

MIL-PRF-8805/31G

Inches	mm	Inches	mm	Inches	mm
.001	0.03	.152	3.86	.57	14.5
.002	0.05	.19	4.8	.615	15.62
.010	0.25	.22	5.6	.660	16.76
.020	0.51	.31	7.9	.70	17.8
.030	0.76	.420	10.67	.917	23.29
.031	0.79	.47	11.9	.92	23.4
.094	2.39	.510	12.95	1.000	25.40
.139	3.53	.540	13.72	1.950	49.43
.140	3.56				

NOTES:

1. Dimensions are in inches.
2. Unless otherwise stated, tolerance is ± 0.015 (0.38 mm).
3. Metric equivalents are given for general information only.
4. Exact shape of switch optional, provided dimensions specified are not exceeded.
5. Mounting holes shall accept .139 maximum diameter pins or screws on 1.000 ± 0.002 centers.
6. Alternative base metals and protective finishes, as approved by the qualifying activity, may be utilized for terminal screw and lock washer material. Dimensions shall be in accordance with the referenced hardware specifications.

FIGURE 1. Dimensions and configurations (continued).

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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: (30 g's) in accordance with method 213, test condition J, MIL-STD-202.

Vibration grade: 1 (10 to 55 Hz) in accordance with method 201, MIL-STD-202.

Weight: 1.5 ounces maximum.

Operating characteristics:

Actuating force: 20 ounces maximum.

Release force: 2 ounces minimum.

Movement differential: .040 inch to .060 inch (1.02 mm to 1.52 mm).

Overtravel: .005 inch (0.13 mm) minimum.

Pretravel: .075 inch (1.91 mm) maximum.

Contact resistance: Not applicable.

Dielectric withstanding voltage:

Sea level: 1,000 V rms.

Altitude: 400 V rms at 50,000 feet.

Mechanical endurance: 50,000 cycles.

Electrical endurance: 25,000 cycles.

Temperature rise: 65°C.

Electrical ratings: See table I.

Part or Identifying Number (PIN): MS25008-1.

TABLE I. Electrical ratings.

Load	Sea level 28 V dc	50,000 feet 28 V dc
	amperes	amperes
Resistive	10	10
Inductive	5	2
Motor	5	5

Custodians:

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

Preparing activity:
DLA - CC

(Project 5930-1757)

Review activities:

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