



DEFENSE LOGISTICS AGENCY
DEFENSE SUPPLY CENTER, COLUMBUS
POST OFFICE BOX 3990
COLUMBUS, OH 43216-5000

IN REPLY
REFER TO

DSCC-VAT

1 July 2004

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Initial Draft of MIL-PRF-8805 /11J, /14F, /15G, /17G, /18G, /19F, /23G, /25F, /34E, /38G, /40H, /47G, /48H, /49H, /65D, /76H, /84E, /90F, /96E, /100F, /101K, /104C, /107C, /110D, and /114C.
Project numbers 5930-1838 through -1863.

The drafts of the above subject documents are being sent to you for review and comments. These drafts consist of the following changes:

Updating of referenced documents.
Incorporation of amendments.

If these documents are of interest to you, please provide your comments electronically. This can be in the form of a return e-mail, with or without an attached text file. A 45-day coordination cycle from the date of this letter has been allotted. Please provide your comments within that time period. If no comments are received in the allotted 45 day coordination cycle, concurrence is assumed and all comments received after will be held to the first amendment. If an electronic response is not possible we will still accept comments via letter, facsimile or phone call but only after you have contacted the project officer listed below. The draft documents can be found at the following DSCC-VA web page:

www.dsccl.dla.mil/Programs/MilSpec/initialdrafts.asp

This process still requires military departments to identify their comments as "Essential" or "Suggested". Essential comments must be justified with supporting data. Military review activities should forward comments to their custodians or this office, as applicable, in sufficient time to allow for consolidating the department reply.

If there are any questions, please contact Mark Rush by the preferred method of E-Mail at Mark.Rush@dla.mil or by telephone at commercial 614-692-0550, DSN 850-0550; or by facsimile at 614-693-1644. Our mailing address as a last resort is Defense Supply Center, Columbus, DSCC-VAT, P.O. Box 3990, Columbus, OH 43216-5000. If you have further questions or concerns you may contact me at Kendall.Cottongim@dla.mil, by telephone at 614-692-0676 or by facsimile at 614-692-6939.

/ SIGNED /
KENDALL A. COTTONGIM
Chief
Electronics Components Team

NOTE: This draft, dated July 1, 2004 prepared by DLA-CC, has not been approved and is subject to modification. DO NOT USE PRIOR TO APPROVAL. (Project 5930-1843)

INCH-POUND

MIL-PRF-8805/19F
DRAFT

SUPERSEDING
MIL-PRF-8805/19E
3 September 1999

PERFORMANCE SPECIFICATION SHEET

SWITCHES, SENSITIVE-MOMENTARY, 2 CIRCUIT, 40 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.

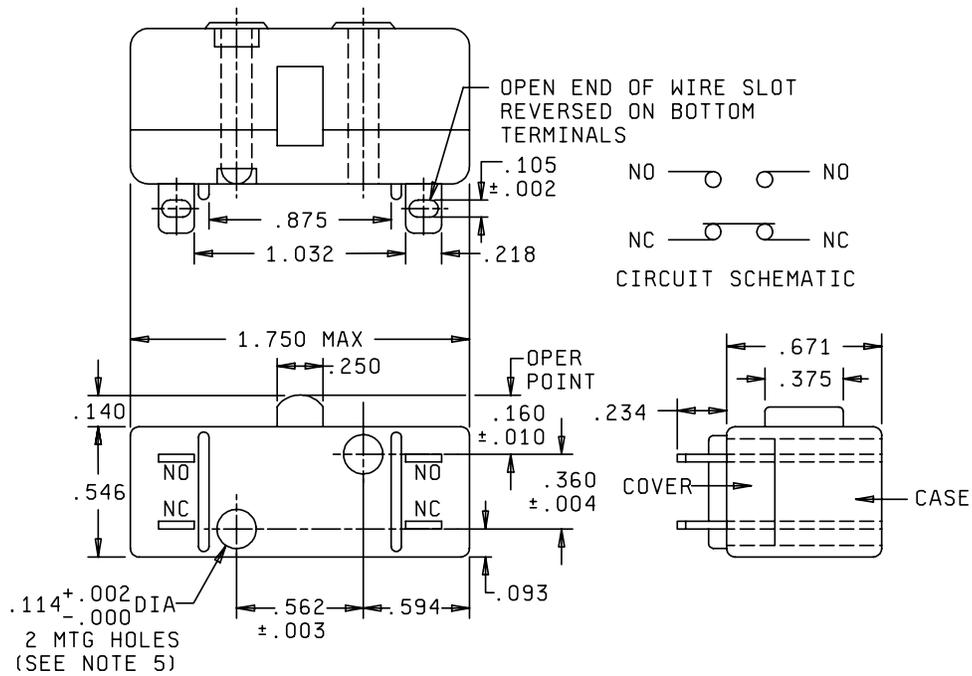
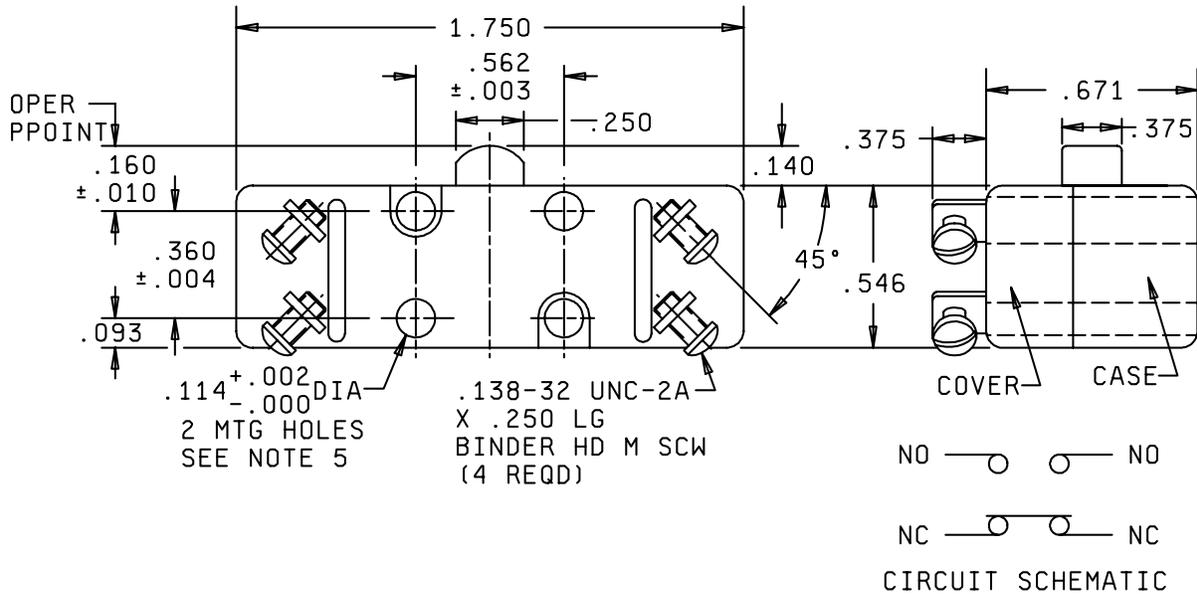


FIGURE 1. Dimensions and configurations.

MIL-PRF-8805/19F



MS25357-2

NOTES:

1. Dimensions are in inches.
2. Unless otherwise stated, tolerance is ± 0.015 (0.38 mm).
3. Exact shape of switch optional provided dimensions specified are not exceeded.
4. Metric equivalents are given for general information only.
5. Dimensions shown are case mounting holes. Cover mounting holes may exceed these dimensions by .010 (.25 mm) maximum.
6. Application note: Strain relief should be provided for lead wires within 6.000 (152.40 mm) of switch terminals.
7. MS25357 was superseded by MIL-PRF-8805/19; the MS25357 Part Numbers (PINS) were retained.

Inches	mm	Inches	mm
.002	0.05	.250	6.35
.003	0.08	.360	9.14
.004	0.13	.375	9.53
.010	0.25	.546	13.87
.093	2.36	.562	14.27
.105	2.67	.594	15.09
.114	2.90	.671	17.04
.140	3.56	.875	22.23
.160	4.06	1.032	26.21
.218	5.54	1.750	44.45
.234	5.94		

FIGURE 1. Dimensions and configurations (continued).

MIL-PRF-8805/19F

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Enclosure design: 1 (unsealed).

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

Shock type: Method 213, test condition A, MIL-STD-202 (50 g).

Vibration grade: 1 (10 to 500 Hz)

Weight: .06 pound maximum.

Operating characteristics:

Actuating force 3.18 pounds maximum

Movement differential065 inch maximum.

Pretravel093 inch maximum.

Overtravel015 inch minimum.

Strength of actuating means: 25 pounds.

Terminal strength: 5 pounds (-1); 5 pound pull and 5 pound-inch torque (-2).

Mechanical endurance: 100,000 cycles.

Electrical endurance: 50,000 cycles.

Electrical ratings: See table I.

Short circuit: 1,200 amperes.

Dielectric withstanding voltage: 1,000 Vrms; 1,000 Vrms between all terminals and mounting plate, and 200 Vrms between all terminals following electrical endurance.

Temperature rise: Using No. 8 wire, the temperature rise measured at the switch terminals shall not exceed 50°C above the wire temperature measured a minimum of 12 inches from any connection.

Qualification:

Group submission: See table II.

Part number: See table III.

TABLE I. Electrical ratings.

Load	Sea level	
	28 V dc	115 V ac, 400 Hz
	amperes	amperes
Resistive	40	30
Inductive	30	20
Motor	15	10

MIL-PRF-8805/19F

TABLE II. Qualification inspection.

Examination or test	Basic switch	Other switch samples	Extent of approval
Qualification inspection table of MIL-PRF-8805	MS25357-1	MS25357-2 (2 sample units) 1. Terminal strength 2. Dielectric withstanding voltage 3. Visual and mechanical examination.	All

TABLE III. Part numbers and characteristics.

Part number	Terminal configuration
MS25357-1	Solder
MS25357-2	Screw

NOTE: MS25357 was superseded by MIL-PRF-8805/19; the MS25357 Part Numbers (PINS) were retained.

Referenced Documents:

MIL-PRF-8805
MIL-STD-202

Custodians:

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

Preparing activity:
DLA - CC

(Project 5930-1843)

Review activities:

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

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.