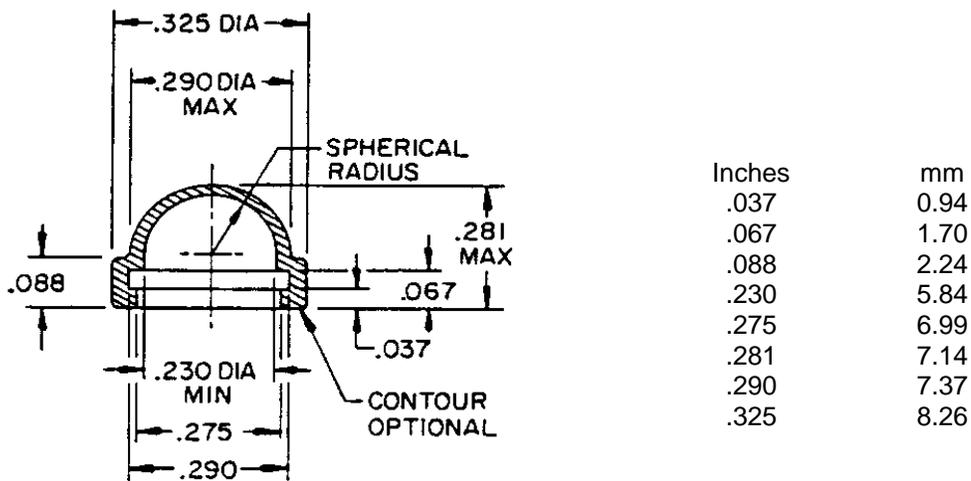


PERFORMANCE SPECIFICATION SHEET
SWITCH, SUBASSEMBLY, COLOR FILTERS
(FOR SWITCH, PUSH BUTTON, ILLUMINATED)

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

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



NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is ± 0.010 (0.25 mm).
3. Metric equivalents are given for general information only.

FIGURE 1. Design and construction.

MIL-PRF-22885/12H

Design and construction: See figure 1.

Intended use: For use with 4-lamp (T-1 ¾ midget flanged base) illuminated push button switches of MIL-PRF-22885/9, MIL-PRF-22885/15 and MIL-PRF-22885/87.

Classification: See MIL-PRF-22885/9, MIL-PRF-22885/15 and MIL-PRF-22885/87.

Illuminated color: See table I. Spectrographic method shall be used.

Luminance: See table I.

Marking: Identification marking shall be on unit package or tag.

Inspection:

Group A: Inspection for dimensions.

Group B and qualification: As part of MIL-PRF-22885/9, MIL-PRF-22885/15 or MIL-PRF-22885/87 switch inspection. One additional sample (4 color filters) per color required for color fade test.

TABLE I. Illuminated color and luminance.

Colors	Illuminated color chromaticity limits <u>1/</u> 2360° Kelvin		Switch luminance (foot-lamberts) <u>2/</u>		
	x	y	4 lamps illuminated		2 lamps illuminated
			Minimum	Maximum	Minimum
Red	.695 .703 .655 .660	.285 SL <u>3/</u> .325 SL <u>3/</u>	50	100	20
Green	.260 .300 .160 .200	.570 .630 .660 .720	50	100	20
Yellow	.562 .570 .596 .605	.415 SL <u>3/</u> .382 SL <u>3/</u>	100	200	40
Blue	.150 .220 .220 .150	.260 .260 .320 .320	8	40	4
White	.400 .460 .400 .460	.420 .420 .380 .380	100	200	40

1. The chromaticities of the diffusing lenses or colored filters 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 switch indicator light.
3. SL - Spectrum locus (where intersected by other coordinate pair).

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Color fade test: Four T-1 ¾ midget flange base lamps, industry number 328, or equivalent shall be installed in the test fixture. The test fixture shall operate at 5 ± 0.2 volts continuously for a period of 300 hours at room ambient. At the completion of this test, the colors must remain within the limits specified in table I.

The color fade test fixture shall consist of one MIL-PRF-22885/10 or MIL-PRF-22885/16 modular indicator light for each color of filter to be tested, mounted in a suitable panel.

Part number: M22885/12- (dash number from table II).

TABLE II. Dash number and color code.

Dash number	Color	Code
01	Blue	B
02	Green	G
03	Red	R
04	White	W
05	Yellow	Y

MIL-PRF-22885/12H

Reference Documents:

MIL-PRF-22885
MIL-PRF-22885/9
MIL-PRF-22885/10
MIL-PRF-22885/15
MIL-PRF-22885/16
MIL-PRF-22885/87

The margins of this specification are marked with vertical lines to indicate where modifications from this revision 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.

Custodians:

Army - CR
Navy - EC
AF - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5930-2009-019)

Review activities:

Army - AT, AV, CR4, MI
Navy - AS, MC, OS
Air Force – 99

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.daps.dla.mil/>.