

INCH-POUND

MIL-PRF-8805/22D
31 October 2001
SUPERSEDING
MIL-S-8805/22C
30 June 1970

PERFORMANCE SPECIFICATION SHEET
SWITCHES, SENSITIVE, SPDT, 5 AMPERES, UNSEALED

INACTIVE FOR NEW DESIGN AFTER 30 JUNE 1970

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.

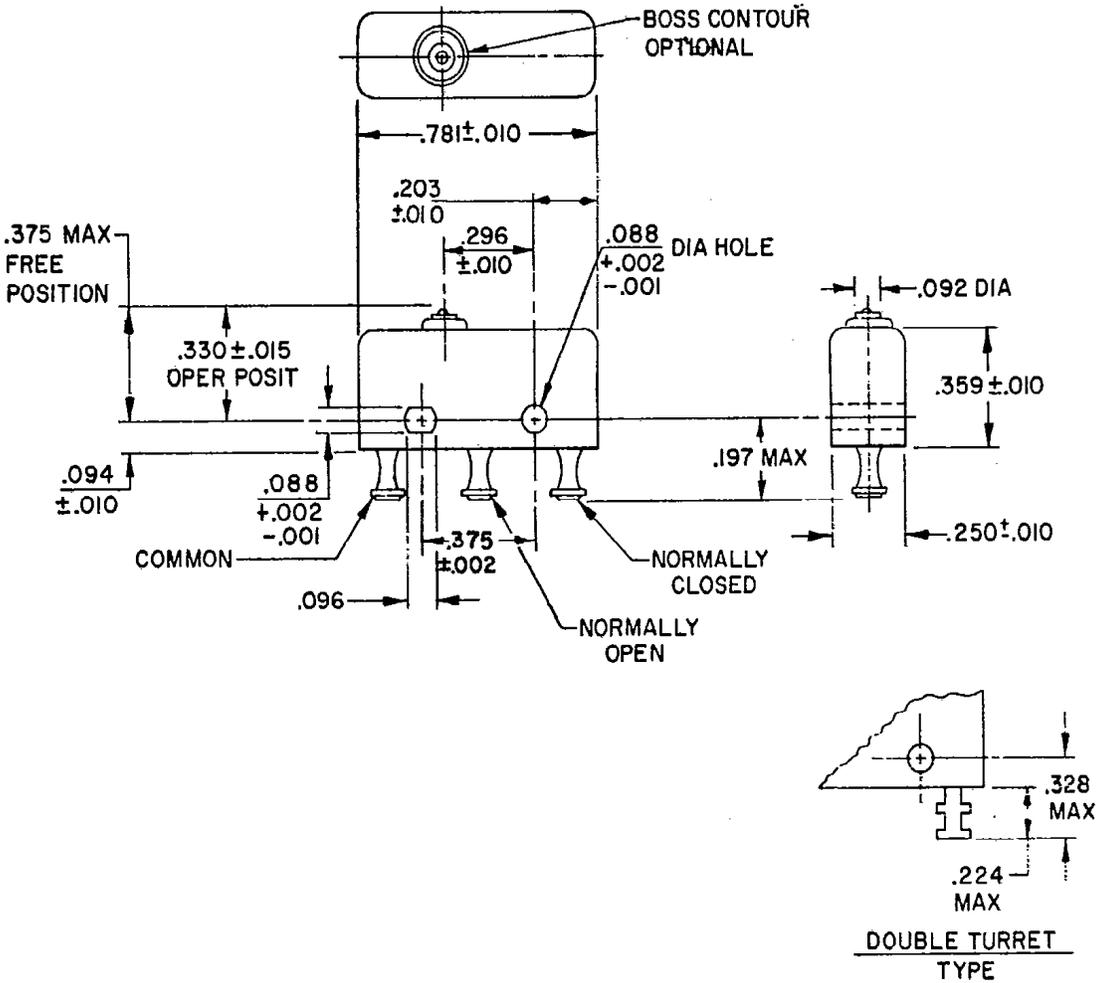


FIGURE 1. Dimensions and configurations.

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Inches	mm	Inches	mm	Inches	mm
.001	.03	.094	2.39	.296	7.52
.002	.05	.096	2.44	.328	8.33
.010	.25	.197	5.00	.330	8.38
.015	.38	.203	5.16	.359	9.12
.088	2.24	.224	5.69	.375	9.53
.092	2.34	.250	6.35	.781	19.84
					+

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is $\pm .005$ (.13 mm)
3. Mounting holes will accept .087 (2.21 mm) maximum diameter pins or screws on $.375 \pm .002$ (9.53 \pm .05 mm) centers.
4. Terminal contour and facing direction optional within maximum dimensions shown.
5. Cylindrical or flat type optional when double turret is specified. Must accept AN-20 wire (2) or equivalent.
6. Metric equivalents are given for general information only.

FIGURE 1. Dimensions and configurations -Continued.

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REQUIREMENTS:

Dimensions and configurations: See figure 1.

Enclosure design: 1 (unsealed).

Temperature characteristic: : 2 (-65°C to + 125°C).

Shock type: M(100 g's).

Vibration grade: 2 (10 to 2000 Hz).

Weight: 0.006 pound maximum.

Operating characteristics:

- Actuator force: 5 ounces maximum.
- Releasing force: 1 ounce minimum.
- Movement differential: .005 inch maximum.
- Pretravel: .025 inch maximum.
- Overtravel: .003 inch minimum.

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 is not applicable.

Minimum current: 25,000 cycles.

Mechanical endurance: 500,000 cycles

Electrical endurance: 25,000 cycles.

Electrical ratings: See table I.

Qualification:

Group submission: See table II

Quality assurance:

Group B: Not applicable.

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

Terminal style: See table III.

Terminal strength: 5 pounds.

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Table I. Electrical ratings.

Load	Sea level		50,000 feet
	28 V dc	115 V ac 60 Hz	28 V dc
	Amperes	Amperes	Amperes
Resistive	5.0	5.0	5.0
Inductive	3.0	5.0	2.5
Lamp	2.4	1.5	2.4

TABLE II. Qualification inspection.

Examination or test	Basic switch	Other switch samples	Extent of approval
Qualification inspection table of MIL-PRF-8805	M8805/22-001 (all sample units)	M8805/22-002 (2 sample units) 1. Terminal strength. 2. Dielectric withstanding voltage. 3. Visual and mechanical examination.	All

Table III. Part or Identifying Number (PIN) and terminal style.

PIN	Terminal style
M8805/22-001 M8805/22-002	Single turret Double turret

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

Preparing activity:
 DLA - CC
 (Project 5930-1126-07)

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