



| Inches | mm | Inches | mm | Inches | mm |
|--------|------|--------|------|--------|-------|
| .005 | 0.13 | .038 | 0.97 | .364 | 9.25 |
| .008 | 0.20 | .055 | 1.40 | .432 | 10.97 |
| .012 | 0.30 | .072 | 1.83 | .438 | 11.13 |
| .025 | 0.64 | .160 | 4.06 | .469 | 11.91 |
| .030 | 0.76 | .200 | 5.08 | .572 | 14.53 |
| .032 | 0.81 | .240 | 6.10 | .687 | 17.45 |
| | | | | .750 | 19.05 |

NOTES.

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are $\pm .010$ (0.25 mm) on decimals and $\pm 5^\circ$ on angles.
4. For hardware detail specification see appendix of MIL-S-8834.
5. In the event of a conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence.
6. Referenced Government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation shall form a part of this standard to the extent specified herein.
7. Dielectric withstanding voltage: For center on circuits, DWV shall be 1200 V rms at sea level.
8. Toggle seal test: Method 11.
9. The switch shall be electrically and mechanically operative at the conclusion of the shock test with 2000 foot pounds except there can be transfer of the contact mechanism at all levels when tested in accordance with MIL-STD-202, method 207.
10. Terminals. Gold plated.
11. Weight: .0429 pound maximum (19.4 grams).
12. Strength of terminals: 5 pounds normal to the mounting plane and 1 pound in other planes.
13. Altitude: 50,000 feet.
14. 115 V ac 60 hertz electrical endurance tests are to be performed at room temperature and pressure.
15. Terminals need not be marked. Terminal identification is shown for reference purposes only.

(H) Denotes changes

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|--|--|---|
| PREPARING ACTIVITY Air Force-85 CUSTODIANS ARMY NAVY AS AIR FORCE DLA | MILITARY SPECIFICATION SHEET TITLE SWITCH, TOGGLE, POSITIVE BREAK, MINIATURE, TOGGLE SEALED, PRINTED CIRCUIT BOARD TERMINALS, SINGLE POLE, 469 MOUNTING BUSHING | SPECIFICATION SHEET NUMBER MS21356H 4 Sep 1991 SUPERSEDING MS21356G 15 Dec 1989 AMSC N/A FSC 5930 |
| REVIEW Air Force-11, 99 Navy-EC USER PROJECT NUMBER 5930-1454-03 | DISTRIBUTION STATEMENT A Approved for public release, distribution is unlimited | |
| | | Page 1 of 2 |

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODSS SPECIFIED IN THE SOLICITATION

THIS SPECIFICATION IS APPROVED FOR USE BY all Departments and Agencies of the Department of Defense

Detail requirements.

(H)

| MS dash no. | Circuit made between terminals as indicated with the toggle lever in these positions: (a) | | | Current capacity in amperes | | | | Low current level switching 5 mV |
|-------------|---|-----------------|---------------------|-----------------------------|----------------|-----------|-----------------|----------------------------------|
| | | | | Resistive Load | Inductive Load | Load | | |
| | Opposite keyway side (d) | Center position | Keyway tab side (d) | 28 V dc | 115 V | 160 Hz ac | 115 V 160 Hz ac | |
| -211 | | off | on 1-2 | | | | | |
| -221 | on 2-3 | none | off on 1-2 | 5 | 2 | 3 | (b) 1 1 2 | (c) 25 μ A |
| -231 | | | | | | | | |
| -241 | | | none | | | | | |
| -271 | mom-on 2-3 | | mom-on | | | | | |
| -281 | none on 2-3 | off | 1-2 | | | | | |
| -311 | | | | | | | | |
| -321 (e) | none | on 2-3 | | | | | | |

SEE NOTE (e)

(H) (a) Direction of movement of internal mechanism is opposite to the direction of the toggle movement.

(b) With time constant of .020 \pm .002 seconds.

(c) Contact resistance not to exceed 50n during life, low current level switching.

(d) Non-functional terminals shall not be supplied.

(H) (e) Delayed action of the switch toggle lever may cause circuit to close or open before snap action mechanism trips.

Form Approved
OMB No 0704 0188

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CUSTODIANS ARMY NAVY AS
AIR FORCE OLA
REVIEW Air Force-11,99 Navy-EC
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TITLE SWITCH, TOGGLE, POSITIVE
BREAK, MINIATURE, TOGGLE SEALED,
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