



DEFENSE LOGISTICS AGENCY
DLA LAND AND MARITIME
POST OFFICE BOX 3990
COLUMBUS, OH 43218-3990

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

17 March 2022

SUBJECT: Initial Drafts of MIL-PRF-22885/18M, /82D, /85E, /87D, and /88D.
Project Numbers: 5930-2022-038 through -042.

The subject documents are now available for viewing and downloading from the DLA Land and Maritime - VA website:

<https://landandmaritimeapps.dla.mil/programs/milspec/initialdrafts.aspx>

The following is a synopsis of the changes:

Updated to current MIL-STD-961 and Land and Maritime SOP requirements.
Reference documents updated.

Concurrence or comments are required at this Center no later than 17 April 2022. If comments are not received during the allotted coordination period, concurrence may be assumed. Late comments may be held for the next specification action. Comments from military departments must be identified as either "Essential" or "Suggested". Essential comments must be justified with supporting data. Military review activities should forward comments to their custodians of this office, as applicable, in sufficient time to allow for consolidating the department reply.

The point of contact for this project is Mr. Mark Rush, DLA Land and Maritime - VAT, Post Office Box 3990, Columbus, OH 43218-3990. The preferred method of contact is via email. Mark can be reached at mark.rush@dla.mil or 614-692-0550/DSN 850-0550.

MICHAEL A. RADECKI
Chief
Electronic Components Branch

NOTE: This draft, dated March 17, 2022 prepared by DLA-CC,
has not been approved and is subject to modification.
DO NOT USE PRIOR TO APPROVAL.
(Project 5930-2022-042)

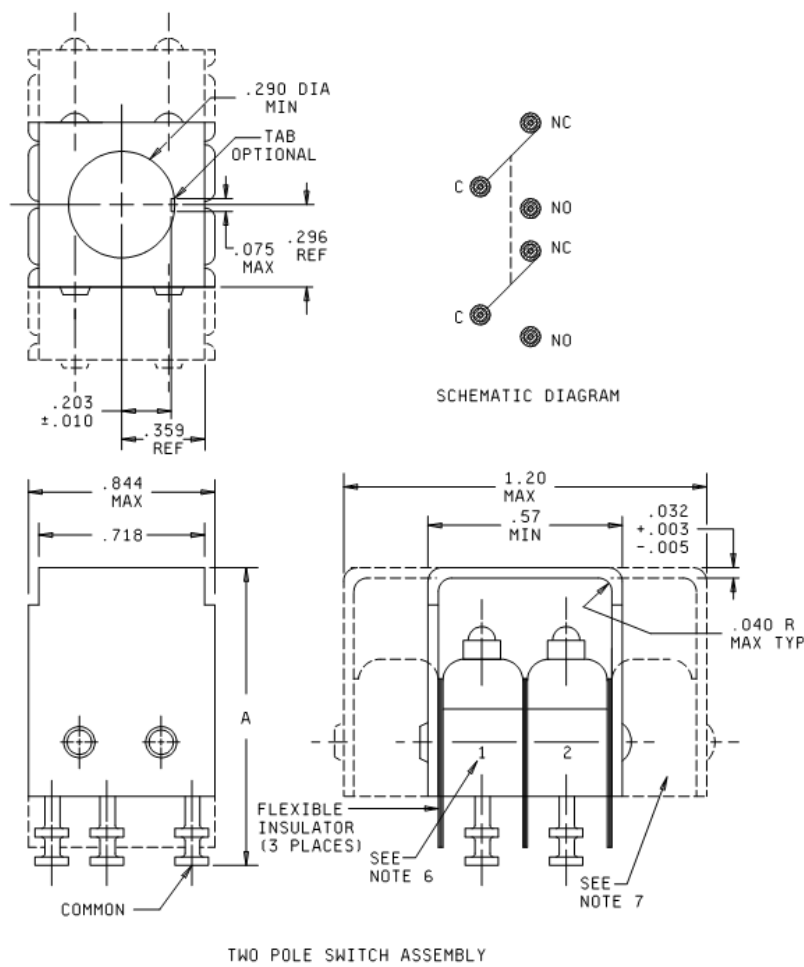
INCH-POUND
MIL-PRF-22885/88D
DRAFT
SUPERSEDING
MIL-PRF-22885/88C
1 March 2001

PERFORMANCE SPECIFICATION SHEET

SWITCH, PUSH BUTTON, ILLUMINATED,
HIGH IMPACT SHOCK, MODULAR SWITCH ASSEMBLIES FOR

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

The requirements for acquiring the indicator lights described herein shall consist of this specification sheet and [MIL-PRF-22885](#).

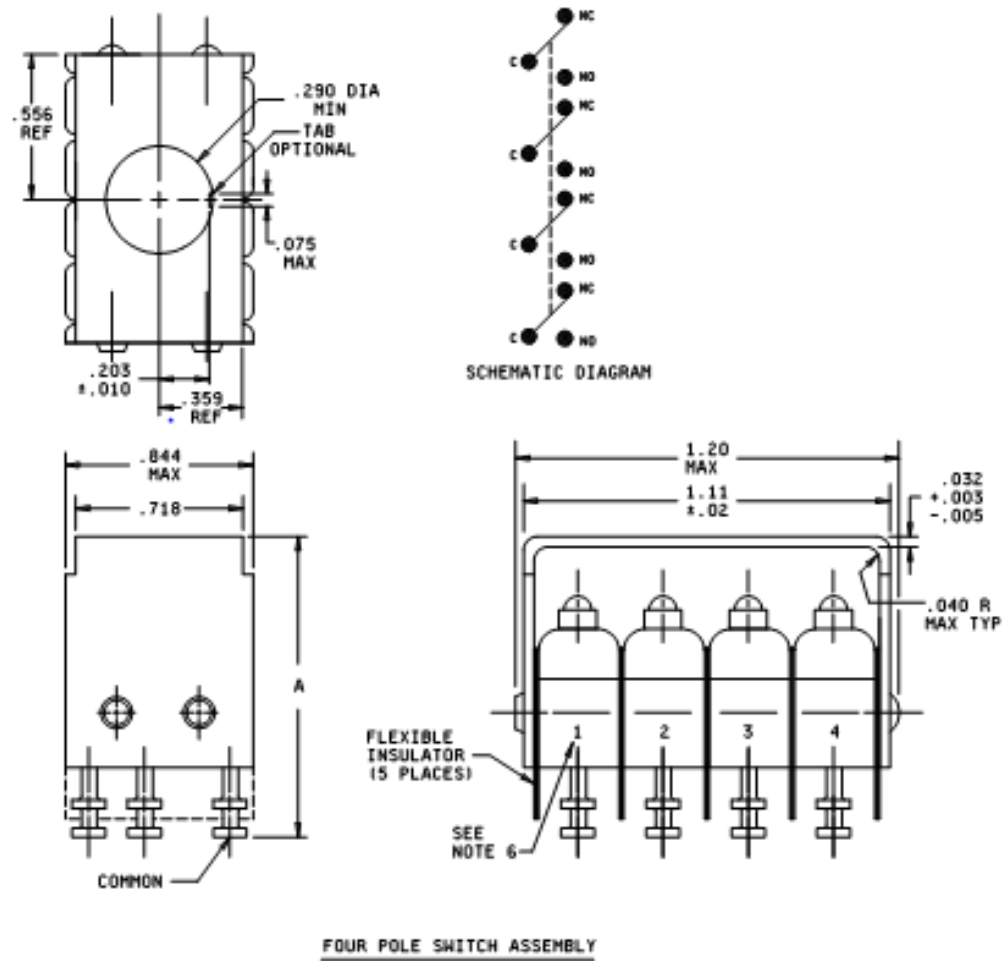


Switch action	Dimension "A"
Momentary	1.062 max
Alternate	1.344 max

FIGURE 1. Dimensions and configurations.



DRAFT MIL-PRF-22885/88D DRAFT



NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is $\pm .016$
3. The design configuration is optional within envelope dimensions shown.
4. Flat or cylindrical type terminal design is optional.
5. Basic switch number shall be permanently marked as shown. Additional marking of switch number on opposite side of basic switch is optional.
6. Two pole switch design utilizing two spacers, as shown, is optional.

FIGURE 1. Dimensions and configurations - Continued.

Requirements:

Dimensions and configuration: See figure 1. the switch modules shall be capable of mating with indicator lights in accordance with [MIL-PRF-22885/87](#) to form the [MIL-PRF-22885/87](#) illuminated push button switch. Basic switch elements shall be permanently fixed to switch bracket or frame.

Enclosure design: 1 (unsealed).

Temperature characteristic: -55°C to +71°

Vibration grade: 2 (10-500 Hz, 10 g peak).

Operation: A (momentary action) and B (alternate action).

Material:

Cam actuator: May be thermoplastic material classified as UL94V-2.

Flexible insulators: May be fabricated from woven glass impregnated with TFE.

Weight: 1.2 ounces maximum.

Operating characteristics:

Operating force: Measurement to be taken at front of lens with switch module assembled to indicator light.

2PDT momentary: 4 pounds maximum.

4PDT momentary: 4 pounds maximum.

2PDT alternate: 6 pounds maximum.

4PDT alternate: 7 pounds maximum.

Dielectric withstanding voltage:

Altitude: 50,000 feet.

Electrical endurance: See table I for electrical ratings.

Qualification inspection: Required as part of the four lamp, high impact shock resistant illuminated switch, [MIL-PRF-22885/87](#).

Part or Identifying Number (PIN): See table II.

TABLE I. Electrical ratings.

Load	Sea level		50,000 feet
	28 V dc	115 V ac	28 V dc
	(amperes)	(amperes)	(amperes)
Resistive	5.0	5.0	5.0
Inductive	3.0	5.0	2.5
Lamp	2.4	1.5	2.4

TABLE II. Pin and characteristics.

PIN	Circuit	Operation
M22885/88-01	2PDT	Momentary
M22885/88-02	4PDT	Momentary
M22885/88-03	2PDT	Alternate
M22885/88-04	4PDT	Alternate

Referenced documents:

[MIL-PRF-22885](#)[MIL-PRF-22885/87](#)

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.

Custodians:

Army - CR

Navy - EC

Air Force - 99

DLA - CC

Preparing activity:

DLA - CC

(Project 5930-2022-042)

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/>.