

PERFORMANCE SPECIFICATION SHEET

PUSHBUTTON, ILLUMINATED, 4 LAMP, SUNLIGHT READABLE  
(FOR ILLUMINATED PUSHBUTTON SWITCH)

This amendment forms a part of MIL-PRF-22885/104B, dated 1 March 2001, and is approved for use by all Departments and Agencies of the Department of Defense.

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Insert the following after Sunlight readability paragraph:

" TABLE I. Illuminated color, contrast, and luminance.

Color	Code	Chromaticity limits		Luminance contrast ration <u>1/ 2/</u>				Nominal brightness (foot-lamberts)  Without EMI shield
		(X/Y) <sub>X</sub>	X (X/Y) <sub>Y</sub>	Without EMI shield		With EMI shield		
		(X/Y) <sub>Y</sub>	(X/Y) <sub>X</sub>	Lighted Min Avg.	Unlighted Max ± Avg.	Lighted Min Avg.	Unlighted Max ± Avg.	
Red	R	.660/.340 .655/.324	.703/.297 .695/.285	.60 : 1	-.10 : 1	.35 : 1	-.14 : 1	280
Green	G	.340/.640 .300/.600	.415/.565 .375/.523	.60 : 1	-.10 : 1	.35 : 1	-.12 : 1	260
Amber	A	.585/.415 .574/.404	.610/.390 .599/.379	1.20 : 1	-.08 : 1	.75 : 1	-.11 : 1	500
Yellow	Y	.560/.440 .549/.429	.583/.417 .572/.405	1.40 : 1	-.04 : 1	.95 : 1	-.09 : 1	600
White	N	.430/.430 .430/.380	.500/.430 .500/.380	.80 : 1	-.10 : 1	.45 : 1	-.12 : 1	350
Blue	B	.230/.420 .230/.350	.320/.420 .320/.350	.03 : 1	-.10 : 1	-.02 : 1	-.15 : 1	70

1/ Displays with luminance contrast ratios of .6 or higher in lighted condition and ±.1 or lower in unlighted condition are considered readable under direct sunlight conditions. In addition to luminance contrast, color contrast is an important factor in readability. Colors are listed in order of general preference. Red has the best color contrast; blue and white have the poorest color contrast under sunlight conditions. Blue should be used only when absolutely necessary.

2/ Sunlight performance is diminished 50 percent when two colors per legend area are specified (see figure 4).

Part number: M22885/1-4- (dash number, see table II).

Qualification and periodic inspection: Required as a part of MIL-PRF22885/103 or MIL-S-24317/12 switch assemblies.

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Delete " TABLE I. Dash numbers and characteristics." and replace with "TABLE II Dash numbers and characteristics."

Custodians:  
Navy - EC  
DLA - CC

Preparing activity:  
 DLA - CC  
 (Project 5930-1759)