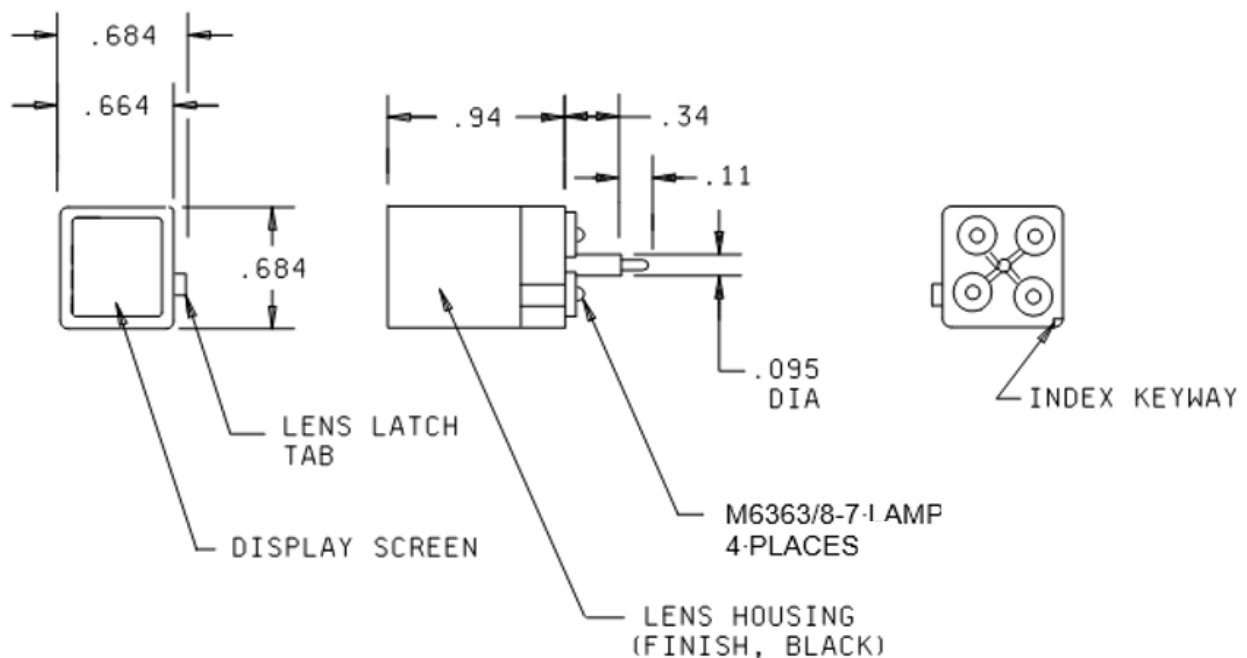


PERFORMANCE SPECIFICATION SHEET

SWITCH, PUSH BUTTON, ILLUMINATED, PUSHBUTTON FOR
(WITH PLANAR COLOR FILTERS)

This specification sheet 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 [MIL-PRF-22885](#).



NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerances are ± 0.005 for three place decimals and ± 0.020 for two place decimals.

FIGURE 1. Design and construction.



MIL-PRF-22885/52F

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](#), or [MIL-S-24317/9](#). . 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: 3 (10 - 2,000 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): M22885/52-(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.

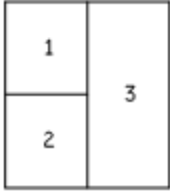
Color	Color code	Chromaticity limits <u>1/</u> 2360° Kelvin		Switch photometric brightness (foot-lamberts) <u>2/</u> minimum
		X	Y	
Blue	B	210	280	35
		330	280	
		330	420	
		210	420	
Green	G	230	610	150
		350	540	
		380	580	
		280	660	
Red	R	695	285	150
		703	SL <u>3/</u>	
		655	325	
		660	SL <u>3/</u>	
White	W	490	390	150
		490	420	
		535	410	
		535	435	
Yellow	Y	565	410	150
		580	SL <u>3/</u>	
		540	435	
		550	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 ± 0.02 MSCP.

3/ SL = Spectrum Locus (where intersected by other coordinate pair).

TABLE II DASH NUMBER, DISPLAY CONFIGURATION AND COLOR SEQUENCE.

DASH NUMBER <u>1</u> / <u>2</u> /	DISPLAY <u>3</u> /	DASH NUMBER <u>1</u> / <u>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.

Changes from previous revision. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the previous issue.

Referenced Documents:

[MIL-PRF-22885](#)
[MIL-PRF-22885/56](#)
[MIL-S-24317/9](#)

Custodians:

Army - CR
Navy - EC
Air Force - 85
DLA - CC

Preparing activity:

DLA - CC

(Project 5930-2024-015)

Review activities:

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

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 <https://assist.dla.mil/>.