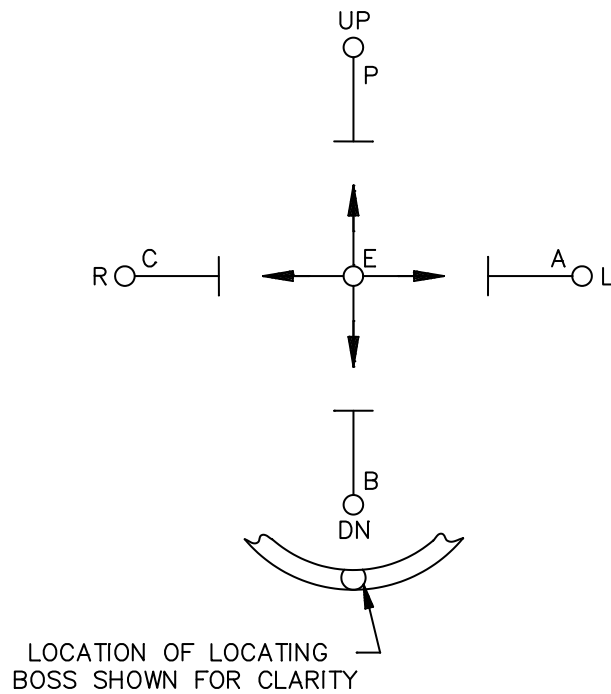


SWITCH, TOGGLE, FOUR POSITION ON, CENTER OFF

The requirements for acquiring the switch described herein shall consist of this specification sheet and the latest issue of MIL-DTL-9419.

FIGURE 1. Dimensions and configurations

MS27708J

Circuit diagram

Arrows indicate contact in the direction of lever travel as viewed from the rear of the switch.

| Inches | mm | Inches | mm | Inches | mm |
|--------|------|--------|-------|--------|-------|
| .005 | 0.13 | .180 | 4.57 | .937 | 23.80 |
| .015 | 0.38 | .200 | 5.08 | .995 | 25.27 |
| .016 | 0.41 | .218 | 5.54 | 1.156 | 29.36 |
| .020 | 0.51 | .275 | 6.99 | 1.215 | 30.86 |
| .078 | 1.98 | .455 | 11.56 | 1.255 | 31.88 |
| .094 | 2.39 | .688 | 17.48 | | |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .010$ (0.25 mm).
4. Terminal end of switch shall have no external moving parts and shall have barriers between terminals.
5. Terminal length optional but must not extend beyond common terminal or diameter of switch.
6. The design of the button and shaft on MS27708-4 shall provide for absolute protection from electrical shock from live shaft and attaching screw. A button shield of insulating material may be utilized for this purpose, as shown in figure 1. Other button and shaft designs may be used to assure this protection, however, all such designs must have prior approval from the qualifying activity. The use of epoxy adhesive alone as an electrical insulation material is not permitted.

FIGURE 1. Dimensions and configurations - Continued.

MS27708J

REQUIREMENTS:

Design and configuration: See figure 1.

Material:

Actuating caps: Actuating caps shall be polycarbonate in accordance with ASTM D3935, color-black.

Marking:

Terminal identification letters shall be molded or engraved adjacent to designated terminal and must be permanent, legible, and clearly visible.

Arrows on top surface of housing shall indicate the direction of travel. They shall be depressed and white filled.

Electrical endurance:

Inductive loads:

MS27708-4:

115 V ac, 400 Hz:

5 amperes, 250,000 cycles.

28 V dc:

20 amperes, 150,000 cycles.

5 amperes, 250,000 cycles.

Part of Identifying Number (PIN): MS 27708-4.

Supersession data: MS27708-1, MS27708-2, and MS27708-3 are canceled and superseded by MS27708-4.

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.

Referenced documents. In addition to MIL-DTL-9419, this document references the following:
ASTM D3935

Custodians:

Army – AV
Navy – AS
Air Force – 85
DLA – CC

Preparing activity:
DLA – CC

Project (5930-2011-035)

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/>.