

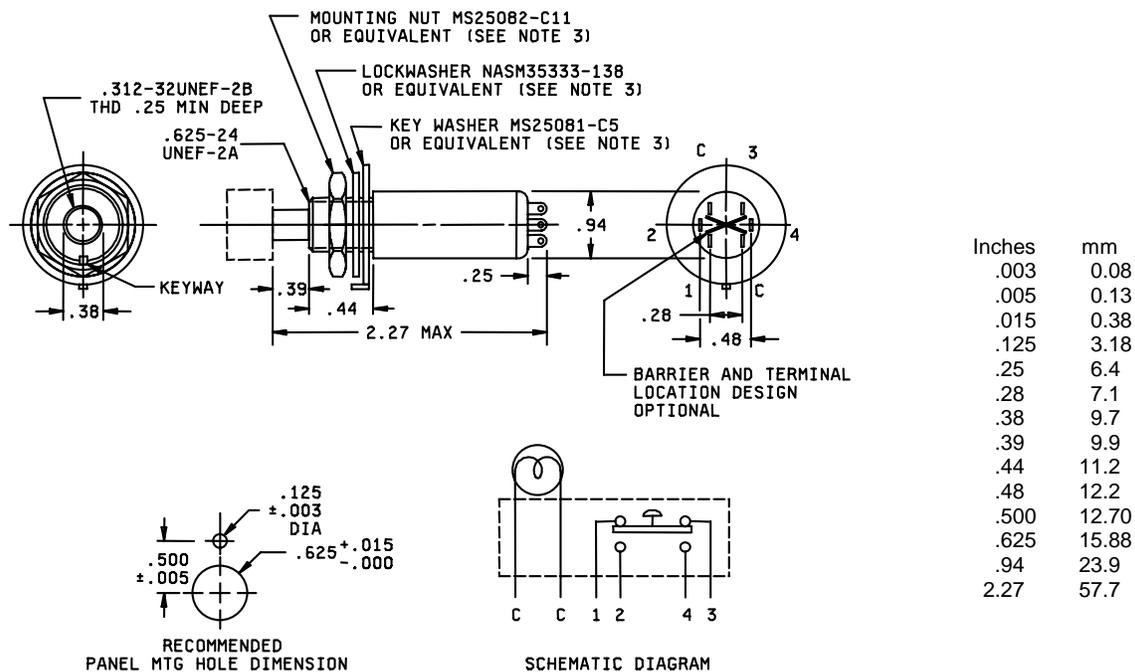
MILITARY SPECIFICATION SHEET

SWITCH, PUSH BUTTON, ILLUMINATED
MOMENTARY AND PUSH-PULL, 2-CIRCUIT, 5 AMPERES

Inactive for new design after 21 July 1997, except for replacement purposes.

This specification sheet is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for procuring the product described herein shall consist of this specification sheet and MIL-PRF-22885.



NOTES:

1. Dimensions are in inches. Metric equivalents are given for general information only.
2. Unless otherwise specified, tolerance is $\pm .03$ (0.8 mm).
3. Alternative base metals and protective finishes, as approved by the qualifying activity, may be utilized for hexagon nut, lock washer, and key washer material. Dimensions shall be in accordance with the referenced hardware specifications.

FIGURE 1. Dimensions and configuration.

MIL-S-22885/8H

REQUIREMENTS:

Dimensions and configuration: See figure 1. Switch housings accept screw-in pushbuttons in accordance with MIL-S-22885/1. Pushbutton accommodates one midget flange base T-1-3/4 incandescent lamp.

Enclosure design: 2 (drip-proof).

Temperature characteristic: -40°C to +55°C.

Vibration grade: 2 (10 to 500 Hz, 10 g peak).

Operation: A (momentary) or C (push-pull).

Display type: C (colored background)

Material:

Case: Aluminum, clear anodized.

Weight: 1.43 ounces maximum.

Operating characteristics:

Operating force:

Momentary action switches:

Initial: 4 ± 1 pounds.

After endurance testing: 2.5 pounds minimum.

Push-pull switches: 1.5 pounds, approximately.

Plunger travel: $.080 \pm .020$ inch.

Shock:

Method I: Applicable, except maximum allowable contact opening is 500 microseconds.

Method II (high impact): Applicable.

Electrical ratings: See table I.

Qualification: Table II applies when both momentary and push-pull action switches are submitted for qualification at the same time.

Part or Identifying Number (PIN): M22885/8- (dash number from table III).

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TABLE I. Electrical ratings.

Load	28 V dc (amperes)	115 V ac (amperes)
Resistive	5	5
Inductive	3	3

TABLE II. Extent of qualification.

Switch sample	Tests of MIL-PRF-22885 qualification inspection table	Extent of approval
M22885/8-03	Groups I through VII	ALL PIN's
M22885/8-52	Groups I, II, VI ^{2/} , and VII	
M22885/1-01 through -05 ^{1/} (2 each color)	Group VIII	

^{1/} Pushbuttons may be installed on housings submitted to the tests of groups II through VII.

^{2/} Inductive dc load only.

TABLE III. Dash numbers.

Dash number	Pushbutton M22885/1-	Operation
01	None ^{1/}	Push-pull
02	None ^{1/}	Push-pull
03	01 (yellow, .81 round)	Push-pull
04	02 (white, .81 round)	Push-pull
05	03 (red, .81 round)	Push-pull
06	04 (green, .81 round)	Push-pull
07	05 (blue, .81 round)	Push-pull
08	06 (yellow, .75 round)	Push-pull
09	07 (white, .75 round)	Push-pull
10	08 (red, .75 round)	Push-pull
11	09 (green, .75 round)	Push-pull
12	10 (blue, .75 round)	Push-pull
13	11 (yellow, .67 round)	Push-pull
14	12 (white, .67 round)	Push-pull
15	13 (red, .67 round)	Push-pull
16	14 (green, .67 round)	Push-pull
17	15 (blue, .67 round)	Push-pull
18	16 (yellow, .62 round)	Push-pull
19	17 (white, .62 round)	Push-pull
20	18 (red, .62 round)	Push-pull
21	19 (green, .62 round)	Push-pull
22	20 (blue, .62 round)	Push-pull
23	21 (yellow, .88 square)	Push-pull
24	22 (white, .88 square)	Push-pull
25	23 (red, .88 square)	Push-pull
26	24 (green, .88 square)	Push-pull
27	25 (blue, .88 square)	Push-pull

See footnote at end of table.

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TABLE III. Dash numbers - Continued.

Dash number	Pushbutton M22885/1-	Operation
28	01 (yellow, .81 round)	Momentary
29	02 (white, .81 round)	Push-pull
30	03 (red, .81 round)	Momentary
31	04 (green, .81 round)	Momentary
32	05 (blue, .81 round)	Momentary
33	06 (yellow, .75 round)	Momentary
34	07 (white, .75 round)	Momentary
35	08 (red, .75 round)	Momentary
36	09 (green, .75 round)	Momentary
37	10 (blue, .75 round)	Momentary
38	11 (yellow, .67 round)	Momentary
39	12 (white, .67 round)	Momentary
40	13 (red, .67 round)	Momentary
41	14 (green, .67 round)	Momentary
42	15 (blue, .67 round)	Momentary
43	16 (yellow, .62 round)	Momentary
44	17 (white, .62 round)	Momentary
45	18 (red, .62 round)	Momentary
46	19 (green, .62 round)	Momentary
47	20 (blue, .62 round)	Momentary
48	21 (yellow, .88 square)	Momentary
49	22 (white, .88 square)	Momentary
50	23 (red, .88 square)	Momentary
51	24 (white, .88 square)	Momentary
52	25 (red, .88 square)	Momentary

1/ These are switch housings that do not include pushbutton.

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

Preparing activity:
 DLA - CC
 (Project 5930-1763-02)

Review activities:
 Army - AR, AT, AV, CR4, MI
 Navy - AS, MC, SH
 Air Force - 19, 99