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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 5930-1863)

INCH-POUND
MIL-PRF-8805/114C
DRAFT
SUPERSEDING
MIL-PRF-8805/114B
3 September 1999

PERFORMANCE SPECIFICATION SHEET

SWITCH ASSEMBLY, SENSITIVE, ROLLER PLUNGER, SPDT, 7 AMPERES, WATERTIGHT SEAL

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.

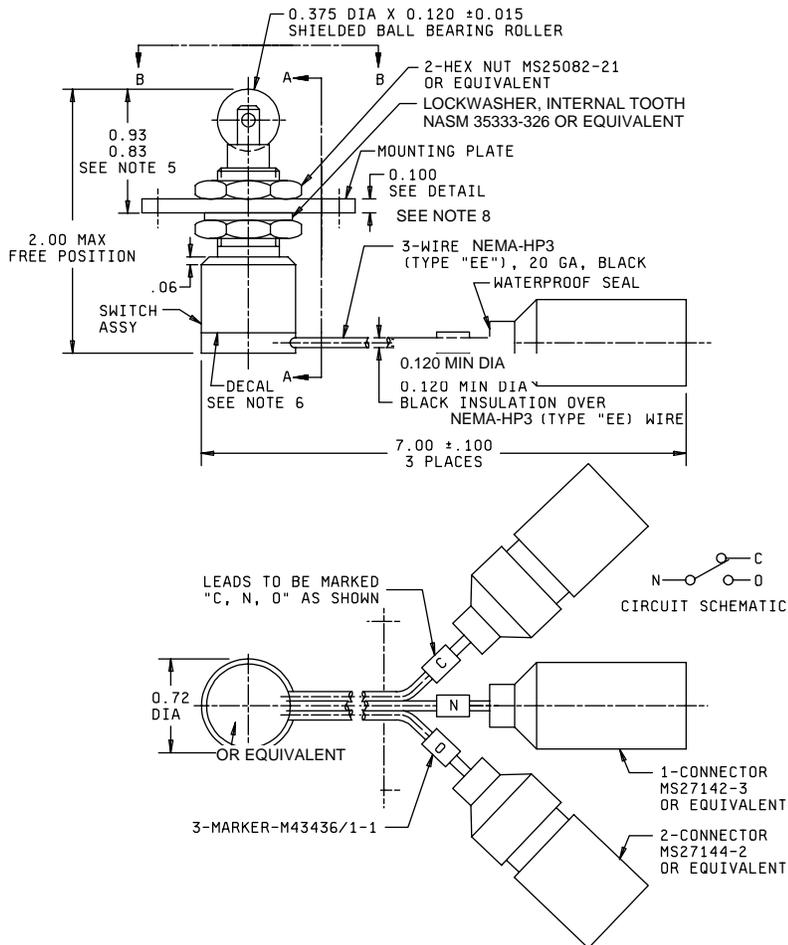
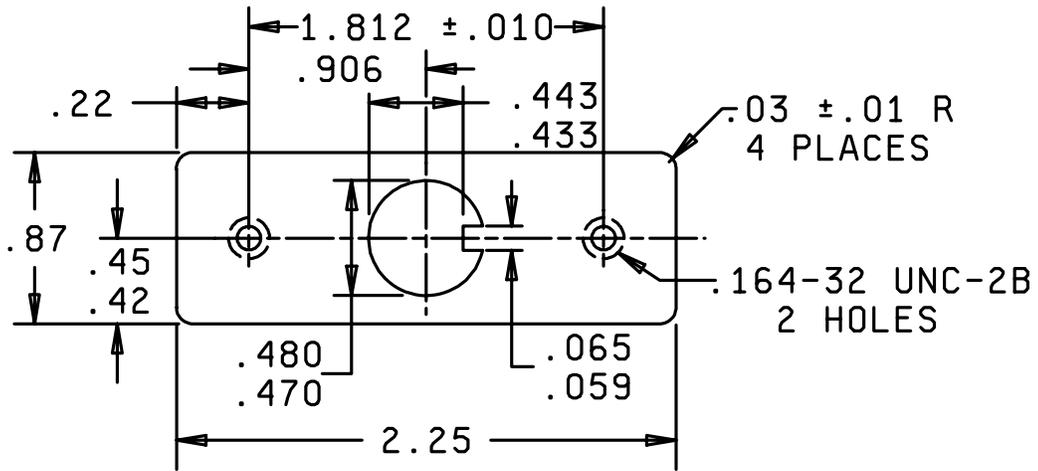
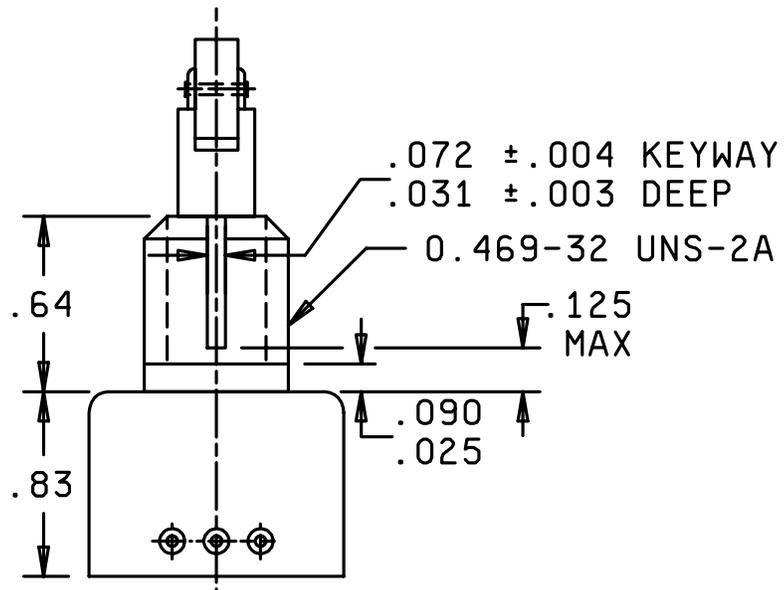


FIGURE 1. Dimensions and configuration.



VIEW B-B

DETAIL OF MOUNTING PLATE, 0.100 THICK



VIEW A-A

LESS MOUNTING HARDWARE AND DECAL

FIGURE 1. Dimensions and configuration - Continued.

MIL-PRF-8805/114C

Inches	mm	Inches	mm
0.003	0.08	0.375	9.53
0.004	0.10	0.42	10.67
0.005	0.13	0.433	11.00
0.010	0.25	0.443	11.25
0.015	0.38	0.45	11.43
0.025	0.64	0.469	11.91
0.03	0.76	0.470	11.94
0.031	0.79	0.480	12.19
0.059	1.50	0.56	14.22
0.06	1.52	0.64	16.26
0.065	1.65	0.72	18.29
0.072	1.83	0.83	21.08
0.090	2.29	0.87	22.10
0.100	2.54	0.93	23.62
0.120	3.05	0.906	23.01
0.125	3.18	1.00	25.40
0.164	4.17	1.56	39.62
0.22	5.59	1.812	46.02
0.26	6.60	2.00	50.80
0.36	9.14	2.25	57.15
		7.00	177.80

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance (in inches) is 0.03 for 2 place decimals and 0.005 for 3 place decimals.
4. Exact shape of switch optional within envelope dimensions shown.
5. Mounting plate shall be positioned between indicated dimensions.
6. Decal: Pressure sensitive, aggressive tack type, using permanent adhesive.
7. Alternative base metals and protective finishes, as approved by the qualifying activity, may be utilized for hardware material.
8. Lead wire shall be 20 gauge, flame and abrasion, insulated black and shall be capable meeting the environmental and system requirements of the intended application.

FIGURE 2. Dimensions and configuration - Continued.

MIL-PRF-8805/114C

REQUIREMENTS:

Dimensions and configuration: See figures 1.

Enclosure design: 3.

Temperature characteristic: 1.

Shock type: M.

Sinusoidal vibration grade: 2.

Military part number: M8805/114-01.

Finish: All exposed parts shall be corrosion resistant or shall be treated for corrosion resistance.

Mounting hardware: Mounting plate shall be positioned as shown on figure 1.

Weight (with leads): 0.20 pound maximum.

Operating characteristics:

Actuating force: 9 ± 3 pounds.

Releasing force: 4 pounds minimum.

Pretravel: 0.040 inch maximum.

Overtravel: 0.125 inch minimum.

Overtravel force: 30 pounds maximum.

Movement differential: 0.020 inch minimum.

Strength of actuating means: 30 pounds.

Salt spray: Connectors shall be coupled during the test and examined for corrosion following the test.

Sand and dust: Connectors shall be coupled during the test. Following the test, there shall be no evidence of dust inside the connectors.

Mechanical endurance: 25,000 cycles.

Electrical endurance: 25,000 cycles.

Electrical ratings: See table I.

MIL-PRF-8805/114C

TABLE I. Electrical ratings.

Load	Sea level 28 V dc (amperes)
Resistive	7
Inductive	4
Motor	4

Marking: Black printing 0.06 inch high on white background (decal).

Terminal identification: Include circuit schematic diagram.

Qualification inspection: Table II applies only if qualified MIL-PRF-8805/4 basic sensitive switches are utilized, and similar products have been qualified to MIL-PRF-8805/43 or MIL-PRF-8805/104.

TABLE II. Qualification inspection.

Number of sample units	Tests of MIL-PRF-8805 qualification inspection table
6	Group I
2	Group III
4 ^{1/}	Group VII

^{1/} Electrical endurance: Only resistive and inductive loads need to be tested

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

Referenced Documents:

MIL-PRF-8805	MS25082
MIL-PRF-9905/4	MS27144
MIL-PRF8805/43	NASM 35333
MIL-PRF-8805/104	NEMA-HP3

Custodian:
Army - AT
DLA - CC

Preparing activity:
DLA - CC

(Project 5930-1863)

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.