

PERFORMANCE SPECIFICATION SHEET

SWITCHES, SENSITIVE, DPDT AND 4PDT, PLUNGER OR ROLLER,  
4 AMPERES, HERMETICALLY SEALED CONTACTS, RESILIENT SEALED PLUNGER

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 and MIL-PRF-8805

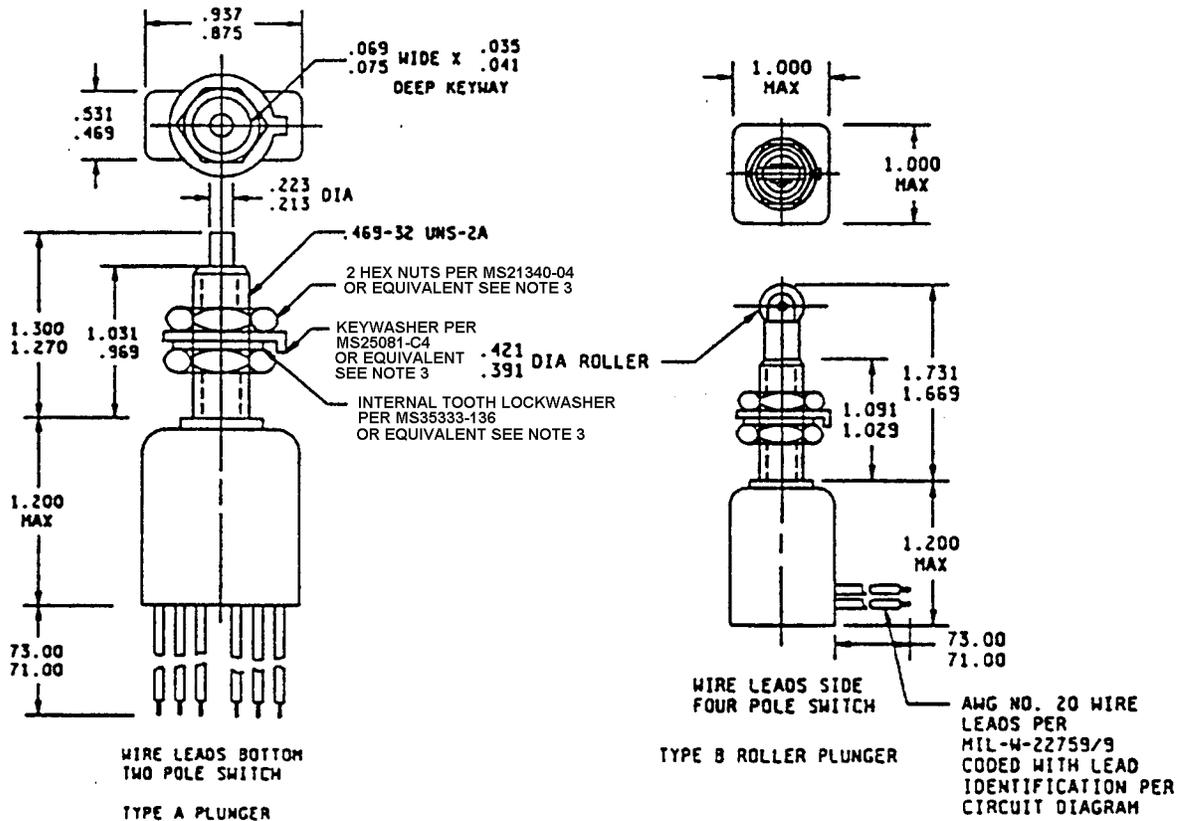
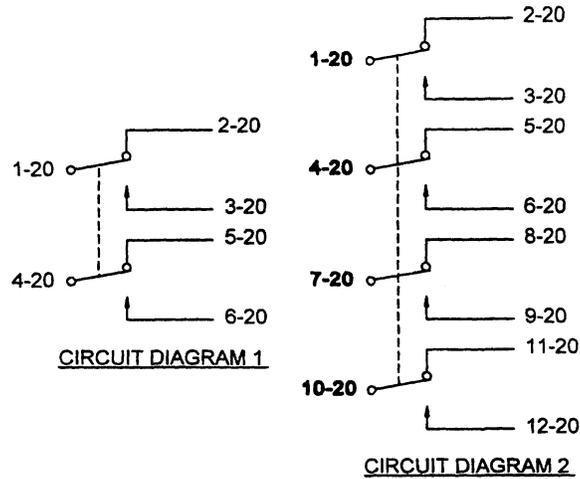


FIGURE 1. Dimensions and configuration.



Inches	mm	Inches	mm	Inches	Mm
.035	0.89	.469	11.91	1.200	30.48
.041	1.04	.531	13.49	1.270	32.26
.047	1.19	.875	22.23	1.300	33.02
.069	1.75	.937	23.80	1.669	42.39
.075	1.91	.969	24.61	1.731	43.97
.213	5.41	1.000	25.40	71.00	1803.4
.223	5.66	1.029	26.14	73.00	1854.2
.391	9.93	1.031	26.19		
.421	10.69	1.091	27.71		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Alternative base metals and protective finishes as approved by the qualifying activity, may be utilized for hexagon nut, lockwasher and keyway washer material. Dimensions shall be in accordance with the referenced hardware specification.

FIGURE 1. Dimensions and configuration - continued

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REQUIREMENTS:

Dimensions and configurations: See figure 1.

Enclosure design: 5 (hermetic). Basic switch shall be hermetically sealed M8805/68-008 or -022 listed on QPL – 8805. Resilient plunger seal.

Temperature characteristic: 2 (- 65°C to + 125°C).

Shock type: M (100 g, test condition I, method 213 of MIL-STD-202).

Vibration grade: 3 (10 Hz to 3,000 Hz swept sinusoidal ).

Weight:

Two pole switch: 1.6 ounce plus .10 ounce per lead per foot.

Four pole switch: 3.4 ounce plus .10 ounce per lead per foot.

Operating characteristics:

Actuating force: 10 pounds maximum.

Releasing force: 1 pound minimum.

Movement differential: .020 inch (0.51 mm) maximum.

Pretravel: .030 inch (0.76 mm) maximum

Overtravel: .200 inch (5.08 mm) minimum.

Contact resistance: .04 ohm + 0.011 ohm per lead per foot.

Dielectric withstanding voltage:

Sea level and 70,000 feet: 1,050 V rms (terminal to case), 800 V rms (terminal to terminal).

Seal test: Not required.

Mechanical endurance: 50,000 cycles.

Electrical endurance: 25,000 cycles.

Intermediate current: 25,000 cycles.

Low level: 25,000 cycles.

Electrical ratings: see table I.

Short circuit: 20 times rated resistive load (MS3320-7 1/2 or equivalent, used for circuit protection).

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Qualification:

Group submission: See table II.

Military Part or Identifying Number (PIN): See table III.

TABLE I. Electrical ratings.

Load	Sea level and 70,000 feet
	28 Vdc
Resistive	4
Inductive	1
Lamp	2

TABLE II. Qualification.

Inspection	Basic Switch	Other switch samples	Extent of approval
Qualification inspection table of MIL-PRF-8805, groups I through IV inclusive (seal test not required)	M8805/70-038 (all sample units)	M8805/70-033 through – 037, -039, -040 (2 sample units each):  Visual and mechanical inspection only	All

TABLE III. PIN's and configuration.

PIN <u>1/</u>	Resistive Load rating	Circuit Diagram	Type of actuating mechanism	Terminals
	4 Amp			
M8805/70-033	25,000	1	A	Wire leads - bottom
M8805/70-034		1	B	Wire leads - bottom
M8805/70-035		1	A	Wire lead - side
M8805/70-036		1	B	Wire lead - side
M8805/70-037		2	A	Wire leads - bottom
M8805/70-038		2	B	Wire leads - bottom
M8805/70-039		2	A	Wire lead - side
M8805/70-040		2	B	Wire lead - side

1/ PIN's 001 through 032 have been canceled without replacement.

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Custodians:

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

Preparing activity:

DLA - CC

(Project 5930-1699)

Review activities:

Army – AR, AV, MI  
Navy – AS, MC, OS, SH  
Air force – 19, 99