

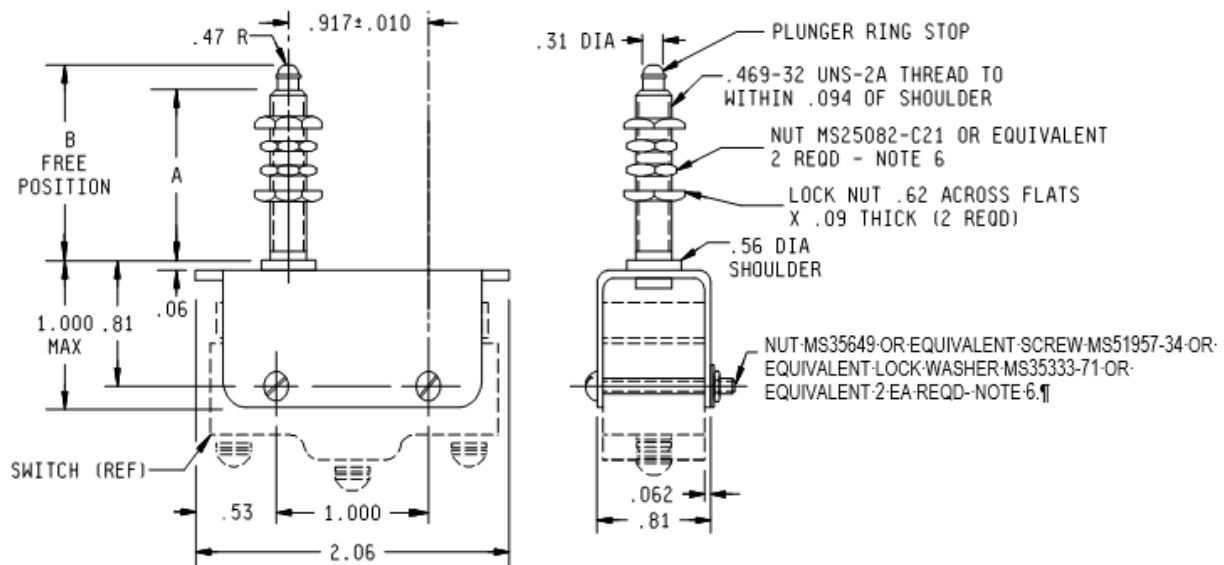
PERFORMANCE SPECIFICATION SHEET

SWITCH, ACTUATOR, EXTENDED PLUNGER TYPE

INACTIVE FOR NEW DESIGN AFTER 30 APRIL 1974

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

The complete requirements for acquiring the switch described herein shall consist of this specification and the latest issue of [MIL-PRF-8805](#).



NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerances are ±.02 inch for two place decimals and ±.005 inch for three place decimals.
3. MS25082-C21 per [MS25082](#). MS35649 per [NASM35649](#). MS51957-34 per [MS51957](#). MS35333-71 per [NASM35333](#).
4. Actuator configuration optional within the specified envelope dimensions.
5. See table I for "A" and "B" dimensions.
6. Functionally equivalent mounting hardware, as approved by the qualifying activity, may be provided.

FIGURE 1: Dimension and configuration.

MIL-PRF-8805/58F

REQUIREMENTS:

Dimensions and configuration: See figure 1. The switch actuator shall accommodate basic sensitive switches M8805/1-008.

Enclosure design: 1 (unsealed).

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

Shock type: M (100 g's).

Sinusoidal vibration: 10 to 55 Hz in accordance with [MIL-STD-202-201](#).

Weight: 0.15 pound maximum.

Operating characteristics:

Actuating force: 1.625 ±.625 pounds.

Pretravel: .035 inch maximum.

Overtravel: .188 inch minimum.

Full overtravel force: see table I.

Spring force: 2 pounds minimum.

Mechanical endurance: 50,000 cycles.

Qualification: The actuator shall be tested to the requirements of this specification sheet only with M8805/1-008 switch installed.

Quality conformance:

Group A inspection: The materials and physical dimension requirements may be verified through in-process controls and inspections.

Group B inspection: Not applicable.

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

TABLE I. PINs' dimensions, and overtravel characteristics.

PIN	"A" ±.02	"B" maximum	Maximum overtravel force
			Pounds
AN3167-1	1.69	2.79	5.5
AN3168-1	1.69	2.16	4.0
AN3168-2	0.69	1.16	5.0

Referenced documents. In addition to [MIL-PRF-8805](#), this document references the following:

[MS25082](#)
[NASM35649](#)
[MS51957](#)
[NASM35333](#)
[MIL-STD-202-201](#)

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 – 85
DLA – CC

Preparing activity:
DLA - CC

(Project 5930-2022-055)

Review activities:

Army – AR, AV
Navy – AS, MC
Air Force – 19

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/>.