

INCH-POUND

MS24612L

5 October 2011

SUPERSEDING

MS24612K

30 September 1986

DETAILED SPECIFICATION SHEET

SWITCH, TOGGLE, POSITIVE BREAK, LEVER LOCK, ENVIRONMENTALLY SEALED,
SCREW TERMINAL, SINGLE POLE, .469 MOUNTING BUSHING, 25 AMPERES

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the products described herein shall consist of this specification sheet and MIL-DTL-8834.

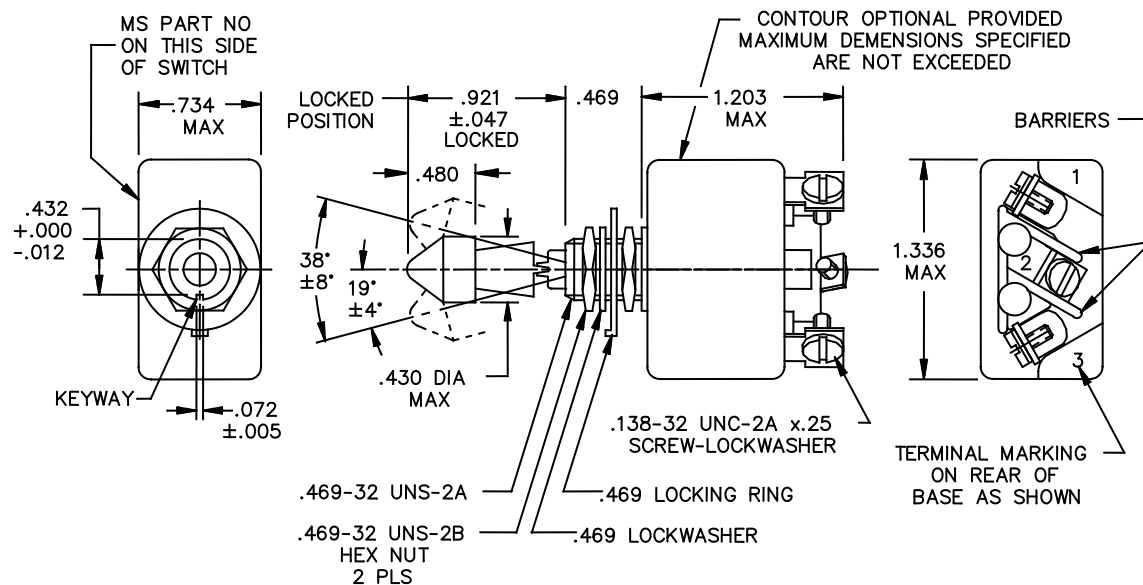
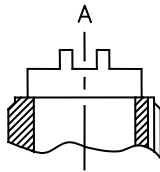


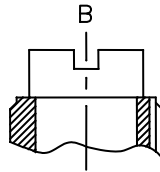
FIGURE 1. Dimensions and configuration.

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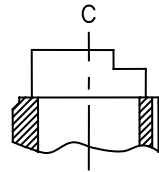
KEYING SIDE
→



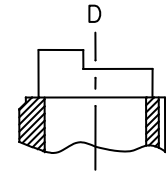
LOCKED IN
THREE
POSITIONS



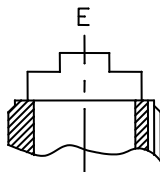
LOCKED IN
CENTER
POSITION



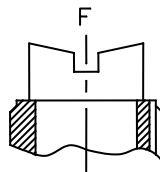
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KEYWAY
SIDE



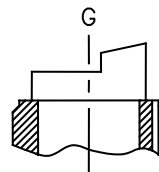
LOCKED OUT OF
SIDE OPPOSITE
KEYWAY



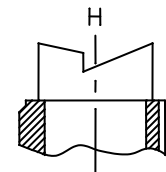
LOCKED OUT OF
CENTER
POSITION



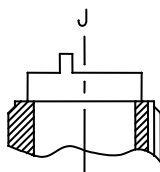
LOCKED IN
CENTER POSITION
MOMENTARY
EITHER SIDE



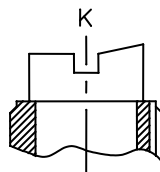
LOCKED OUT OF
KEYWAY SIDE
MOMENTARY
KEYWAY SIDE



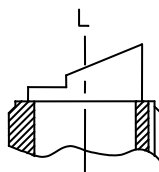
LOCKED OUT OF
SIDE OPPOSITE
KEYWAY
MOMENTARY
EITHER SIDE



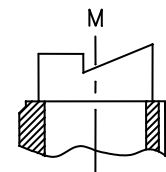
LOCKED OUT
OF AND INTO
SIDE OPPOSITE
KEYWAY



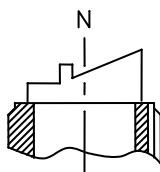
LOCKED IN
CENTER POSITION
MOMENTARY
KEYWAY SIDE



LOCKED IN
SIDE OPPOSITE
KEYWAY
MOMENTARY
KEYWAY SIDE



LOCKED OUT OF SIDE
OPPOSITE KEYWAY
MOMENTARY
KEYWAY SIDE



LOCKED OUT
OF AND INTO
SIDE OPPOSITE
KEYWAY, MOMENTARY
KEYWAY SIDE

FIGURES A THRU N ILLUSTRATE THE LOCKING AND
MOMENTARY CONFIGURATIONS AND NOT THE DETAIL
CONSTRUCTION OF LOCKING DESIGN.

FIGURE 1. Dimensions and configuration - Continued.

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MS dash number	Superseded dash number sealed						
Environmental sealed	Toggle	Environmental	Toggle	Inches	mm	Inches	mm
212	-21	-21S	-211	.005	0.13	.432	10.97
222	-22	-22S	-221	.012	0.30	.469	11.91
232	-23	-23S	-231	.047	1.19	.480	12.19
242	-24	-24S	-241	.072	1.83	.734	18.64
262	-26	-26S	-261	.138	3.51	.921	23.39
272	-27	-27S	-271	.250	6.35	1.203	30.56
282	-28	-28S	-281	.430	10.92	1.336	33.93
292	-29	-29S	-291				
302	-30	-30S	-301				
312	-31	-31S	-311				

Example of Part or Identifying Number (PIN):

MS24612B212 = on-off-on, environmentally sealed, locked in center off position.

MS24612F272 = mom-on, off, mom-on, environmentally sealed, locked in center off position.

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ± 0.010 (0.25 mm) on decimals and $\pm 5^\circ$ on angles.

FIGURE 1. Dimensions and configuration - Continued.

REQUIREMENTS:

For hardware and terminal screw detail specifications, see appendix of MIL-DTL-8834.

In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence.

The superseded dash numbers are inactive for design after 20 July 1962.

Maximum weight: .1132 pound maximum (51.4 grams).

Altitude requirements: 80,000 feet.

115 V ac 60 hertz electrical endurance tests are to be performed at room temperature and pressure.

Unlocking force = 4 ± 1 pound.

TABLE I. Detail requirements.

MS dash no.	Locking comb.	Circuit made between terminals as indicated with the toggle lever in these positions:			Current capacity amperes per pole 28 volts dc			Current capacity amperes per pole 115 volts 100 hertz			Circuit capacity amperes per pole 115 volts 60 hertz		
Environmentally sealed					Lamp load circuit	Resistive circuit	Inductive circuit	Lamp load circuit	Resistive circuit	Inductive circuit	Lamp load circuit	Resistive circuit	Inductive circuit
212	A, B, C, D, E	on 2-3	off	on 1-2	7	25	15	7	25	15	7	20	15
222	C, E		none	off									
232				on 1-2									
242	J, B		off	none									
262	L		none	mom-on 1-2									
272	F, H	mom-on 2-3	off										
282	K	none	mom-off										
292	L	on 2-3		none									
302		off											
312	G, K, M, N	on 2-3	off	mom-on 1-2									

1/ See footnote at end of table.

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TABLE I. Detail requirements - Continued

MS dash no.	Current capacity amperes per pole 250 volts 60 Hz ac <u>1/</u>			Current capacity amperes per pole 125 volts dc <u>1/</u>			Circuit capacity amperes per pole 250 volts dc <u>1/</u>			Life low current level switching 30 mV
Environ- mentally sealed	Lamp load circuit	Resis- tive circuit	Induc- tive circuit	Lamp load circuit	Resis- tive circuit	Induc- tive circuit	Lamp load circuit	Resis- tive circuit	Induc- tive circuit	
212		10	7		750 mA	---		500 mA	---	10 mA
222										
232										
242										
262										
272										
282										
292										
302										
312										

1/ Application information ratings at room temperature.

Referenced documents:
MIL-DTL-8834

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:
Army - CR
Navy - AS
Air Force - 85
DLA - CC

Preparing activity:
DLA – CC
(Project 5930-2011-082)

Review activities:
Army - AR, MI
Navy - EC
Air Force - 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.daps.dla.mil>.