



Inches		inches		inches	
.005	0.13	.072	1,83	.47	11.94
.020	0.51	.090	2.29	. 51	12. 9 5
.030	0.76	. 10	2.54	.535	13.59
.04	1.02	.175	4.45	.575	14.61
.062	1.57	.27	6,68	.740	18, 80
.07	1.78	.428	10.87	1.160	29.46
•	7				

NOTES:

1. Dimensions are in inches.

2. Unless otherwise specified, tolerance is ±.020 on two place decimals

and $\pm .005$ on three place decimals. 3. For hardware detail specifications, see supplement of MIL-S-83731.

 Configuration of switch case is optional provided maximum dimensions specified are not exceeded.

5. Metric equivalents are given for general information only.

DETAIL REQUIREMENTS:

LOCKING COMBINATIONS (KEYING SIDE)

LOCKED IN THREE POSITIONS	LOCKED IN CENTER AND DOWN POSITION (KEYING SIDE)	LOCKED OUT OF CENTER POSITION	LOCKED IN CENTER POSITION	LOCKED IN UP POSITION (OPPOSITE KEYING)	LOCKED IN DOWN POSITION (KEYING SIDE)	LOCKED OUT OF CENTER AND DOWN POSITION (KEYING SIDE)
LOCKED OUT OF CENTER AND UP POSITION (OPPOSITE KEYING)	LOCKED IN CENTER AND UP POSITION (OPPOSITE KEYING)	LOCKED OUT OF DOWN POSITION (KEYING SIDE)	LOCKED OUT OF AND IN TO UP POSITION (OPPOSITE KEYING)	LOCKED OUT OF UP POSITION (OPPOSITE KEYING)	LOCKED OUT OF AND INTO DOWN POSITION (KEYING SIDE)	FIGURES A THRU P DO NOT REPRESENT DETAILS OF CON — STRUCTION THEY SCHEMATICALLY ILLUSTRATE LOCK— ING COMFIGURATIONS IN MOM POSITIONS
CANCEL PART N	UMBER PART N	UMBER COMBI	LE LOCKINGT KEY NATIONS SI 1-2		T OF POSITION [KEY] 12-3	POSITE
	-22 -23 -26 -27 -31	-23-1 D -26-1 -27-1 E	,F,G F MO ,L,N MO	ON I NO		ON I ON I ON I MOM-ON I

The canceled part numbers are no longer procurable; the substitute part numbers have a lower dielectric withstanding voltage at reduced barometric pressure (see 2 below).

(G) denotes changes

PALE FORCE 85
Other Cust
Novy - AS
Army - ER

PROCUREMENT SPECIFICATION
MIL-S-83731

INTERNATIONAL
INTERNATIONAL
INTERNATIONAL
INTERNATIONAL
INTERNATIONAL
SWITCH, TOGGLE, MINIATURE, DOUBLE
POLE, TOGGLE SEAL, LEVER LOCK
MIL-S-83731

MILITARY STANDARD

MILITARY STANDARD

SWITCH, TOGGLE, MINIATURE, DOUBLE
PROCUREMENT SPECIFICATION
MIL-S-83731

SHEET 1 OF 2

(G) 20 MAY 1988

1981

FEB

9

Œ

1984

14 AUG

 Θ

(B) 5 AUG 1971 (C) 22 MAY 1972 (D) 14 MAY 1974

REVISED (A) 16 SEPT 1969

MAY 1968

9

APPROVED

FED SUP CLASS 5930

USER ACTIVITIES

88

REVIEWER ACTIVITIES

Ar Force S

Army A

Novy

DLA - E

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

NOTES:

- All switches on this standard are designed so that the movement of the switch 1. mechanism is opposite to that of the toggle lever.
- Test voltage for dielectric withstanding voltage at reduced barometric pressure, shall be 400 Y rms minimum.

Electrical endurance shall be performed for 30,000 cycles.

Mechanical endurance shall be performed 50,000 cycles at -65°C and then 50,000 cycles at 85°C.

Intermediate current shall be performed for 30,000 cycles.

- Terminals shall be molded into the switch case and shall accommodate no. 18 awy wire.
- Locking arrangement. Positive locking shall be accomplished and shall prevent motion of the toggle lever until the locking mechanism is manually released.
- The force required to release the locking mechanism shall be 3 to 5 pounds.
- The locking means at the top of the toggle bushing shall be capable of withstanding a torque of 20 lb. inch applied in both directions immediately following the humidity test

Maximum weight shall be .045 lb.

- Electrical ratings for 28 volts do and 115 volts ac at 400 Hz.
 - Lamp load = 1 ampere, resistive load = 5 amperes, inductive load = 2 amperes.

Part number example: MS27721-21-1A (locking combination 'A').

- In the event of a conflict between the text of this standard and the reference **©13.** cited herein, the text of this standard shall take precedence.
- (G) 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.

P A Air Force 85 Other Cust	INTERNATIONAL IMTEREST	SWITCH, TOGGLE, MINIATURE, DOUBLE POLE, TOGGLE SEAL, LEVER LOCK	MILITARY STANDARD
Novy - AS Army - ER			MS27721
PROCUREMENT SPE	CIFICATION SUPERS	EDES:	SHEET 2 OF 2

PORE ETO-1 (COORDINATED)