

INCH-POUND

MS25002K

3 March 2011

SUPERSEDING

MS25002J

17 September 1982

DETAIL SPECIFICATION SHEET

SWITCH, ROTARY, 28/115 VOLTS

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

The requirements for acquiring the product described herein shall consist of this specification sheet and the latest issue of MIL-DTL-6807.

Inactive for new design after 24 June 2005

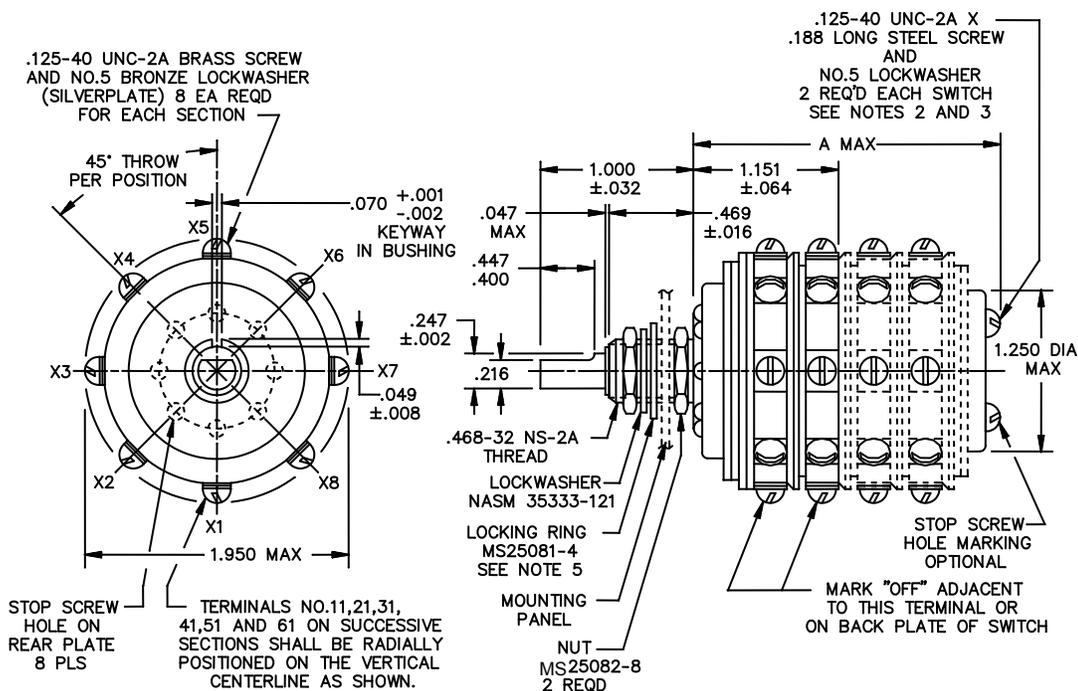
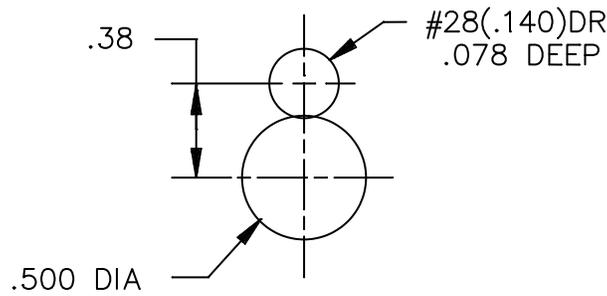


FIGURE 1. Dimensions and configurations.

MS25002K



SUGGESTED DIMENSIONS  
FOR MTG PANEL  
FRONT VIEW

Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	0.03	.047	1.19	.216	1.32	1.000	11.13
.002	0.05	.049	1.24	.247	1.83	1.151	11.91
.008	0.20	.064	1.63	.400	4.29	1.250	14.12
.016	0.41	.070	1.78	.447	8.59	1.719	14.53
.032	0.81	.188	4.78	.469	10.92	1.950	17.93

NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) are given for general information only.
3. Unless otherwise specified, tolerances are  $\pm 0.005$  (0.13 mm) for decimals and  $\pm 5^\circ$  for angles.

FIGURE 1. Dimension and configurations - Continued.

TABLE I. General requirements.

Current capacity		Sea level electrical cycles	Altitude electrical cycles 50,000 feet	Mechanical cycles
28 Volts dc	Amp			
Resistive	5	10,000	---	---
Inductive	2.5	---	2,500	10,000
Lamp load	2	10,000	---	---
115 volts, 400 Hz ac		Amp		
Resistive	5	10,000	---	---
50 percent power factor	2	---	2,500	10,000

## MS25002K

TABLE II. Detail requirements.

MS25002 Shock method I and II	Number of sections	Torque (lb-in)		Wt Lb Max	A Dim
		Min	Max		
-1	1	2.0	5.0	.31	1.18
-2	2	3.0	6.0	.37	1.57
-3	3	3.5	7.0	.43	1.94
-4	4	4.0	8.0	.50	2.31
-5	5	4.0	9.0	.56	2.69
-6	6	4.0	10.5	.62	3.06

TABLE III. Supersession table.

Superseding dash number		Superseded dash number
Shock method I and II		Shock method 1 and II
-1		-12
-2		-22
-3		-32
-4		-42
-5		-52
-6		-62

## REQUIREMENTS:

For each additional section, add .375 (9.53 mm)  $\pm$ .016 (0.41) to the 1.151 (29.24 mm) dimension.

Switch has continuous rotation with "OFF" and seven "ON" positions. The indexing arm, visible through the tapped holes, points to the terminal to which contact is being made. Rotation may be restricted by inserting screws in the rear stop plate cover. EXAMPLE: If indexing screws are inserted between terminals X1 and X8 and X3 and X4, as shown, while the indexing arm is at terminal X1, X2, or X3; rotation is restricted to provide an "OFF" position at X1 and "ON" positions at X2 and X3. Shaft is shown in the "OFF" position.

Threads in accordance with FED-STD-H-28, "Screw-Threads Standards for Federal Services."

"OFF" position of knob may be oriented as desired by positioning of mounting panel detent for engagement with locking ring bent tab.

Shock Method II is required for shipboard application.

For design feature purposes, this standard takes precedence over acquisition documents referenced herein.

Referenced documents shall be of the issue in effect on date of invitations for bids, or request for proposal except that referenced adopted industry documents shall give the date of the issue adopted.

MS25002K

Referenced documents. In addition to MIL-DTL-6807, this document references the following:

FED-STD-H28

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.

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

Preparing activity:  
DLA - CC  
  
(Project 5930-2011-016)

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/>.