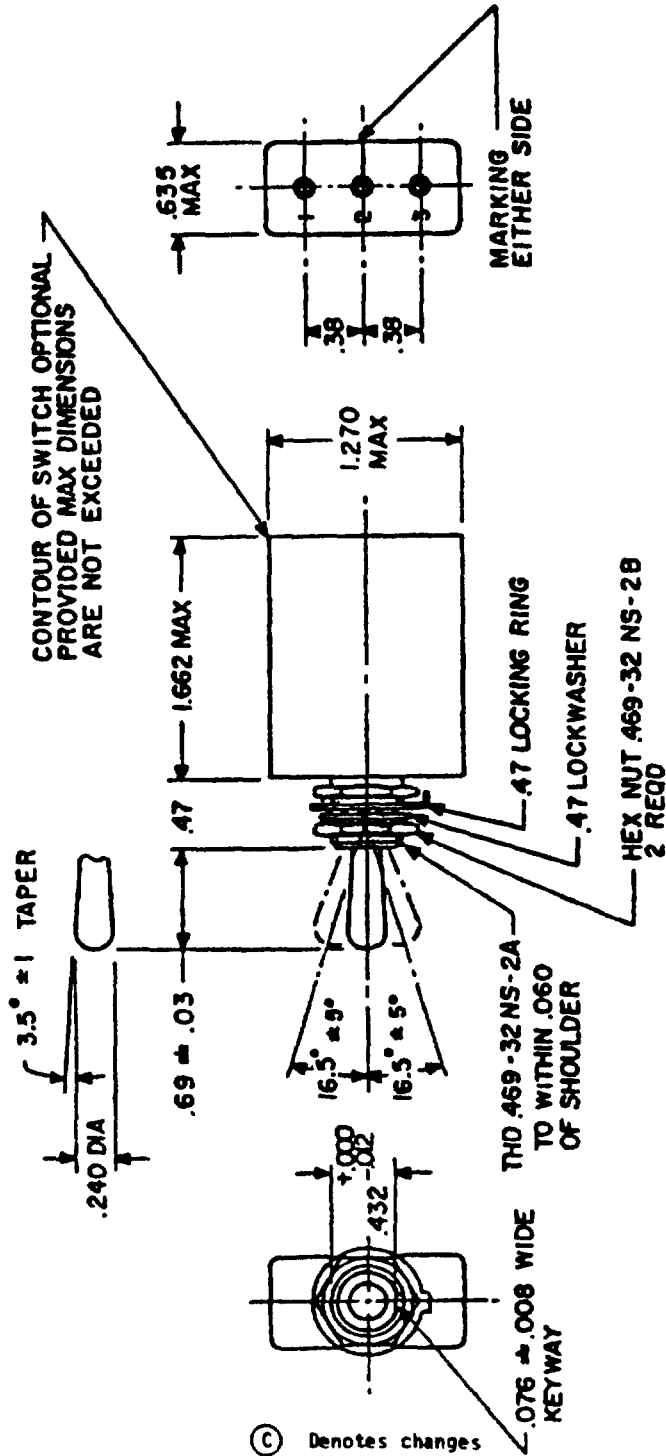


FED. SUP CLASS
5930

User activity: Air Force - 11

Review activities
Army - AV
Navy - EC
Air Force - 99
MLA - ES

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.



(C) Denotes changes

| | | | |
|---------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------|-------------------|
| P A Air Force - 85 Other Cust Army - ER Navy - AS | International Interest | TITLE SWITCH, TOGGLE, ONE POLE, ENVIRONMENTALLY SEALED, INTEGRATED WIRE TERMINALS | MILITARY STANDARD |
| | | | MS27722 |
| Procurement Specification MIL-S-3950 | SUPERSEDES | | PAGE 1 OF 3 |

DD FORM 1 MAY 73 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5930-1358-11

AMSC N/A

DISTRIBUTION STATEMENT A

Approved for public release, distribution is unlimited

APPROVED 30 Jan 1970 REVISED (A) 22 Apr 1971 (B) 25 Apr 1975 (C) 28 Sep 8

User activity: Air Force - 11

Review activities. Army - AV
Navy - EC
Air Force - 99
DLA - ES

Military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications for repetitive use shall be made from this document when applicable.

FED SUP CLASS
5930

| Inches | mm | Inches | mm |
|--------|------|--------|-------|
| .008 | 0.20 | .432 | 10.97 |
| .012 | 0.30 | .469 | 11.91 |
| .03 | 0.8 | .47 | 11.9 |
| .076 | 1.93 | .635 | 16.13 |
| .240 | 6.10 | .69 | 17.5 |
| .38 | 9.7 | 1.270 | 32.26 |
| | | 1.662 | 42.21 |

NOTES.

1. Dimensions are inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is ± 0.020 (0.51 mm) for two place decimals and ± 0.005 (0.13 mm) for three place decimals.
4. For hardware detail specifications, see appendix of MIL-S-3950.
5. Contact installing/removal tool in accordance with M81969/14-03.
6. Grommet sealing plug, in accordance with MS27488A16.
7. The sealing grommet shall seal on a smooth wire insulation of .068 (1.73 mm) to .103 (2.62 mm) diameters.
8. Terminal shall adequately accept a wire contact within dimensional limits of M39029/1-102.
9. The terminal end of switch shall be color coded blue to indicate contact size.
10. Direction of internal mechanism movement is opposite to the direction of the toggle movement.
11. Sealing plugs may be used in nonfunctional grommet holes.
12. Maximum weight is .105 pound.
13. In the event of a conflict between the text of this standard and the reference cited herein, the text of this standard shall take precedence.
14. 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 form a part of this standard to the extent specified herein.

APPROVED 30 Jan 1970 REVISED (C) For changes see page 2

| | | | |
|---------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------|-------------------|
| P A Air Force - 85 Other Cust Army - ER Navy - AS | International Interest | TITLE SWITCH, TOGGLE, ONE POLE, ENVIRONMENTALLY SEALED, INTEGRATED WIRE TERMINALS | MILITARY STANDARD |
| | | | MS27722 |
| Procurement Specification MIL-S-3950 | SUPERSEDES | PAGE 2 OF 3 | |

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

Review activities:
 Army - AV
 Navy - EC
 Air Force - 99
 DLA - ES

User activity: Air Force - 11

| MS part number | Circuit with toggle lever in | | Current capacity (amperes) 28 volts dc | | | Current capacity (amperes) 115 volts, 60 and 400 hertz ac | | | |
|----------------|------------------------------|----------|-------------------------------------------|-------------------|-------------------|--------------------------------------------------------------|-------------------|-------------------|-------------------|
| | Keying side | Center | Opposite keying side | Lamp-load circuit | Resistive circuit | Inductive circuit | Lamp-load circuit | Resistive circuit | Inductive circuit |
| MS27722-21 | 1-2 On | Off | 2-3 On | | | | | | |
| MS27722-22 | Off | None | 2-3 On | 5 | 20 | 15 | 3 | 15 | 10 |
| MS27722-23 | 1-2 On | None | 2-3 On | | | | | | |
| MS27722-24 | None | Off | 2-3 On | | | | | | |
| MS27722-25 | None | Mom. off | 2-3 On | | | | | | |
| MS27722-26 | 1-2 Mom. on | None | 2-3 On | | | | | | |
| MS27722-27 | 1-2 Mom. on | Off | 2-3 Mom. on | | | | | | |
| MS27722-28 | 1-2 Mom. on | Off | None | | | | | | |
| MS27722-29 | None | None | 2-3 On | 4 | 15 | 10 | 2 | 15 | 7 |
| MS27722-30 | 1-2 Mom. on | None | Off | | | | | | |
| MS27722-31 | 1-2 Mom. on | Off | 2-3 On | | | | | | |
| MS27722-32 | None | On 1-2 | 2-3 Mom. on | | | | | | |
| MS27722-33 | None | On 1-2 | 2-3 On | 5 | 20 | 15 | 3 | 15 | 10 |

Detail requirements:

Test requirements:

Test shall be performed in accordance with MIL-S-3950 except:

- During all tests, switches shall be fully wired with appropriate wire and terminal contacts.
- Contact voltage drop - the contact voltage drop with two terminals and the switch contact in series shall not exceed 8 millivolts measured from one wire contact through the contacts to the other wire contacts.

FED SUP CLASS
5930

P A
Air Force - 85
Other Cust
Army - ER
Navy - AS

International
Intersect

TITLE

SWITCH, TOGGLE, ONE POLE,
ENVIRONMENTALLY SEALED,
INTEGRATED WIRE TERMINALS

MILITARY STANDARD

MS27722

Procurement Specification
MIL-S-3950

SUPERSEDES

PAGE 3 OF 3

DD FORM 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
1 MAY 73

APPROVED 30 Jan 1970 REVISED (C) For change see page 2