

MILITARY - ENVIRONMENTALLY SEALED SWITCHES

Series - 8500, 8501, 8502

MIL-S-3950 Toggle Switches

FEATURES

- Environmentally sealed
- 1, 2 and 4 pole circuitry
- 2 & 3 position with maintained and momentary action
- Molded-in terminal inserts and terminal numbers

SPECIFICATIONS

- Environmentally sealed per MILS-3950
- MS approved and QPL'd per MILS-3950
- Thermoset molding materials meet flame retardant requirements
- Bushing: 15/32" - 32 thread
- Temperature Range: -85°F to +160°F (-65°C to +71°C)
- Life: 20,000 operations at rated load
40,000 operations mechanical life

CURRENT RATINGS

No. of Poles	Catalog Number	Type of Operation	28VDC			115 VAC 60 or 400Hz		
			Lamp Load	Resistive Load	Inductive Load	Lamp Load	Resistive Load	Inductive Load
1	8500	Maintained	5	20	15	3	15	10
		Momentary	4	15	10	2	15	7
2	8501	Maintained	7	20	15	4	15	15
		Momentary	5	18	10	2	11	8
4	8502	Maintained	5	20	12	4	15	15
		Momentary	4	18	10	2	11	8

Minimum Rating: "Intermediate Current" per MILS-3950

STANDARD LEVER SELECTION TABLE



8500



8501



8502

CIRCUIT WITH LEVER IN . . .			ONE POLE		TWO POLE		FOUR POLE	
Up Position	Center Position	Down Position (Keyway)	MS Part Number	Catalog Number	MS Part Number	Catalog Number	MS Part Number	Catalog Number
			MS24523-21	8500K1	MS24524-21	8501K1	MS24525-21	8502K1
ON	OFF	ON	-22	K9	-22	K9	-22	K9
ON	NONE	OFF	-23	K4	-23	K4	-23	K4
ON	NONE	ON	-24	K6	-24	K6	-24	K6
ON	OFF	NONE	-25	K8	-25	K8	-25	K8
ON	OFF*	NONE	-25	K8	-25	K8	-25	K8
ON	NONE	ON*	MS24523-26	8500K5	MS24524-26	8501K5	MS24525-26	8502K5
* ON	OFF	ON*	-27	K2	-27	K2	-27	K2
NONE	OFF	ON*	-28	K7	-28	K7	-28	K7
ON	NONE	OFF*	-29	K10	-29	K10	-29	K10
OFF	NONE	ON*	-30	K11	-30	K11	-30	K11
ON	OFF	ON*	MS24523-31	8500K3	MS24524-31	8501K3	MS24525-31	8502K3
* ON	ON	NONE	-32	K12	-32	K12	-32	K12
ON	ON	NONE	-33	K13	-33	K13	-33	K13
ON	ON	ON	—	—	MS27407-1	8501K14	MS27406-1	8502K15
ON	ON	ON*	—	—	-2	K15	-2	K16
* ON	ON	ON*	—	—	-3	K16	-3	K17
ON	ON	ON	—	—	-4	K17	—	—
ON	ON	ON*	—	—	-5	K18	—	—
* ON	ON	ON*	—	—	-6	K19	—	—

* Momentary contact.

See page A71 for circuit diagrams.

SWITCH GUARDS & SHIELDS

Switch Guard Application Table

Switch Catalog Number ^①	Switch Guard Code Number	Switch Catalog Number ^①	Switch Guard Code Number
8571K8-16, -20 K9-16, -20 K10-16, -20 K11-16, -20 K12-16, -20	11, 16 10, 12, 16, 21, 25 10, 11, 16, 21, 25 10, 11, 16, 21, 25 16	8520K1 K4 K9 8521K1 K4	7, 9, 13, 14, 15, 16, 18, 19, 22, 23, 26-29 10, 11, 15, 16, 20, 21, 24, 25 10, 12, 15, 16, 21, 25 7, 9, 13, 14, 15, 16, 18, 19, 22, 23 10, 11, 15, 16, 20, 21, 24, 25
8571K13-16, -20 K17-16, -20 K18-16, -20 K19-16, -20 8572K1-16, -20	13, 16, 19, 23 7, 9, 13, 16, 18, 19, 22, 23, 26-29 13, 14, 16, 18, 19, 22, 26-29 13, 14, 16, 18, 19, 22, 26-29 7, 9, 13, 14, 16, 18, 19, 22, 23, 26-29	8521K9 8522K1 K4 K9 8526K2	10, 12, 15, 16, 20, 21, 24, 25 7, 9, 13, 14, 15, 16, 18, 19, 22, 23, 26-29 10, 11, 15, 16, 20, 21, 24, 25 10, 12, 15, 16, 21, 25 13, 14, 15, 16, 18, 19, 22, 26-29
8572K2-16, -20 K3-16, -20 K4-16, -20 K5-16, -20 K6-16, -20	13, 14, 16, 18, 19, 22, 26-29 13, 14, 16, 20, 21, 24, 25 10, 11, 16, 20, 21, 24, 25 10, 11, 16, 21, 25 13, 16, 19, 23, 26-29	8526K3 K5 8527K2 K3 K5	13, 14, 15, 16, 18, 19, 22, 26-29 10, 11, 15, 16, 21, 25 13, 14, 15, 16, 18, 19, 22, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29 10, 11, 15, 16, 21, 25
8572K7-16, -20 K8-16, -20 K9-16, -20 K10-16, -20 K11-16, -20	7, 9, 13, 16 11, 16 10, 12, 16, 21, 25 10, 11, 16, 21, 25 10, 11, 16, 21, 25	8528K2 K3 K5 8530K1, K31, K91 K2, K32, K92	13, 14, 15, 16, 18, 19, 22, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29 10, 11, 15, 16, 21, 25 7, 9, 13, 14, 15, 16, 18, 19, 22, 23, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29
8572K12-16, -20 K13-16, -20 K15-16, -20 K16-16, -20 K17-16, -20	16 13, 16, 19, 23 7, 9, 13, 16, 18, 19, 22, 23, 26-29 13, 14, 16, 18, 19, 22, 26-29 13, 14, 16, 18, 19, 22, 26-29	8530K3, K33, K93 K4, K34, K94 K5, K35, K95 K6, K36, K96 K7, K37, K97	13, 14, 15, 16, 18, 19, 22, 26-29 10, 11, 15, 16, 20, 21, 24, 25 10, 11, 15, 16, 21, 25 13, 15, 16, 19, 23, 26-29 7, 9, 13, 15, 16
8510K1 K2 K3 K4 K5	7, 9, 13, 14, 15, 16, 18, 19, 22, 23, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29 10, 11, 15, 16, 20, 21, 24, 25 10, 11, 16, 21, 25	8530K8, K38, K98 K9, K39, K99 K10, K310, K910 K11, K311, K911 K12, K312, K912	11, 15, 16 10, 12, 15, 16, 21, 25 10, 11, 15, 16, 21, 25 10, 11, 15, 16, 21, 25 15, 16
8510K6 K7 K8 K9 K10	13, 15, 16, 18, 23, 26-29 7, 9, 13, 15, 16 11, 15, 16 10, 12, 15, 16, 21, 25 10, 11, 15, 16, 21, 25	8530K13, K313, K913 8531K1, K31, K91 K2, K32, K92 K3, K33, K93 K4, K34, K94	13, 15, 16, 19, 23 7, 9, 13, 14, 15, 18, 19, 22, 23, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29 10, 11, 15, 16, 20, 21, 24, 25
8510K11 K12 K13 8511K1 K2	10, 11, 15, 16, 21, 25 15, 16 13, 15, 16, 19, 23 7, 9, 13, 14, 15, 16, 18, 19, 22, 23, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29	8531K5, K35, K95 K6, K36, K96 K7, K37, K97 K8, K38, K98 K9, K39, K99	10, 11, 15, 16, 21, 25 13, 15, 16, 19, 23, 26-29 7, 9, 13, 15, 16 11, 15, 16 10, 12, 15, 16, 21, 25
8511K3 K4 K5 K6 K7	13, 14, 15, 16, 18, 19, 22, 26-29 10, 11, 15, 16, 20, 21, 24, 25 10, 11, 15, 16, 21, 25 13, 15, 16, 19, 23, 26-29 7, 9, 13, 15, 16	8531K10, K310, K910 K11, K311, K911 K12, K312, K912 K13, K313, K913 K14, K314, K914	10, 11, 15, 16, 21, 25 10, 11, 15, 16, 21, 25 15, 16 13, 15, 16, 19, 23 7, 9, 13, 15, 16, 18, 19, 22, 23, 26-29
8511K8 K9 K10 K11 K12	11, 15, 16 10, 12, 15, 16, 21, 25 10, 11, 15, 16, 21, 25 10, 11, 15, 16, 21, 25 15, 16	8531K15, K315, K915 K16, K316, K916 K17, K317, K917 K18, K318, K918 K19, K319, K919	13, 14, 15, 16, 18, 19, 22, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29 7, 9, 13, 15, 16, 18, 19, 22, 23, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29
8511K13 K14 K15 K16 8512K1	13, 15, 16, 18, 23 7, 9, 13, 15, 16, 18, 19, 22, 23, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29 7, 9, 13, 14, 15, 16, 18, 19, 22, 23, 26-29	8532K1, K31, K91 K2, K32, K92 K3, K33, K93 K4, K34, K94 K5, K35, K95	7, 9, 13, 14, 15, 16, 18, 19, 22, 23, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29 10, 11, 15, 16, 20, 21, 24, 25 10, 11, 15, 16, 21, 25
8512K2 K3 K4 K5 K6	13, 14, 15, 16, 18, 19, 22, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29 10, 11, 15, 16, 20, 21, 24, 25 10, 11, 15, 16, 21, 25 13, 15, 16, 19, 23, 26-29	8532K6, K36, K96 K7, K37, K97 K8, K38, K98 K9, K39, K99 K10, K310, K910	13, 15, 16, 19, 23, 26-29 7, 9, 13, 15, 16 11, 15, 16 10, 12, 15, 16, 21, 25 10, 11, 15, 16, 21, 25
8512K7 K8 K9 K10 K11 8512K12 K13 K15 K16 K17	7, 9, 13, 15, 16 11, 15, 16 10, 12, 15, 16, 21, 25 10, 11, 15, 16, 21, 25 10, 11, 15, 16, 21, 25 15, 16 13, 15, 16, 19, 23 7, 9, 13, 15, 16, 18, 19, 22, 23, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29	8532K11, K311, K911 K12, K312, K912 K13, K313, K913 K15, K315, K915 K16, K316, K916 8532K17, K317, K917	10, 11, 15, 16, 21, 25 15, 16 13, 15, 16, 19, 23 7, 9, 13, 15, 16, 18, 19, 22, 23, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29 13, 14, 15, 16, 18, 19, 22, 26-29

① Listing covers only those switches that can be used with a switch guard.