

TABLE II. Electrical ratings.

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

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TABLE III. 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	M8805/25-004 (12 sample units)	(2 sample units each): M8805/25-001 M8805/25-002 M8805/25-003 (tested to group I only)	All
<u>Group II</u> Strength of actuating means <u>1/</u> Strength of mounting bushing <u>1/</u> 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 only) Mechanical endurance at low temperature (2 units) <u>2/</u> Mechanical endurance at high temperature (2 sample units only) 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)	- - -	

1/ Two sample units only.

2/ Same sample units as for low temperature operation.

Custodians:

Air Force - 11  
 Army - CR  
 DLA - CC  
 Navy - EC

Preparing activity:  
 DLA - CC

(Project 5930-1691-011)

Review activities:

Air Force - 19, 99  
 Army - AR, AV, MI  
 Navy - AS, OS, MC