

INCH-POUND

MIL-PRF-22885/90C
Amendment 1
5 September 2000

PERFORMANCE SPECIFICATION SHEET

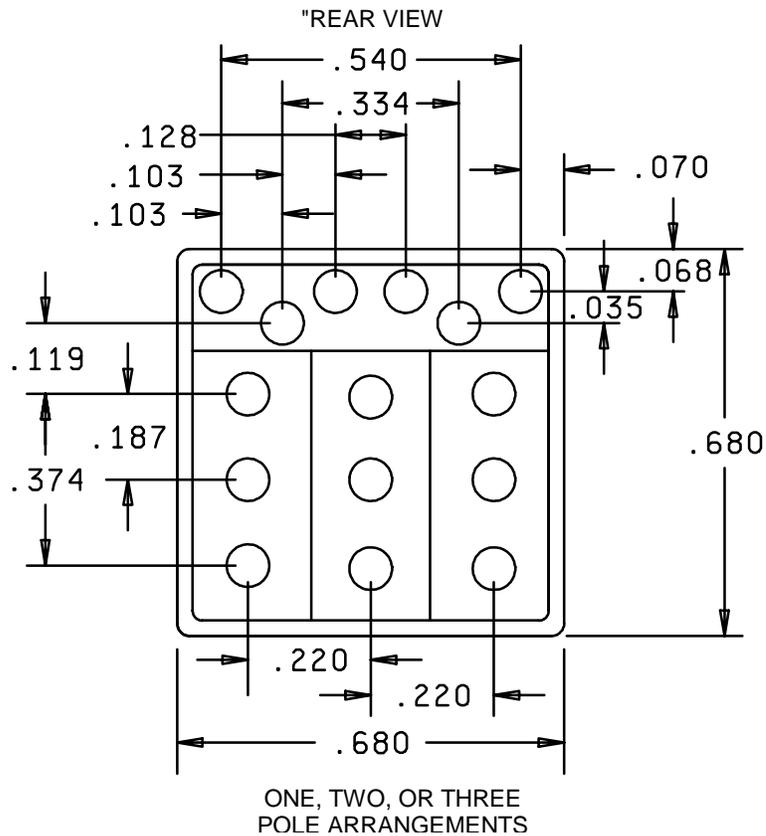
SWITCH, PUSHBUTTON, ILLUMINATED, 4-LAMP 0.750 SQUARE, LOW LEVEL TO 7 AMPERES,
(DRIPPROOF, EMI/RFI SHIELDING, NIGHT VISION GOGGLE COMPATIBLE)

This amendment forms a part of MIL-PRF-22885/90C, dated 17 March 1999, and is approved for use by all Departments and Agencies of the Department of Defense.

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

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Figure 5, rear view, one, two or three pole arrangements, delete and substitute:



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Sunlight readability, first paragraph, delete and substitute:

"Requirements: All legends shall be capable of being read in direct sunlight and at any glare producing, specularly reflective angles up to $15^\circ \pm 2^\circ$ to the normal of the display viewing surface. The minimum average luminance contrast ratio of each lighted legend character to background shall be 0.6 minimum, except 0.4 minimum for blue and NVIS compatible colors. The average luminance contrast ratio of each unlighted legend character to background shall have an absolute value equal to or less than 0.1. The minimum average luminance contrast ratio for each color shall not be less than the values listed in tables VI and VII for the respective glare producing angle."

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Delete "Formula 1" and replace with "Formula I"

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Table II, delete and substitute:

TABLE II. Illuminated chromaticity limits and luminance for sunlight readable displays (type S).

Color	Color code	X <u>1/</u>	Y <u>1/</u>	Minimum average character luminance with or without EMI/RFI shielding
Red	R	.695	.285	150 foot-lamberts
		.710	SL <u>2/</u>	
		.655	.325	
		.660	SL <u>2/</u>	
Green	G	.300	SL <u>2/</u>	200 foot-lamberts
		.300	.600	
		.380	.600	
		.380	SL <u>2/</u>	
Yellow	Y	.562	.415	300 foot-lamberts
		.570	SL <u>2/</u>	
		.596	.382	
		.605	SL <u>2/</u>	
Blue	B	.230	.420	150 foot-lamberts
		.230	.350	
		.320	.350	
		.320	.420	
White	W	.400	.420	250 foot-lamberts
		.460	.420	
		.400	.380	
		.460	.380	

1/ The chromaticities of the colors are expressed as "X" and "Y" coordinates on the CIE chromaticity diagram and are within the limits bound by the coordinates listed for each color.

2/ SL-spectrum locus (where intersected by other coordinate pair)."

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TABLE XII, Delete note 1/

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TABLE XVI, delete and substitute,

" TABLE XVI. Qualification inspection, group submission.

Test sample	Qualification inspection table of MIL-S-22885		Additional testing	Extent of approval <u>1/</u>
	Group	Number of samples		
M22885/90-75PER <u>2/</u>	I II III VI <u>3/</u> <u>4/</u> VII <u>5/</u> <u>6/</u> VIII <u>7/</u>	10 4 (from group I) 2 (from group I) 2 (from group I) 2 (from group I) 22 <u>7/</u>		Type III
M22885/90-213K1	I II VI <u>3/</u> <u>8/</u>	6 4 (from group I) 2 (from group I)		Type I <u>9/</u>
M22885/90-923B3			-2 samples- Visual and mechanical examination Solderability Terminal strength Shock Dielectric withstanding voltage Operating characteristics	Type II <u>9/</u>

1/ Includes gold and silver contact switches when the basic sensitive switches are qualified to MIL-S-8805/4 or /109, category I or category II.

2/ PIN M22885/90-75PNR is applicable for group VIII testing of NVIS compatible samples.

3/ Four T-1, 5 volt, 0.115 ampere or equivalent lamps shall be used in the lens module during group VI tests.

4/ Test inductive dc load only.

5/ Twenty five cycles of removal and reinstallation of the seal shall be made during the mechanical endurance test.

6/ Mechanical endurance with dripproof seal: 5000 cycles at -44°C to -48°C absolute minimum; 35,000 cycles at +25 ±2°C; 10,000 cycles at 85°C minimum. Cycling rate shall not exceed 18 cycles per minute.

7/ Twenty two lens modules only (with or without dripproof seal), two for each of eleven colors and display types shall be tested for color, luminance and sunlight readability where applicable. A single separate switch body shall be provided so that lens modules can be individually energized. NVIS color and NVIS radiance measurements shall be taken where applicable.

8/ Test resistive dc load only.

9/ When type III switches have been qualified. "

Custodians:

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

Preparing activity:

DLA - CC

(Project 5930-1708)

Review activities:

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