

INCH-POUND  
MIL-PRF-8805/44E  
19 September, 2000  
SUPERSEDING  
MIL-S-8805/44D  
3 July 1974

PERFORMANCE SPECIFICATION SHEET  
SWITCHES, SENSITIVE, SPST, 5 AMPERES, RESILIENT SEAL

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.

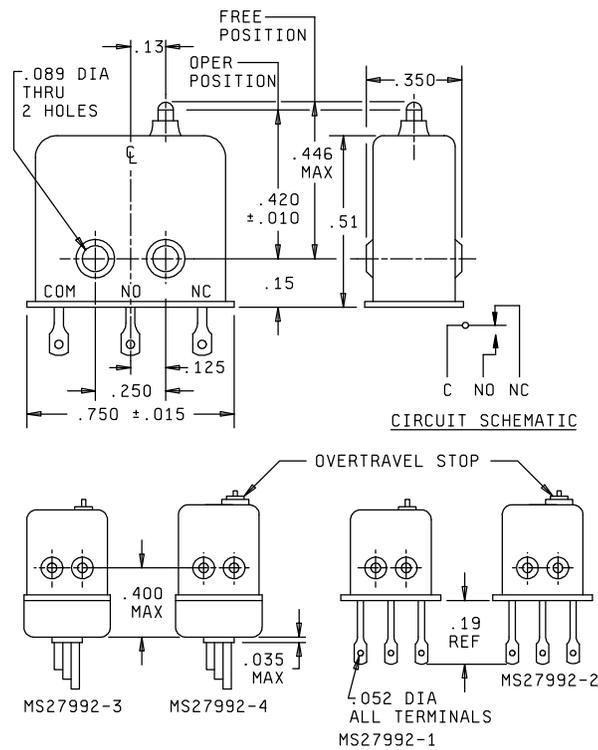


FIGURE 1. Dimensions and configuration.

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Inches	mm	Inches	mm	Inches	Mm
.005	0.13	.089	2.26	.350	8.89
.010	0.25	.125	3.18	.400	10.16
.015	0.38	.130	3.30	.420	10.67
.020	0.51	.150	3.81	.446	11.33
.035	0.89	.190	4.83	.510	12.95
.052	1.32	.250	6.35	.750	19.05

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are  $\pm 0.02$  (0.51 mm) for two place decimals and  $\pm 0.005$  (.13mm) for 3 place decimals.
4. Switch configuration optional provided dimensions specified are not exceeded.
5. Insulated conductors in accordance with M5086/1-22 or equivalent, 18 inches long.

FIGURE 1. Dimensions and configuration - Continued.

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REQUIREMENTS:

Dimensions and configurations: See figure 1.

Enclosure design: 4 (resilient).

Temperature characteristic:

MS27992-1: (- 55°C to + 125°C).

MS27992-2: (- 55°C to + 125°C).

MS27992-3: 1 (- 55°C to + 85°C).

MS27992-4: 1 (- 55°C to + 85°C).

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

Vibration grade: 2 (10 Hz to 2,000 Hz ).

Weight: See table I.

Operating characteristics: See table I.

Contact resistance: 80 milliohms maximum.

Dielectric withstanding voltage:

Sea level: 1,250 V rms for one second.

Seal test: Only water tight test shall be performed in group A. Switches need not be removed from underwater during test.

Mechanical endurance: 100,000 cycles.

Electrical endurance: 50,000 cycles.

Electrical ratings: See table II.

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

Quality assurance: Group B inspection – See table IV.

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TABLE I. PIN's and operating characteristics.

PIN	Actuating force	Releasing force	Movement differential	Over travel	Weight	Weight with wire	Termination
MS27992-1	10 oz. Max.	2 oz. Min.	.005 inch max.	.007 inch max. <sup>1/</sup>	.02 pound max.	-	Solder
MS27992-2	10 oz. Max.	2 oz. Min.	.005 inch max.	.006 inch min. .010 inch max.	.02 pound	-	Solder
MS27992-3	10 oz. Max.	2 oz. Min.	.005 inch max.	.007 inch max. <sup>1/</sup>	-	.0616 pound max.	Lead wire
MS27992-4	10 oz. Max.	2 oz. Min.	.005 inch max.	.006 inch min. .010 inch max.	-	.0616 pound max.	Lead wire

<sup>1/</sup> Overtravel stop not provided. In use, do not exceed.

TABLE II. Electrical ratings.

Load	Sea level		50,000 feet
	28 V dc	115 V ac 400 Hz	28 V dc
	Amperes	Amperes	Amperes
Resistive	5	5	5
Inductive	3	3	3
Lamp	1.5	1.5	1.5

TABLE III. Qualification group submission.

Examination or test	Basic test	Other switch samples	Extent of approval
Qualification inspection table of MIL-PRF-8805 Groups I. through VIII. Inclusive	MS27992-2 (All sample units)	MS27992-1,-3,-4 (3 sample units) Visual and mechanical inspection	All

TABLE IV. Group B inspection.

Examination or test	Basic switch	Other switches
Group B inspection table of MIL-PRF-8805 group I. through IV.	MS27992-2 (All sample units)	MS27992-1,-3,-4 (3 sample units) Visual and mechanical inspection

Custodians:

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

Preparing activity:

DLA - CC

(Project 5930-1697)

Review activities:

Army – AR, AV, CR4, MI  
Navy – AS, MC, OS, SH  
Air force - 99