

PERFORMANCE SPECIFICATION SHEET

SWITCH, PUSHBUTTON, ILLUMINATED, PLUG-IN,
SWITCH MODULE FOR, 2PDT, 4PDT

This specification 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.

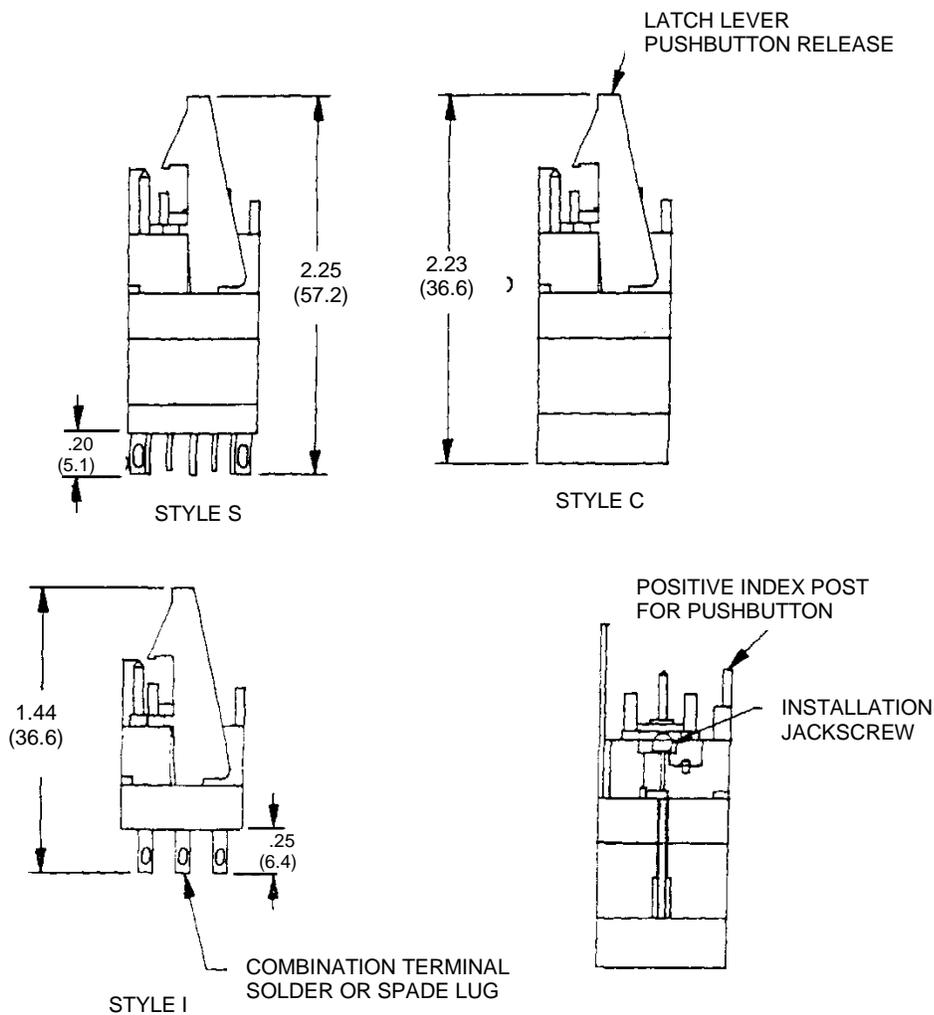


FIGURE 1. Dimensions and configurations.

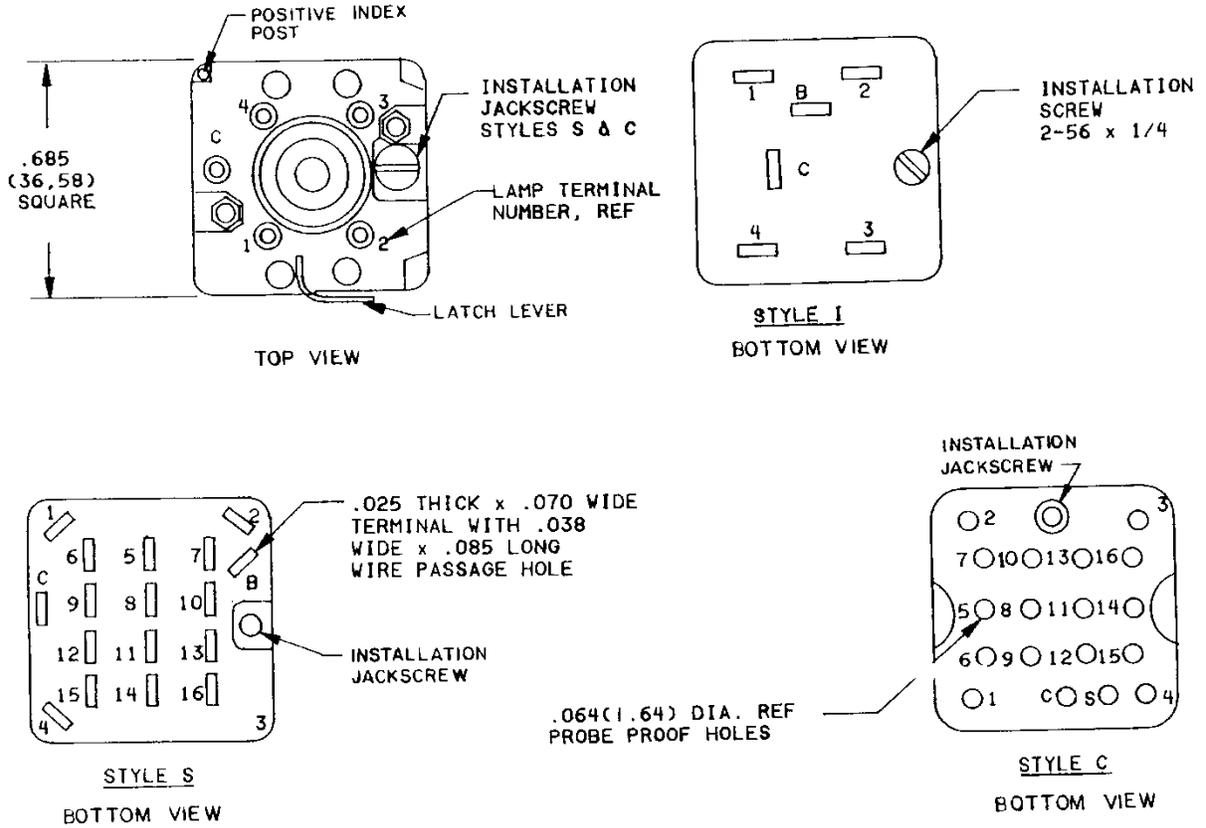
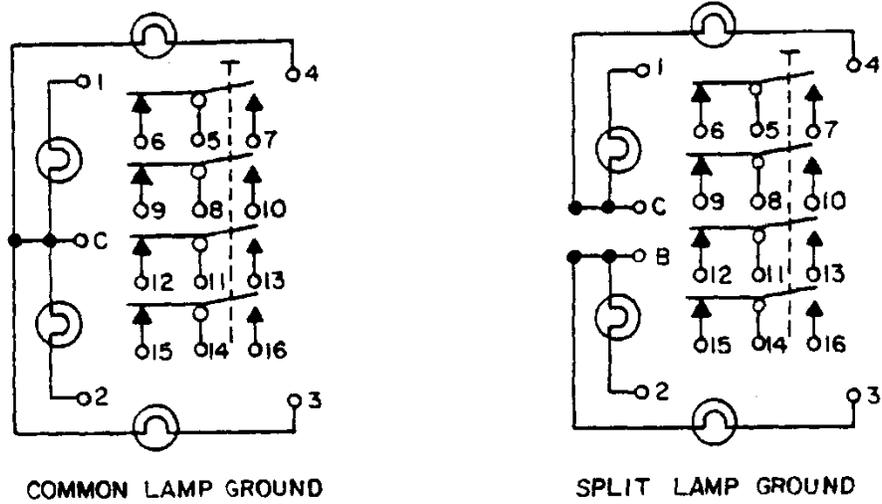


FIGURE 1. Dimensions and configurations - Continued.



NOTES:

1. Dimensions are in inches. Metric equivalents are given for general information only.
2. Unless otherwise specified, tolerances are ± 0.015 (.38 mm) for three place decimals and ± 0.03 (.8 mm) for two place decimals.
3. Index post provided prevents incorrect insertion of pushbutton into switch housing.
4. The installation torque for switch mounting jackscrew to be 8 ounce-inches maximum..
5. Delete Terminals 8 thru 13 for 2PDT configuration.
6. Delete Terminals 5 thru 16 for indicator configuration.
7. Delete Terminal B for common lamp ground lamp circuit.
8. On momentary operation switches, Terminals 6, 9, 12 and 15 are normally closed.
9. Unit is built with only the required terminals.
10. Metric equivalents are in parentheses.

FIGURE 1. Dimensions and configuration - Continued.

MIL-PRF-22885/105C

REQUIREMENTS:

Design and construction: See figure 1.

Intended use: Mates with sunlight readable pushbutton in accordance with MIL-PRF-22885/104. Styles S and C mate with individual or multistation switch housings in accordance with MIL-PRF-22885/103 and MIL-S-24317/12. Style I modules mount in MIL-S-24317/12 multistation housings only. Styles S and C are designed to be replaced from front of panel without disconnecting behind the panel wiring. Style I requires access to behind the panel mounting screw and removal of wiring. Style C terminals mate with M39029/1-101 connector contacts.

Classification:

Enclosure design: 1 (Unsealed).

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

Vibration grade: 3(10 - 2,000 Hz, 15 g peak).

Operation:

A (Momentary action).

B (Alternate action).

H (Indicator only).

Material:

Common termination system (applicable to style C):

Weight (±10%):

Style I: .0176 pound.

Styles C and S: .032 pound.

Operating characteristics: In accordance with MIL-PRF-22885/103 and MIL-S-24317/12.

Electrical endurance: 25,000 cycles. See table I for test loads.

TABLE I. Electrical ratings.

Load	Sea level and 70,000 ft.	
	28 V dc	115 V ac
Resistive Inductive Lamp	2 Amperes 1 Ampere .75 Ampere	2 Amperes 1 Ampere .75 Ampere

MIL-PRF-22885/105C

Dielectric withstanding voltage:

Sea level: 1,056 V rms.
70,000 ft: 450 V rms.

Logic level life: Applicable.

Terminal identification: Circuit schematic shall be marked. Identification of terminals on style C modules not required.

Part number: See table II.

Qualification and periodic inspection: Required as a part of MIL-PRF-22885/103 or MIL-S-24317/12 switch assemblies.

TABLE III. Part numbers.

Part number M22885/105-	Style	Termination <u>1/</u>	Operation	Switch circuit	Lamp CKT <u>2/</u>
001	I	Solder	Indicator	N/A	CLG
002	I	Solder	Indicator	N/A	SLG
003	S	Solder or wire wrap	Indicator	N/A	CLG
004	S	Solder or wire wrap	Indicator	N/A	SLG
005	C	Crimp pin	Indicator	N/A	CLG
006	C	Crimp pin	Indicator	N/A	SLG
007	S	Solder or wire wrap	Momentary	4PDT	CLG
008	S	Solder or wire wrap	Momentary	4PDT	SLG
009	S	Solder or wire wrap	Momentary	2PDT	CLG
010	S	Solder or wire wrap	Momentary	2PDT	SLG
011	S	Solder or wire wrap	Alternate	4PDT	CLG
012	S	Solder or wire wrap	Alternate	4PDT	SLG
013	S	Solder or wire wrap	Alternate	2PDT	CLG
014	S	Solder or wire wrap	Alternate	2PDT	SLG
015	C	Crimp pin	Momentary	4PDT	CLG
016	C	Crimp pin	Momentary	4PDT	SLG
017	C	Crimp pin	Momentary	2PDT	CLG
018	C	Crimp pin	Momentary	2PDT	SLG
019	C	Crimp pin	Alternate	4PDT	CLG
020	C	Crimp pin	Alternate	4PDT	SLG
021	C	Crimp pin	Alternate	2PDT	CLG
022	C	Crimp pin	Alternate	2PDT	SLG

1/ Style I modules mount in style I multistation housings in accordance with MIL-24317/12. Style S modules mate with styles S, W or L individual or multistation housings in accordance with MIL-PRF-22885/103 and MIL-S-24317/12. Style C modules mate with style C individual or multistation housings in accordance with MIL-PRF-22885/103 and MIL-S-24317/12.

2/ CLG = Common lamp ground. SLG = Split lamp ground.

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.

Reference Documents:

MIL-PRF-22885
MIL-PRF-22885/103
MIL-PRF-22885/104
MIL-S-24317/12

Custodian:

Navy - EC
Air Force - 85
DLA-CC

Preparing activity:
DLA - CC

(Project 5930-2009-017)

Review activities:

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/>.