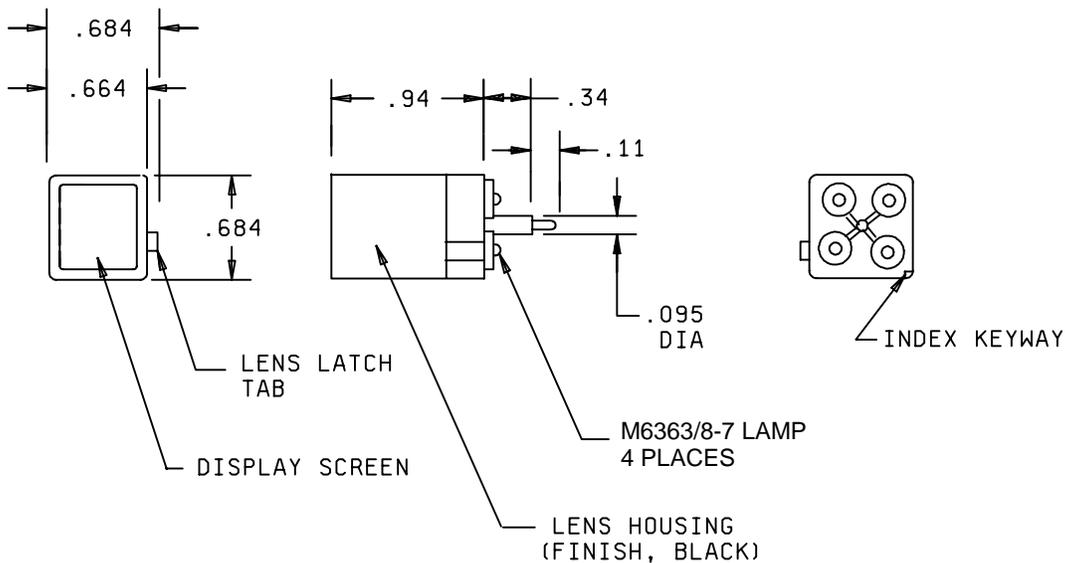


PERFORMANCE SPECIFICATION SHEET

SWITCH, PUSH BUTTON, ILLUMINATED, PUSHBUTTON FOR
 (WITH LAMP-CAP COLOR FILTERS)

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

The requirements for acquiring the indicator lights described herein shall
 consist of this specification sheet and MIL-PRF-22885.



Inches	mm
.095	2.41
.11	2.79
.34	8.64
.664	16.87
.684	17.37
.94	23.88

NOTES:

1. Dimensions are in inches. Metric equivalents are given for general information only.
2. Unless otherwise specified, tolerances are ± 0.005 (.13 mm) for three place decimals and ± 0.020 (.51 mm) for two place decimals.
3. Dashed circles represent color filters.

FIGURE 1. Design and construction.

MIL-PRF-22885/53D

REQUIREMENTS:

Design and construction: See figure 1. Pushbutton shall accommodate four midget flange base T-1 ¾ incandescent lamps and shall be capable of mating with switch housings in accordance with MIL-PRF-22885/56. Pushbutton shall accommodate color filters in accordance with MIL-PRF-22885/55. Unless otherwise specified in contract or purchase order, lamps are not supplied.

Enclosure design: 1 (Unseated)

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

Vibration grade: 2 (10 - 500 Hz)

Display type: W (White until illuminated, then background appears in color).

Material:

Display screen: Shall be of clear transparent material.

Lamp module: Lamp insulator block may be fabricated from thermoplastic material.

Color and luminance: See table I.

Part or Identifying Number (PIN): M22885/53-(dash number from table II).

Qualification inspection: As a part of illuminated push button switch assembly, MIL-PRF-22885/56.

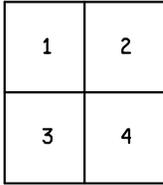
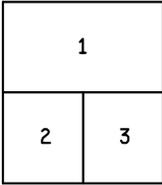
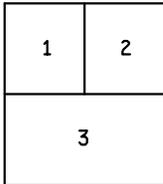
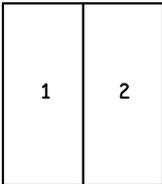
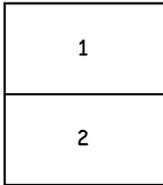
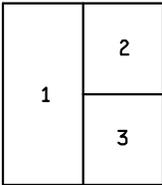
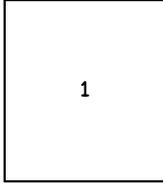
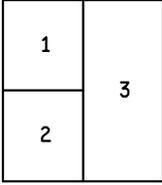
TABLE I. Chromaticity limits and photometric brightness.

Color	Color code	Chromaticity limits <u>1/</u> 2360° Kelvin		Switch photometric brightness (foot-lamberts) <u>2/</u> minimum
		X	Y	
Blue	B	210	280	35
		330	280	
		330	420	
		210	420	
Green	G	260	570	50
		300	630	
		160	660	
		200	720	
Red	R	695	285	80
		703	SL <u>3/</u>	
		655	325	
		660	SL <u>3/</u>	
White	W	380	350	150
		460	385	
		460	430	
		380	410	
Yellow	Y	562	415	150
		570	SL <u>3/</u>	
		596	382	
		605	SL <u>3/</u>	

- 1/ The chromaticity of the illuminated display, expressed as x and y coordinates on the CIE chromaticity diagram, shall lie within areas bounded by the coordinates listed for each color, using a source illuminate of 2360°K.
- 2/ Switch photometric brightness, when viewed from the front of the applicable pushbutton display and using midget flange, T-1 ¾ incandescent lamps operated at a $34 \pm .02$ MSCP.
- 3/ SL = Spectrum Locus (where intersected by other coordinate pair).

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TABLE II DASH NUMBER, DISPLAY CONFIGURATION AND COLOR SEQUENCE

DASH NUMBER <u>1/2/</u>	DISPLAY <u>3/</u>	DASH NUMBER <u>1/2/</u>	DISPLAY <u>3/</u>
-1XXXX		-5XXX	
-2XXX		-6XX	
-3XX		-7XXX	
-4X		-8XXX	

- 1/ Dash numbers are shown for lamp capsules without color filters. Replace X's with the color codes of table I in the sequence shown.
- 2/ Dash numbers as shown replace and are interchangeable with previous dash numbers which included additional zeros. (Example: -001XXXX)
- 3/ Pushbutton assembly removal latch is shown for orientation.

MIL-PRF-22885/53D

Custodians:

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

Preparing activity:

DLA - CC

Review activities:

Army - AR, CR4, MI
Navy - AS, MC, OS, SH
Air Force - 19, 99

(Project 5930-1716-07)