

PERFORMANCE SPECIFICATION SHEET

SWITCHES, SENSITIVE, SPDT , PLUNGER,
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 sheet and the issue of the following specification listed in that issue
of the Department of Defense Index of Specifications and Standards (DODISS)
specified in the solicitation: MIL-PRF-8805

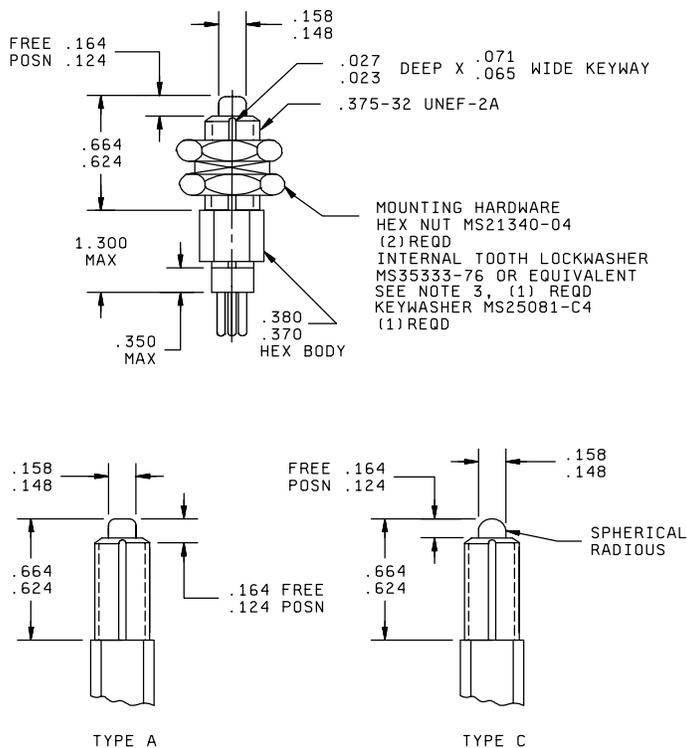
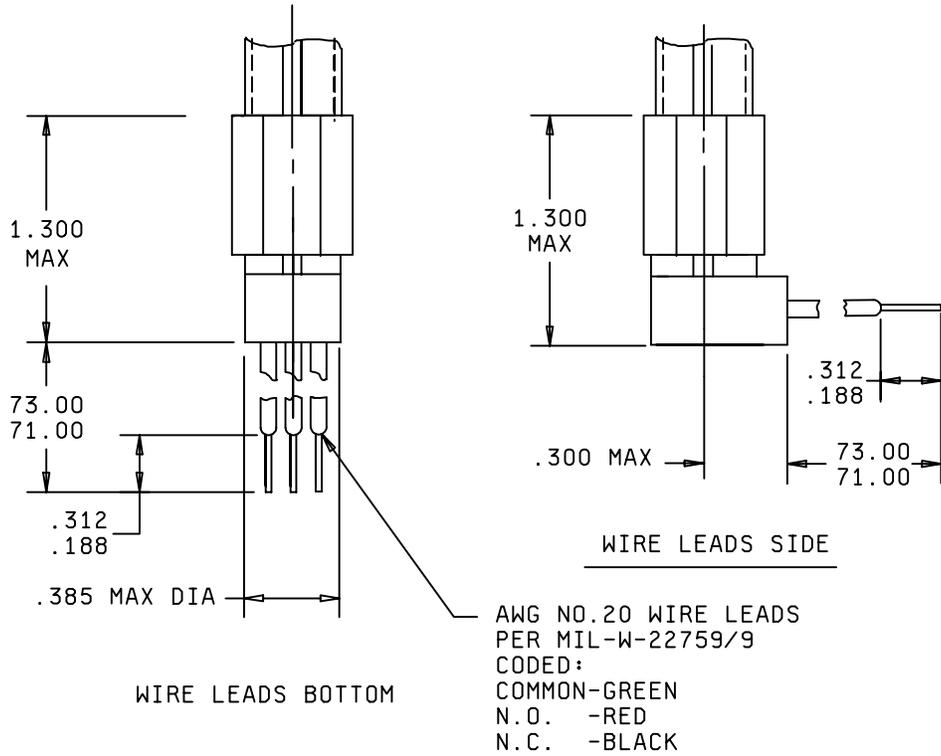


FIGURE 1. Dimensions and configuration.

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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 lock washer. 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 M8805/68-022 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).

Operating characteristics:

Actuating force: 6.5 pounds maximum.

Releasing force: 1.5 pound minimum.

Pretravel: .020 inch (0.51 mm) maximum

Movement differential: .005 inch (0.13 mm) maximum.

Overtravel: .125 inch (3.18 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 (SAE-AS33201; PIN MS3320-7 ½, or equivalent used for circuit protection).

Weight: 1.0 ounce plus 0.1 ounce per lead per foot.

Qualification:

Group submission: See table II.

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Military Part or Identifying Number (PIN): See tables III and IV.

Table I. Electrical ratings.

Load	Sea level and 70,000 feet (28 V dc) (amperes)
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)	M8805/73-013 (all sample units)	M8805/73- 013 through -016 (2 sample units each): Visual and mechanical inspection only	All

Table III. PIN's and configurations.

PIN <u>1/</u>	Electrical Endurance Cycles @ Resistive Load Ratings	Type of Actuating Mechanism	Terminals
M8805/73-013	4 Amp	A	Wire leads – bottom
M8805/73-014		A	Wire lead – side
M8805/73-015	25,000	C	Wire leads – bottom
M8805/73-016		C	Wire lead – side

1/ PIN's -001 through -012 have been canceled and are no longer procurable. Use PIN's -013 through -016.

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Table V. Substitution information for canceled PIN's. 1/

Canceled PIN's M8805/73-		Substitute PIN's M8805/73-
4 Amp	7 Amp	4 Amp
003	009	013
005	010	014
007	011	015
008	012	016

1/ The canceled PIN's are no longer procurable. Substitute, PIN configurations are interchangeable and are rated at 4 amperes for 25,000 cycles..

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

Custodians:

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

Preparing activity:

DLA - CC

(Project 5930-1671-02)

Review activities:

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