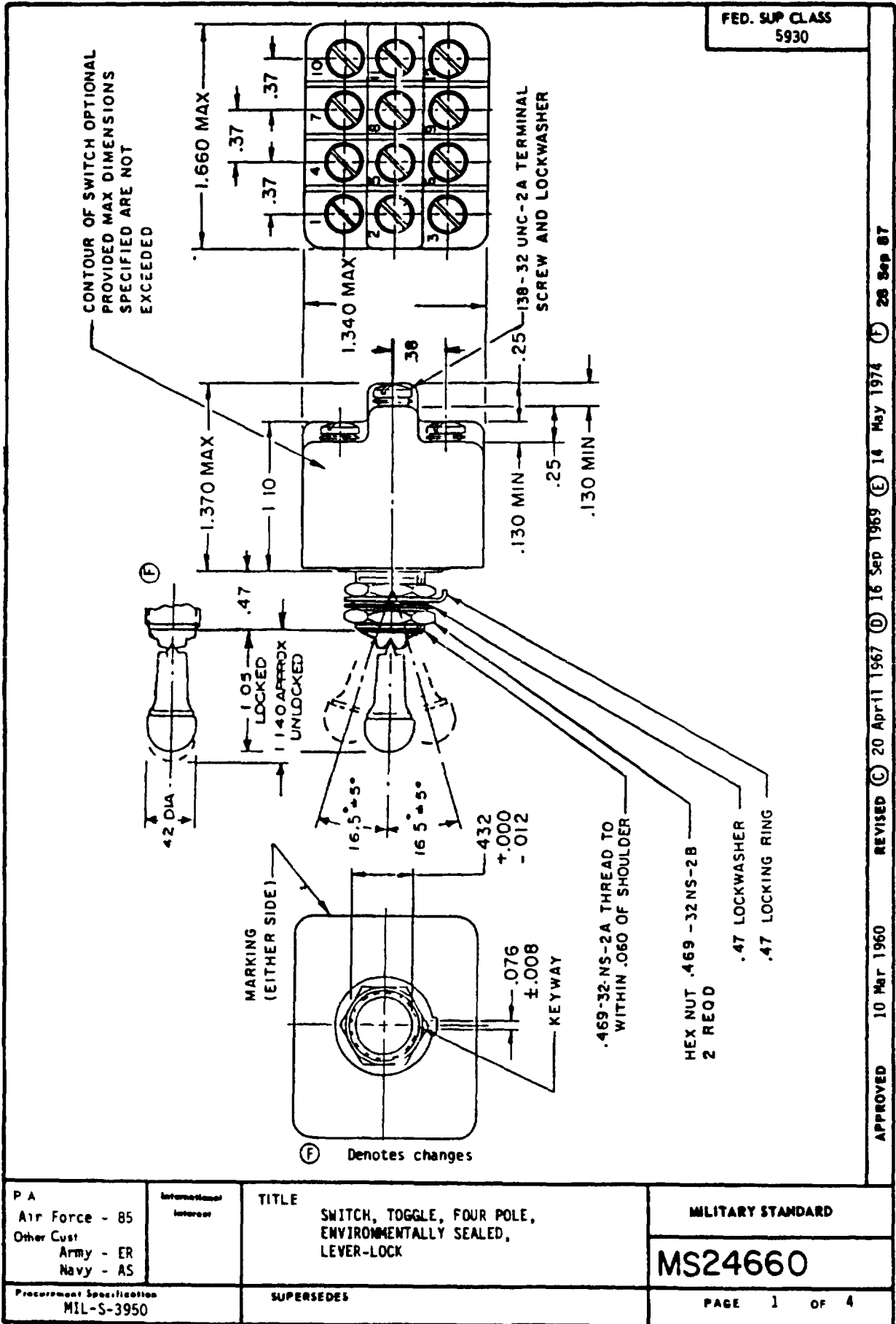


This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

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

User activity: Air Force - 11



FED. SUP CLASS  
5930

P A Air Force - 85 Other Cust Army - ER Navy - AS	International Interest	TITLE SWITCH, TOGGLE, FOUR POLE, ENVIRONMENTALLY SEALED, LEVER-LOCK	MILITARY STANDARD
			MS24660
Procurement Specification MIL-S-3950	SUPERSEDES		PAGE 1 OF 4

APPROVED 10 Mar 1960 REVISED C 20 Apr 11 1967 D 16 Sep 1969 E 14 May 1974 F 28 Sep 87

User activity: Air Force - 11

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

Review activities

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Inches	mm	Inches	mm
.005	0.13	.38	9.7
.008	0.20	.42	10.7
.012	0.30	.432	10.97
.020	0.38	.47	11.9
.060	0.51	1.05	26.67
.076	1.93	1.10	27.94
.130	2.29	1.140	28.96
.25	6.4	1.340	34.04
.37	9.4	1.370	34.80
		1.660	42.16

NOTES

1. Dimensions are inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is  $\pm 0.020$  (0.51 mm) for two place decimals and  $\pm 0.005$  (0.13 mm) for three place decimals.
- ④ 4. For hardware and terminal screw detail specifications, see appendix of MIL-S-3950.
5. All switches on this standard are designed so that the movement of the switch mechanism is opposite to that of the toggle lever.
6. Maximum weight is 0.20 pound.
7. Locking arrangement Positive locking shall be accomplished and shall prevent motion of the toggle lever until the locking mechanism is manually released.
8. The force required to release the locking mechanism shall be 3 to 5 pounds.
9. 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.
10. Part number example. MS24660-21A (locking combination 'A').
- ④ 11. 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.
- ④ 12. 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 10 Mar 1960 REVISED ④ For changes see pages 1 and 2

P A Air Force - 85 Other Cust Army - EP Navy - AS	International: Interest	TITLE SWITCH, TOGGLE, FOUR POLE, ENVIRONMENTALLY SEALED, LEVER-LOCK	MILITARY STANDARD
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Review activities: Army - AV  
Navy - EC  
Air Force - 99  
DLA - ES

User activity: Air Force - 11

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Locking combinations

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

P A Air Force - 85 Other Cust Army - ER Navy - AS	Internal Number (blank)	TITLE SWITCH, TOGGLE, FOUR POLE, ENVIRONMENTALLY SEALED, LEVER-LOCK	MILITARY STANDARD
			MS24660
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Review activities: Army - AV, Navy - EC, Air Force - 99, DLA - ES

User activity: Air Force - 11

Detail requirements.

MS part number	Available locking combinations	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	Lamp-load circuit
MS24660-21	All	1-2 7-8 4-5 On 10-11	Off	2-3 8-9 5-6 On 11-12			
MS24660-22	D, F, G	Off	None	2-3 8-9 5-6 On 11-12	5	20	4 15
MS24660-23	D, F, G	1-2 7-8 4-5 On 10-11	None	2-3 8-9 5-6 On 11-12			
MS24660-24	E, F, K, M	None	Off	2-3 8-9 5-6 On 11-12			
MS24660-25	F	None	Mom. off	2-3 8-9 5-6 On 11-12			
MS24660-26	F	1-2 Mom. 7-8 4-5 on 10-11	None	2-3 8-9 5-6 On 11-12			
MS24660-27	E, L, N	1-2 Mom. 7-8 4-5 on 10-11	Off	2-3 Mom. 8-9 5-6 on 11-12			
MS24660-28	E	1-2 Mom. 7-8 4-5 on 10-11	Off	None	4	18	2 11 8
MS24660-29	F	Mom. off	None	2-3 8-9 5-6 On 11-12			
MS24660-30	F	1-2 Mom. 7-8 4-5 on 10-11	None	Off			
MS24660-31	E, F, K, L, M, N	1-2 Mom. 7-8 4-5 on 10-11	Off	2-3 8-9 5-6 On 11-12			
MS24660-32	E	None	1-2 7-8 12-3 Mom. 8-9 4-5 On 10-11 5-6 on 11-12				
MS24660-33	E, F, K, M	None	1-2 7-8 12-3 4-5 On 10-11 5-6 On 11-12		5	20	4 15 15

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

International Interest

TITLE

SWITCH, TOGGLE, FOUR POLE, ENVIRONMENTALLY SEALED, LEVER-LOCK

MILITARY STANDARD

MS24660

Procurement Specification  
MIL-S-3950

SUPERSEDES

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DD FORM 1 MAY 73 672

(Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

APPROVED 10 Mar 1960 REVISED (E) For changes see pages 1 and 2