INCH-POUND
MIL-PRF-8805/76H
4 October 2004
SUPERSEDING
MIL-PRF-8805/76G
3 September 1999

PERFORMANCE SPECIFICATION SHEET

SWITCHES, SENSITIVE, 2 CIRCUIT (5 AMPERES) OR SPST (8 AMPERES), UNSEALED

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.

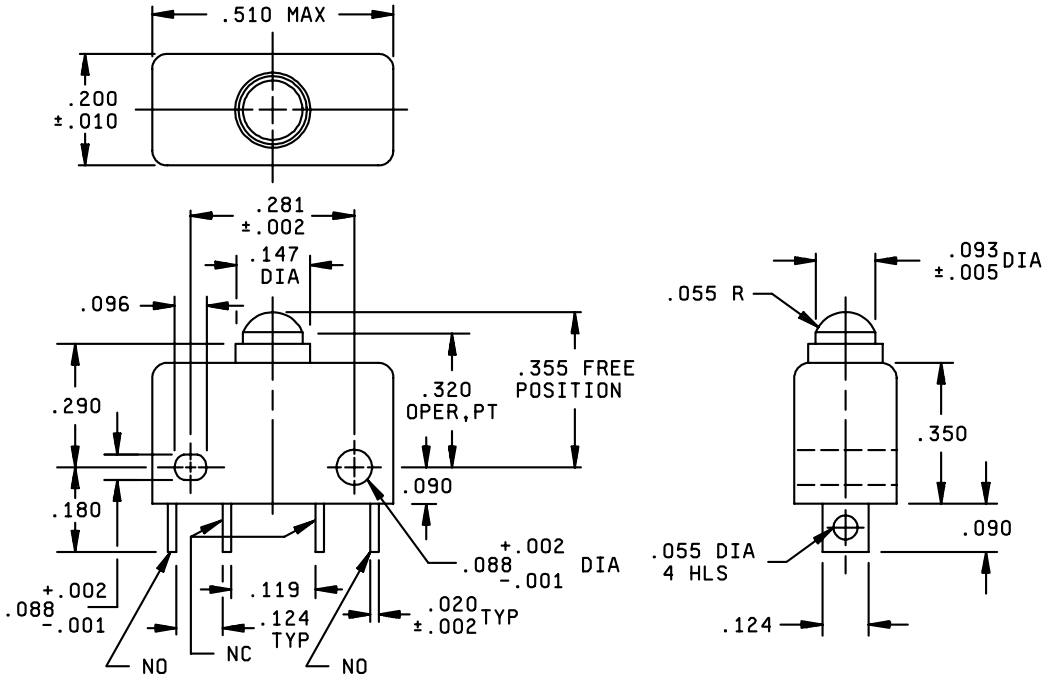
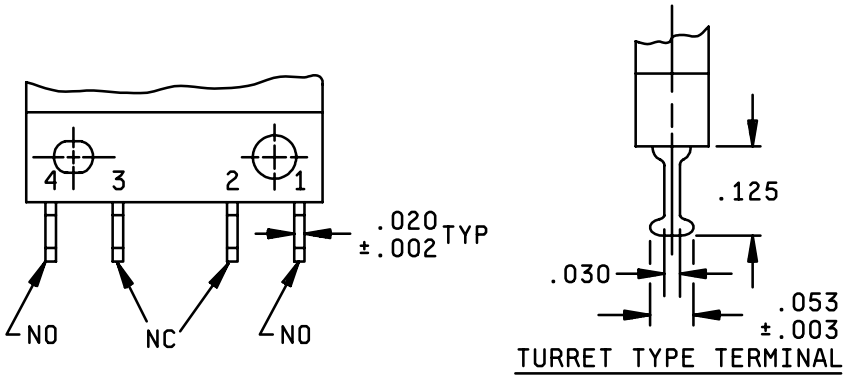
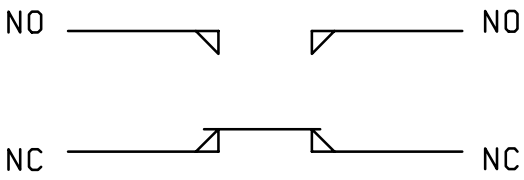


FIGURE 1. Dimensions and configuration.





CIRCUIT SCHEMATIC

2 CIRCUIT

Inches	mm	Inches	mm
.001	0.03	.096	2.44
.002	0.05	.119	3.02
.003	0.08	.124	3.15
.005	0.13	.125	3.18
.010	0.25	.147	3.73
.020	0.51	.200	5.08
.030	0.76	.281	7.14
.053	1.35	.320	8.13
.055	1.40	.350	9.02
.088	2.24	.355	9.03
.090	2.29	.510	12.95
.093	2.36		

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is ±.015 (0.38 mm).

FIGURE 1. Dimensions and configuration - Continued.

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Enclosure design: 1 (unsealed).

Temperature characteristic: 2 (-65°C to +125°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: .003 pound maximum.

Operating characteristics:

Free position: .355 inch ±.015 (see figure 1).

Actuating force: 8 ounces maximum, ±20 percent variation from specified values acceptable after test.

Overtravel: .004 inch minimum, ±20 percent variation from specified values acceptable after test.

Movement differential: .010 inch minimum, ±20 percent variation from specified values acceptable after test.

Operating point: .320 inch ±.015 inch (see figure 1).

Strength of actuator: 10 pounds.

Terminal strength: 5 pounds, all directions.

Dielectric withstanding voltage:

Sea level: 1,000 V rms initial.

1,000 V rms between all terminals and mounting plate after endurance test.

Altitude: 70,000 feet - 400 V rms.

Mechanical endurance: 100,000 cycles.

Electrical endurance: 50,000 cycles.

Electrical ratings: See table I.

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

TABLE I. Electrical ratings.

Load	Sea level, 28 V dc		70,000 feet, 28 V dc	
	SPST (NO or NC)	2 circuit	SPST (NO or NC)	2 circuit
	(amperes)	(amperes)	(amperes)	(amperes)
Resistive	8	5	8	5
Inductive	5	3	3	2
Motor	5	---	---	---
Lamp	1	---	---	---

TABLE II. PIN and terminal configurations.

PIN	Terminal configuration
MS27257-1	Spade type
MS27257-2	Turret type

NOTE: MS27257 was superseded by MIL-PRF-8805/47; the MS27257 Part Numbers (PINS) were retained.

QUALIFICATION:

Group submission: See table III.

TABLE III. Group submission.

PIN	Examination or test	Extent of approval
MS27257-1	Qualification inspection table of MIL-PRF-8850	All
MS27257-2 (2 sample units)	Visual and mechanical examination Terminal strength Dielectric withstanding voltage Operating characteristics	

Marginal notations are not used in this revision to identify changes with respect to the previous issue.

Referenced Documents:
MIL-PRF-8805
MIL-STD-202

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

Preparing activity:
DLA - CC

(Project 5930-1854)

Review activities:
Army - AR, AV, MI
Navy - AS, MC, OS, 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 www.dodssp.daps.mil.