

INCH-POUND

MIL-S-8805/94B
21 May 1993

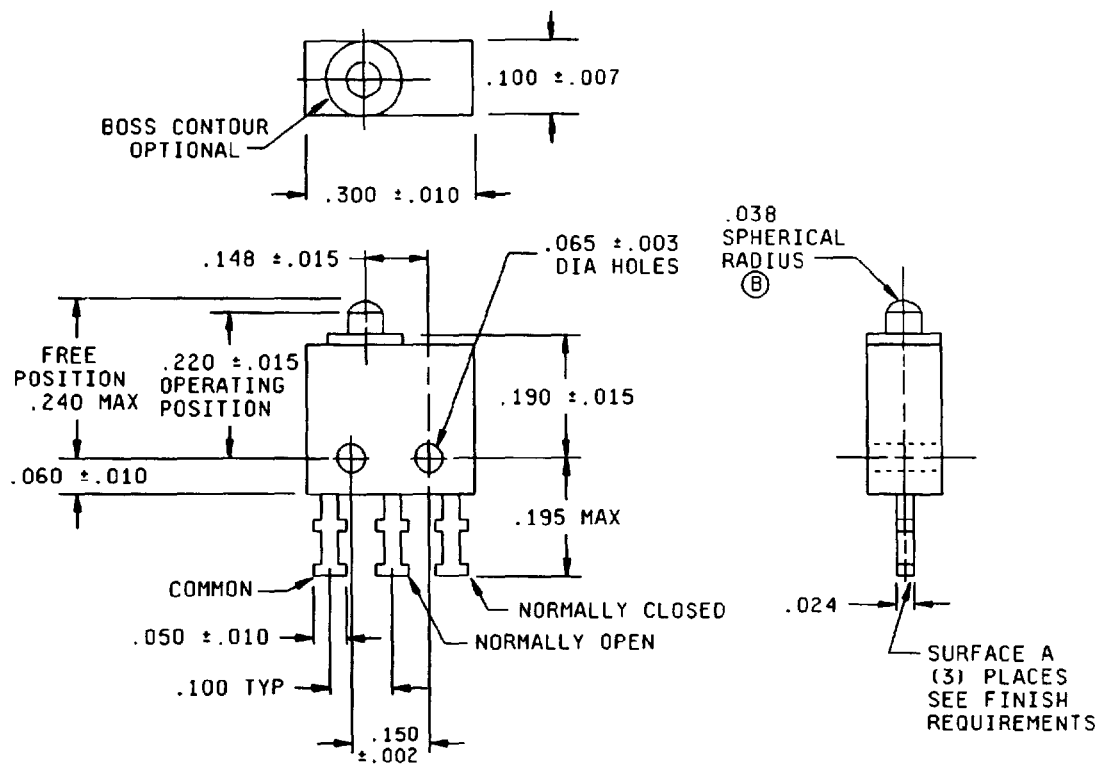
SUPERSEDING
MIL-S-8805/94A
4 April 1991

MILITARY SPECIFICATION SHEET

SWITCH, SENSITIVE, SUBMINIATURE (0.100 x 0.300), SPDT, UNSEALED,
2 AMPERES AND LOW LEVEL

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

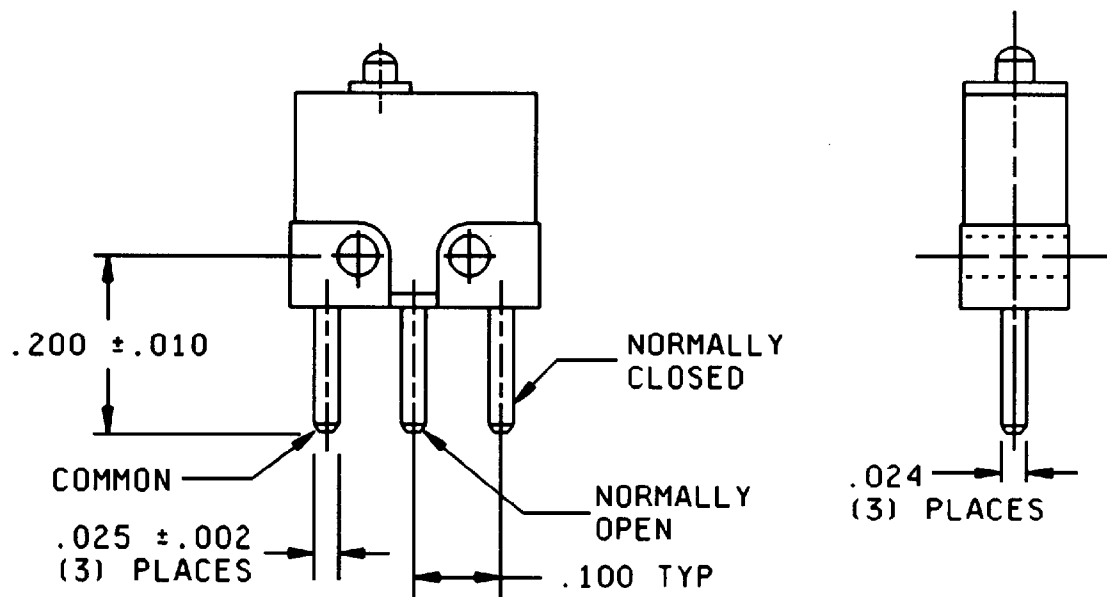
The requirements for acquiring the product described herein shall consist of this specification sheet and the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation: MIL-S-8805.



SWITCH WITH DOUBLE TURRET TERMINALS

FIGURE 1. Dimensions and configurations.

(B) denotes changes



SWITCH WITH PRINTED CIRCUIT BOARD COMPATIBLE TERMINALS

Inches	mm	Inches	mm
.002	0.05	.065	1.65
.003	0.08	.100	2.54
.005	0.13	.135	3.43
.007	0.18	.148	3.76
.010	0.25	.150	3.81
.015	0.33	.190	4.83
.024	0.61	.195	4.95
.025	0.64	.200	5.08
.038	0.97	.220	5.59
.050	1.27	.240	6.10
.060	1.52	.300	7.62

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is ± 0.005 .
4. Double turret type terminals shall accept two AN-26 wires.
5. Double turret terminal contour and facing direction is optional within envelope dimensions shown.
6. Except for terminals, dimensions and configuration for switch with printed circuit board compatible terminals are the same as turret terminal switch.
7. Switch and plunger contour are optional within the specified envelope dimensions.

FIGURE 1. Dimensions and configuration - Continued.

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Enclosure design: 1 (unsealed).

Temperature characteristic: -55°C to +125°C.

- ⑧ Shock: 150 g's, half-sine. Test condition C, method 213 of MIL-STD-202, except 150 g's peak value.

Vibration grade: 1 (10 to 2,000 Hz).

Weight: 0.003 pound maximum.

Operating characteristics:

- ⑧ Actuating force: 6 ounces maximum.

Releasing force: 0.7 ounce minimum.

Movement differential: 0.004 inch maximum.

Operating position: 0.220 ±.015 inch (see figure 1).

Overtravel: 0.003 inch minimum.

Strength of actuating means: 5 pounds.

Terminal strength: 1 pound.

Terminal finish: Gold plating, .000030 inch to .000100 inch may be used. Bottom-most surface of terminals, surface "A" of figure 1, need not be plated and need not pass solderability requirement.

Dielectric withstanding voltage:

At sea level: 1,000 V rms.

At reduced barometric pressure: 400 V rms at 50,000 feet (MIL-STD-202, method 105, test condition B).

Low level circuit: 25,000 cycles.

Logic level circuit: 50,000 cycles.

Mechanical endurance: 100,000 cycles.

Electrical endurance: 25,000 cycles.

Electrical ratings: See table I.

Part or Identifying Number (PIN):

Switch with turret terminals: M8805/94-001.

Switch with printed circuit board compatible terminals: M8805/94-002.

Qualification inspection (group submission): See table II.

Ⓑ TABLE I. Electrical ratings.

Load	Sea level 28 V dc	50,000 feet 28 V dc	Low level circuit 30 mV maximum	Logic level circuit 5 V dc
Resistive	amperes 2	amperes 2	milliamperes 10 maximum	milliamperes 10
Inductive	0.5	0.2	---	---

TABLE II. Qualification inspection (group submission).

Inspection	Samples	Extent of approval
Qualification inspection table of MIL-S-8805	M8805/94-001	M8805/94-001 and M8805/94-002
Visual and mechanical inspection Solderability Terminal strength Permanency of marking Dielectric withstanding voltage	M8805/94-002 (2 samples)	

CONCLUDING MATERIAL

Custodians:

Army - AR
Navy - EC

Preparing activity:

Army - AR

Review activities:

Army - MI
Navy - MC
DLA - ES

Agent:

DLA - ES

(Project 5930-1557)

User activities:

Navy - SH