

PERFORMANCE SPECIFICATION SHEET

SWITCHES, SENSITIVE, DPDT, PLUNGER, 5 AMPERES, RESILIENT SEAL

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

The complete requirements for acquiring the switches described herein shall consist of this specification and the latest issue of MIL-PRF-8805.

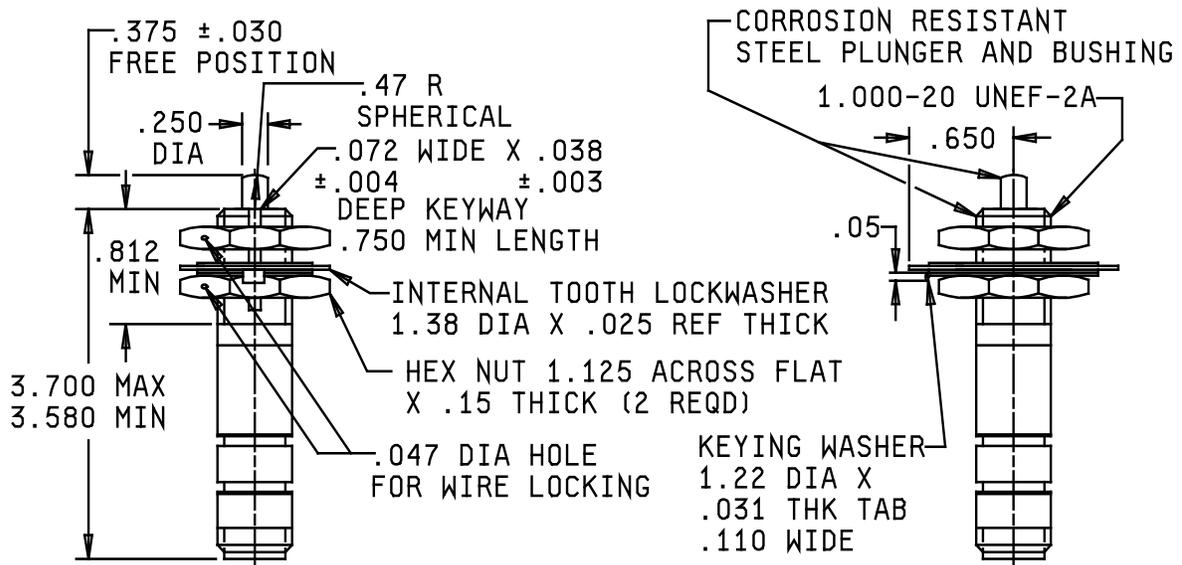
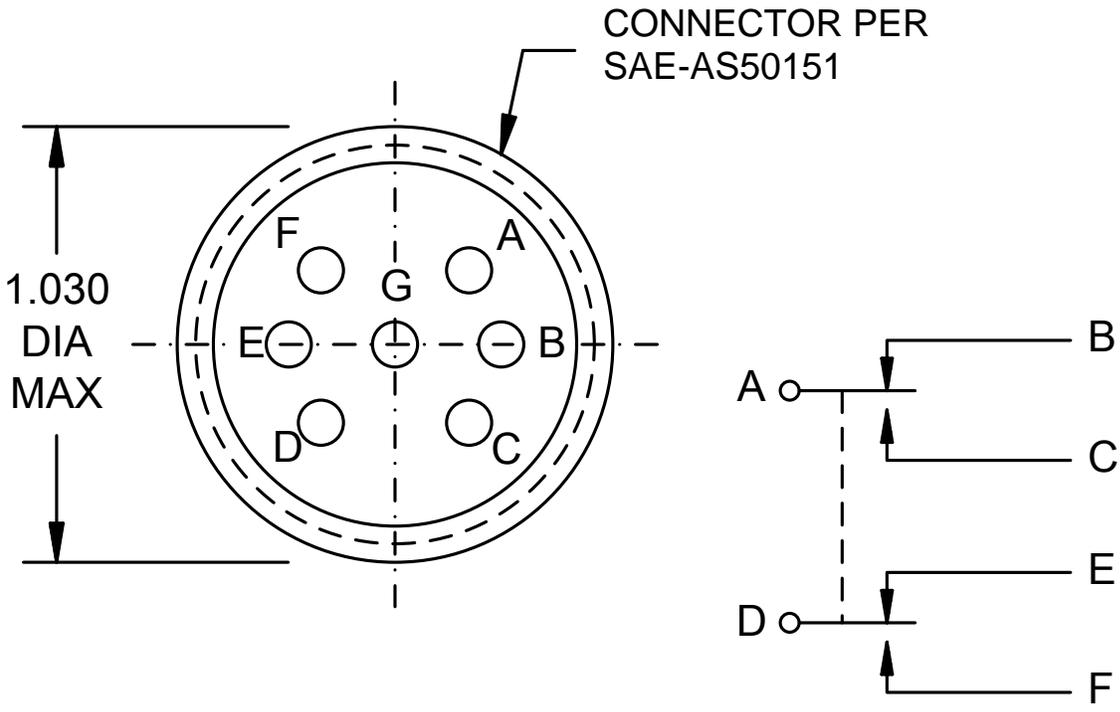


FIGURE 1. Dimensions and configurations.





**CIRCUIT SCHEMATIC**

Inches	mm	Inches	mm
.003	0.08	.375	9.53
.004	0.10	.470	11.94
.025	0.64	.650	16.51
.030	0.76	.750	19.05
.031	0.79	.812	20.62
.038	0.97	1.030	26.16
.047	1.19	1.125	28.58
.050	1.27	1.220	30.99
.072	1.83	1.380	35.05
.110	2.79	3.580	90.93
.150	3.81	3.700	93.38
.250	6.35		

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  $\pm 0.005$  (0.13 mm) for three place decimals.
4. Switch configuration optional provided dimensions specified are not exceeded.

FIGURE 1. Dimensions and configurations - Continued.

MIL-PRF-8805/65F

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Enclosure design: Four (resilient). All entrances to the switch cavity except through the actuator bushing shall be sealed by fusion of glass-to-metal, metal-to-metal, or ceramic-to-metal.

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

Shock type: H (High-impact). There shall be no opening of closed contacts in excess of 8 milliseconds.

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

Weight: 0.60 pound maximum.

Operating characteristics:

Actuating force: 6 to 12 pounds.

Pretravel: 0.040 inch maximum.

Movement differential: 0.020 inch maximum.

Overtravel: 0.250 inch minimum.

Finish: Switch housing shall be processed to resist corrosion.

Contact resistance: 0.5 ohms maximum measured with a 5 ampere test current and a 28 V dc test voltage.

Dielectric withstanding voltage: Sea level (1,000 V rms).

Seal test: Only watertight test shall be performed in group A.

Mechanical endurance: 25,000 cycles.

Electrical endurance: 25,000 cycles.

Electrical ratings: See table I.

Marking: The circuit schematic shall be permanently and legibly marked on the switch case.

Part or Identifying Number (PIN): M8805/65-001.

TABLE I. Electrical ratings.

Load	Sea level 28 V dc amperes
Resistive	5
Inductive	3
Motor	4

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where modifications from this revision 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.

Referenced Documents:

MIL-PRF-8805  
SAE-AS50151

Custodians:

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

Preparing activity:

DLA - CC

(Project 5930-2016-029)

Review activities:

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

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/>.