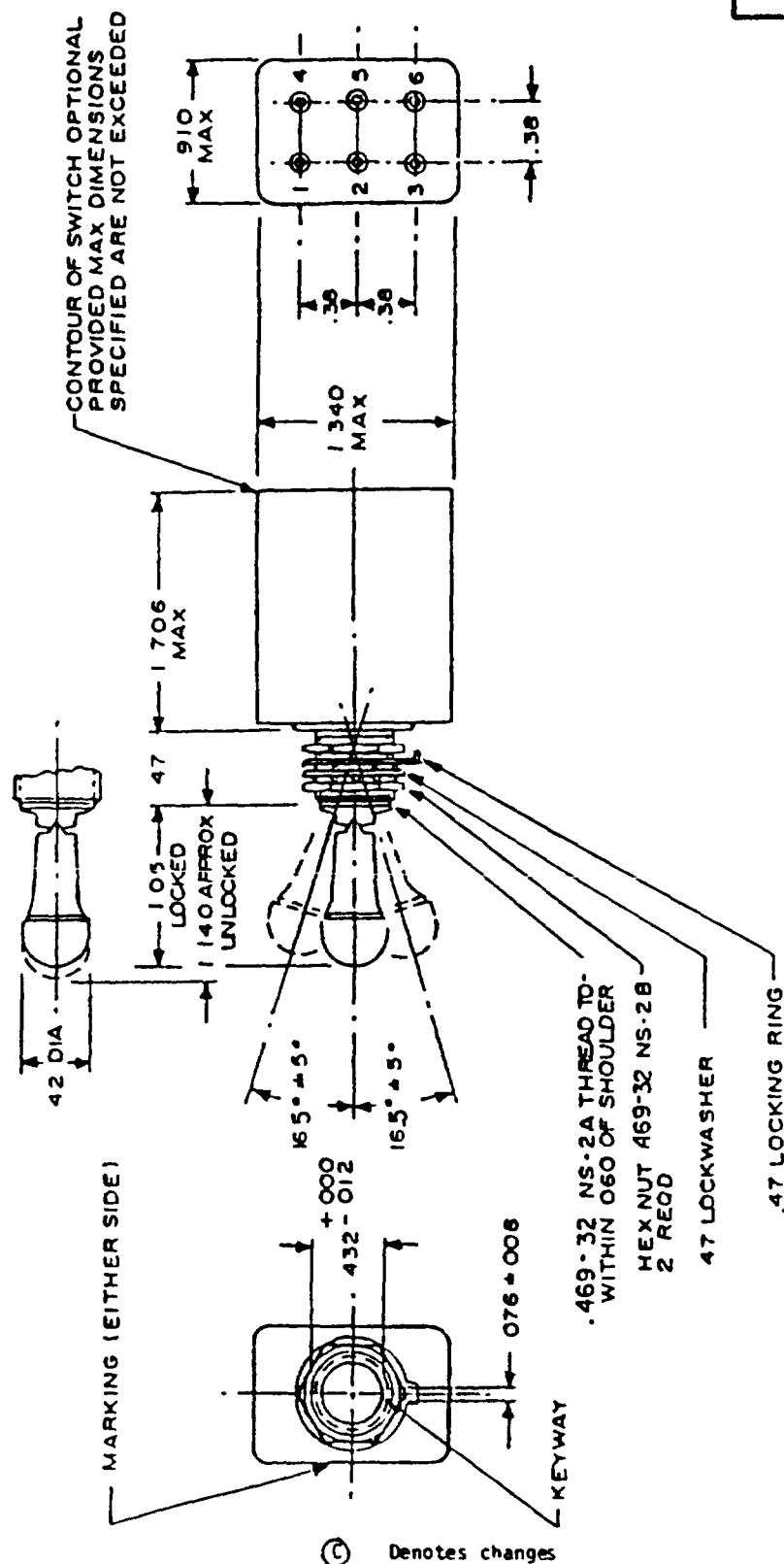


User activity: Air Force - 21

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

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P A Air Force - 85 Other Cust Army - ER Navy - AS		International Interior	TITLE SWITCH, TOGGLE, TWO POLE, ENVIRONMENTALLY SEALED, LEVER-LOCK, INTEGRATED WIRE TERMINALS	MILITARY STANDARD MS27788
Procurement Specification MIL-S-3950		SUPERSEDES		PAGE 1 OF 4

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APPROVED 15 May 1972 REVISED (A) 14 May 1974 (B) 25 Apr 1975 (C) 28 Sep 1987

DD FORM 672
1 MAY 73

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5930-1358-27

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Inches	mm	Inches	mm
.005	0.13	.432	10.97
.008	0.20	.469	11.91
.012	0.30	.47	11.9
.020	0.51	.910	23.11
.060	1.52	1.05	26.7
.076	1.93	1.140	28.96
.38	9.7	1.340	34.04
.42	10.7	1.706	43.33

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 MB1969/14-02.
6. Grommet sealing plug in accordance with MS27488A20.
7. Sealing grommet shall seal on a smooth wire insulation of .040 (1.02 mm) to .083 (2.11 mm) diameters.
8. Terminals shall adequately accept a wire contact dimensional limits of M39029/1-101.
9. The terminal end of switch shall be color coded red 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 .137 pound.
13. Locking arrangement: Positive locking shall be accomplished and shall prevent motion of the toggle lever until the locking mechanism is manually released.
14. The force required to release the locking mechanism shall be 3 to 5 pounds.
15. The locking means at the top of the toggle bushing shall be capable of withstanding a torque of 20 inch-pounds applied in both directions immediately following the humidity test.
16. Part number example: MS27788-21A (locking combination 'A').
17. 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.
18. 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 15 May 1972 REVISED C For changes see page 2.

P A Air Force - 85 Other Cust Army - ER Navy - AS	Informational Intersect	TITLE SWITCH, TOGGLE, TWO POLE, ENVIRONMENTALLY SEALED, LEVER-LOCK, INTEGRATED WIRE TERMINALS	MILITARY STANDARD
Procurement Specification MIL-S-3950		SUPERSEDES	MS27788
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Locking combinations

A	LOCKED IN THREE POSITIONS (KEYING SIDE)	B	LOCKED IN CENTER AND DOWN POSITIONS (KEYING SIDE)	D	LOCKED OUT OF CENTER POSITION	E	LOCKED IN CENTER POSITION	F	LOCKED IN UP POSITION (OPPOSITE KEYING)	G	LOCKED IN DOWN POSITION (KEYING SIDE)	H	LOCKED OUT OF CENTER AND DOWN POSITION (KEYING SIDE)	P	FIGURES A THROUGH P DO NOT REPRESENT DETAILS OF CON- STRUCTION. THEY SCHEMATICALLY ILLUSTRATE LOCKING CONFIGURATIONS AND MOMENTARY POSITIONS
J	LOCKED OUT OF CENTER AND UP POSITION (OPPOSITE KEYING)	K	LOCKED IN CENTER AND UP POSITION (OPPOSITE KEYING)	L	LOCKED OUT OF DOWN POSITION (KEYING SIDE)	M	LOCKED OUT OF AND INTO UP POSITION (OPPOSITE KEYING)	N	LOCKED OUT OF UP POSITION (OPPOSITE KEYING)	P	LOCKED OUT OF AND INTO DOWN POSITION (KEYING SIDE)				

P A
Air Force - 85
Other Cust
Army - ER
Navy - ASInternational
Intersect

TITLE

SWITCH, TOGGLE, TWO POLE,
ENVIRONMENTALLY SEALED,
LEVER-LOCK, INTEGRATED
WIRE TERMINALS

MILITARY STANDARD

MS27788

Procurement Specification
MIL-S-3950

SUPERSEDES

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User activity: Air Force - 11

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Detail requirements.									
MS part number	Available locking combinations	Circuit with toggle lever in		Current capacity (amperes)		Current capacity (amperes)		Current capacity (amperes)	
		Keying side	Center keying side	Opposite keying side	Lamp-load Resistive circuit	Lamp-load Inductive circuit	Lamp-load Resistive circuit	Lamp-load Inductive circuit	115 volts, 60 and 400 hertz ac
MS27788-1	A11	1-2 On 4-5	1-2 On 5-6	2-3 On 5-6	7	7.5	4	7.5	7.5
MS27788-2	E, F, K, L, M, N	1-2 on 4-5	1-2 On 5-6	2-3 On 5-6					
MS27788-3	E, L, N	1-2 on 4-5	1-2 On 5-6	2-3 on 5-6	5	7.5	2	7.5	7.5
MS27788-21	A11	1-2 On 4-5	Off	2-3 On 5-6					
MS27788-22	D, F, G	Off	None	2-3 On 5-6	7	7.5	4	7.5	7.5
MS27788-23	D, F, G	1-2 On 4-5	None	2-3 On 5-6					
MS27788-24	E, F, K, M	None	Off	2-3 On 5-6					
MS27788-25	F	None	Mon. off	2-3 On 5-6					
MS27788-26	F	1-2 on 4-5	None	2-3 On 5-6					
MS27788-27	E, L, N	1-2 on 4-5	Off	2-3 on 5-6					
MS27788-28	E	1-2 on 4-5	Off	None	5	7.5	2	7.5	7.5
MS27788-29	F	Mon. off	None	2-3 On 5-6					
MS27788-30	F	1-2 on 4-5	None	Off					
MS27788-31	E, F, K, L, M, N	1-2 on 4-5	Off	2-3 On 5-6					
MS27788-32	E	None	1-2 On 4-5	2-3 on 5-6					
MS27788-33	E, F, K, M	None	1-2 On 4-5	2-3 On 5-6	7	7.6	4	7.5	7.5

Test requirements:

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

a. During all tests, switches shall be fully wired with appropriate wire and terminal contacts.

b. 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.

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