

## DETAIL SPECIFICATION

SWITCHES, TOGGLE, UNSEALED AND SEALED TOGGLE  
GENERAL SPECIFICATION FOR

This supplement forms a part of MIL-DTL-83731D, dated 2 July 2010.

## SPECIFICATION SHEETS

- MIL-DTL-83731/9 - Switches, Toggle, Miniature, Lever Seal, Panel Seal, Single Pole.
- MIL-DTL-83731/10 - Switches, Toggle, Miniature, Lever Seal, Panel Seal, Double Pole.
- MIL-DTL-83731/11 - Switches, Toggle, Miniature, Lever Lock, Single Pole, Unsealed.
- MIL-DTL-83731/12 - Switches, Toggle, Miniature, Lever Lock, Double Pole, Unsealed.
- MIL-DTL-83731/13 - Switches, Toggle, Miniature, Right angle (Vertical) PCB Mount, Single Pole, Lever Seal, Flux Seal.
- MIL-DTL-83731/14 - Switches, Toggle, Miniature, Right Angle (Vertical) PCB Mount, Double Pole, Lever Seal, Flux Seal.
- MIL-DTL-83731/15 - Switches, Toggle, Miniature, Right Angle (Horizontal) PCB Mount, Single Pole, Lever Seal, Flux Seal.
- MIL-DTL-83731/16 - Switches, Toggle, Miniature, Right Angle (Horizontal) PCB Mount, Double Pole, Lever Seal, Flux Seal.
- \* MIL-DTL-83731/21 - Switches, Toggle, Miniature, Lever Seal, Panel Seal, Four Pole Logic Load to 5 Amperes.
- \* MIL-DTL-83731/22 - Switches, Toggle, Miniature, Lever Lock, Four Pole, Unsealed, Logic Load to 5 Amperes.
- MIL-DTL-83731/23 - Switches, Toggle, Double Pole, 4 Amperes, Low Level, Environmentally Sealed
- MIL-DTL-83731/24 - Switches, Toggle, Three Pole, 4 Amperes, Low Level, Environmentally Sealed
- MIL-DTL-83731/25 - Switches, Toggle, Four Pole, 4 Amperes, Low Level, Environmentally Sealed

## MS MILITARY STANDARDS

- MS18150 - Switch, Toggle, 2 Circuit, Sealed Toggle.
- MS18151 - Switch, Toggle, One Pole, Sealed Toggle.
- \* MS25068 - Switch, Toggle, Four Pole, Sealed Toggle.
- MS25098 - Switch, Toggle, One Pole, Sealed Toggle.
- MS25100 - Switch, Toggle, Two Pole, Sealed Toggle.
- MS25125 - Switch, Toggle, One Pole, Sealed Toggle, Lever Lock.
- MS25126 - Switch, Toggle, Two Pole, Sealed Toggle, Lever Lock.
- \* MS25127 - Switch, Toggle, Four Pole, Sealed Toggle, Lever Lock.
- MS25201 - Switch, Toggle, Two Pole, Sealed Toggle.
- MS27716 - Switch, Toggle, Miniature, Single Pole, Unsealed.
- MS27717 - Switch, Toggle, Miniature, Double Pole, Unsealed.
- MS27718 - Switch, Toggle, Miniature, Single Pole, Toggle Seal.
- MS27719 - Switch, Toggle, Miniature, Double Pole, Toggle Seal.
- MS27720 - Switch, Toggle, Miniature, Single Pole, Toggle Seal, Lever Lock.
- MS27721 - Switch, Toggle, Miniature, Double Pole, Toggle Seal, Lever Lock.
- MS27753 - Switch, Toggle, Miniature, Double Pole, Toggle Seal.
- MS27754 - Switch, Toggle, Miniature, Double Pole, Toggle Seal, Lever Lock.
- MS27790 - Switch, Toggle, Miniature, Double Pole, Unsealed.
- MS35058 - Switch, Toggle, One Pole, Sealed Toggle.
- \* MS35059 - Switch, Toggle, Two Pole, Sealed Toggle.
- \* MS75028 - Switch, Toggle, One Pole, Unsealed.
- \* MS75075 - Switch, Toggle, Two Pole, Unsealed.

\*Inactive for new design.

MIL-DTL-83731C  
SUPPLEMENT 1TABLE I. Application information.

MIL-DTL-83731/	Contact form and enclosure design <u>1/</u>	Size of mounting bushing	Type of termination <u>2/</u>	Highest electrical resistive rating (amperes)	Life (cycles)		Low level contact testing (cycles)
					Logic level	Resistive level	
9	LS, PS, and TFS Single pole	.250	SL and PC	5 A at 28 V dc	10,000	10,000	N/A
10	LS, PS, and TFS Double pole	.250	SL and PC	5 A at 28 V dc	10,000	10,000	N/A
11	LL and TFS Single pole	.250	SL and PC	5 A at 28 V dc	10,000	10,000	N/A
12	LL and TFS Double pole	.250	SL and PC	5 A at 28 V dc	10,000	10,000	N/A
13	LS and TFS Single pole	.240 PCB mount	RAV and PC	5 A at 28 V dc	10,000	10,000	N/A
14	LS and TFS Double pole	.240 PCB mount	RAV and PC	5 A at 28 V dc	10,000	10,000	N/A
15	LS and TFS Single pole	.240 PCB mount	RAH and PC	5 A at 28 V dc	10,000	10,000	N/A
16	LS and TFS Double pole	.240 PCB mount	RAH and PC	5 A at 28 V dc	10,000	10,000	N/A
19	LL, LS, and TFS 1, 2, and 4 poles	.250	SL and PC	3 A at 28 V dc	N/A	10,000	Yes 20,000
20	LL, LS, and TFS 1, 2, and 4 poles	.250	RA and PC	Low level .4 A at 20 V dc	N/A	N/A	Yes 20,000
21	LS, PS, and TFS Four pole	.250	SL and PC	Logic load 5 A at 28 V dc	10,000	10,000	N/A
22	LL and TFS Four pole	.250	SL and PC	Logic load 5 A at 28 V dc	10,000	10,000	N/A
23	LS and LL Double Pole	.468	SL and PC	Low Level 4A at 28 V dc	20,000	10,000	Yes 20,000
24	LS and LL Three Pole	.468	SL and PC	Low Level 4A at 28 V dc	20,000	10,000	Yes 20,000
25	LS and LL Four Pole	.468	SL and PC	Low Level 4A at 28 V dc	20,000	10,000	Yes 20,000

1/ Enclosure design types have been abbreviated as follows: Lever seal = LS, panel seal = PS, terminal flux seal = TFS, and lever lock = LL.

2/ Termination types have been abbreviated as follows: Solder lug = SL, printed circuit = PC, right angle = RA, right angle vertical = RAV, right angle horizontal = RAH, and right angle horizontal and vertical = RAH/V.

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

Preparing Activity  
DLA - CC

(Project 5930-2010-033)

Review activities:  
Army - AR, AV, MI  
Navy - EC, MC

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/>