

INDUSTRIAL—ENVIRONMENTALLY SEALED SWITCHES

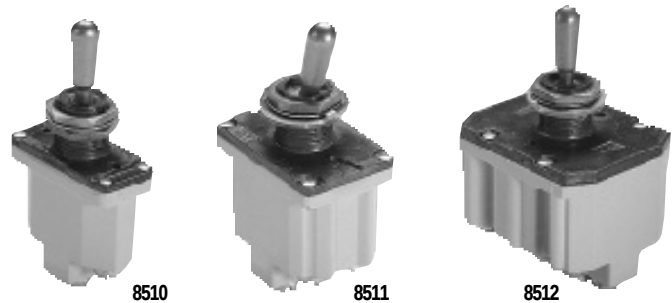
Series—8510, 8511, 8512

Environmentally Sealed Toggle Switches

FEATURES	SPECIFICATIONS	No. of Poles	Catalog Number	Type of Operation	CURRENT RATINGS					
					28VDC			115VAC 60 or 400Hz		
					Lamp Load	Resistive Load	Inductive Load	Lamp Load	Resistive Load	Inductive Load
- Completely sealed against dust, moisture, and other contaminants 1, 2 and 4 pole circuitry - One hole mounting for easy installation - Multi-circuits offered 2 & 3 position with maintained and momentary action - Molded-in terminal inserts - Molded-in terminal numbers - See 8520-8528 for UL recognized and CSA certified version on page 13.	- Watertight seal per MIL-STD-108E exceeds IP66/67 - Thermoset molding materials meet flame retardant requirements - Temperature Range: -50°F to +150°F (-46°C to +66°C) - Life: 20,000 operations at rated load - Bushing: 15/32" - 32 thread	1	8510	Maintained Momentary	5 4	20 15	15 10	3 2	15 15	10 7
		2	8511	Maintained Momentary	7 5	20 18	15 10	4 2	15 11	15 8
		4	8512	Maintained Momentary	5 4	20 18	12 10	4 2	15 11	15 8

SELECTION TABLE

FLUSH TERMINAL SCREWS



CIRCUIT WITH LEVER IN...			ONE POLE	TWO POLE	FOUR POLE
Up Position 	Center Position 	Down Position (Keyway) 	Catalog Number	Catalog Number	Catalog Number
ON	OFF	ON	8510K1	8511K1	8512K1
ON	NONE	OFF	K9	K9	K9
ON	NONE	ON	K4	K4	K4
ON	OFF	NONE	K6	K6	K6
ON	OFF*	NONE	K8	K8	K8
ON	NONE	ON*	8510K5	8511K5	8512K5
ON	OFF	ON	K2	K2	K2
NONE	OFF	ON*	K7	K7	K7
ON	NONE	OFF*	K10	K10	K10
OFF	NONE	ON*	K11	K11	K11
ON	OFF	ON*	8510K3	8511K3	8512K3
*ON	ON	NONE	K12	K12	K12
ON	ON	NONE	K13	K13	K13
ON	ON	ON		8511K14	8512K15
ON	ON	ON*		K15	K16
ON	ON	ON		K16	K17

*Momentary contact.
See Page 73 for circuit diagrams.

INDUSTRIAL—ENVIRONMENTALLY SEALED SWITCHES

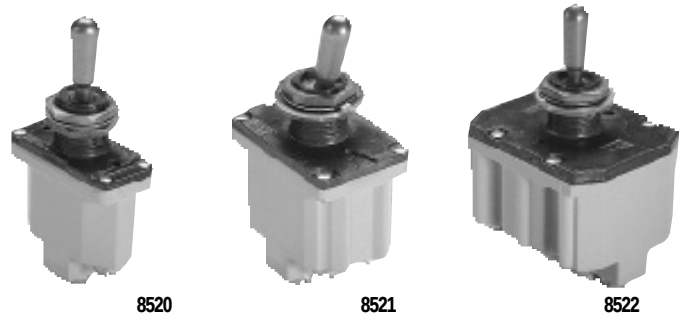
Series—8520-8522, 8526-8528

Environmentally Sealed Toggle Switches
UL Recognized and CSA Certified

FEATURES	SPECIFICATIONS	CURRENT RATINGS						
• Completely sealed against dust, moisture, and other contaminants • UL and CSA approved • One hole mounted bushing for easy installation • Multi-circuits offered • 2 & 3 position with maintained and momentary action • Molded-in terminal inserts and terminal numbers • 1, 2 and 4 pole circuitry	• Watertight seal per MIL-STD-108E exceeds IP66/67 • Thermoset molding materials meet flame retardant requirements • UL recognized and CSA certified per specifications listed below • Temperature Range: -50°F to +150°F (-46°C to +66°C) • Life: 20,000 operations at rated load 40,000 operations mechanical life 6,000 operations at HP ratings per UL and CSA requirements • Bushing: 15/32" - 32 thread			Maximum Horsepower				
		No. of Poles	Catalog Number	Amperes		1 Phase		3 Phase
				125V	250V	125VAC	250VAC	125/250VAC
		1	8520	18	9	1/4	1/2	—
		2	8521	18	9	1/2	1	—
		4	8522	18	9	1/2	1	1
		1,2,4	8526 thru 8528	18	9	—	—	—

SELECTION TABLE

FLUSH TERMINAL SCREWS



CIRCUIT WITH LEVER IN...			ONE POLE	TWO POLE	FOUR POLE
Up Position	Center Position	Down Position (Keyway)	Catalog Number	Catalog Number	Catalog Number
ON	OFF	ON	8520K1	8521K1	8522K1
ON	NONE	OFF	K9	K9	K9
ON	NONE	ON	K4	K4	K4
ON	NONE	ON*	8526K5	8527K5	8528K5
ON	OFF	ON	K2	K2	K2
ON	OFF	ON*	8526K3	8527K3	8528K3

*Momentary contact.
See Page 73 for circuit diagrams.

UL & CSA Approval Numbers

UL — Where devices are UL recognized, recognition is listed under file number E15346; Guide card number is WOYR2.
CSA — Where devices are CSA certified; certification number is LR40068, class number 6241.

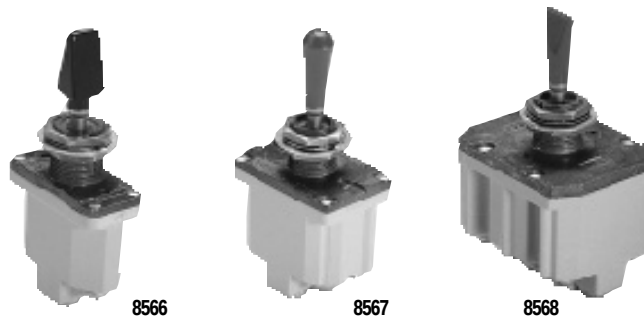
INDUSTRIAL—ENVIRONMENTALLY SEALED SWITCHES

Series—8566, 8567, 8568 Environmentally Sealed Designerline Toggle Switches

FEATURES	SPECIFICATIONS	No. of Poles	Catalog Number	Type of Operation	CURRENT RATINGS					
					28VDC			115VAC 60 or 400Hz		
- Completely sealed against dust, moisture, and other contaminants - Variety of lever styles and colors - One hole mounting for easy installation 2 & 3 position with maintained and momentary action 1, 2 and 4 pole circuitry - Molded-in terminal inserts and terminal numbers - Coded shaped levers for operator feel and cosmetic appearance	- Watertight seal per MIL-STD-108E exceeds IP 66/67 - Bushing: 15/32" - 32 thread - Temperature Range: -50°F to +150°F (-46°C to +66°C) - Life: 20,000 operations at rated load 40,000 operations mechanical life - Thermoset molding materials meet flame retardant requirements	1	8566	Maintained Momentary	Lamp Load	Resistive Load	Inductive Load	Lamp Load	Resistive Load	Inductive Load
					5	20	15	3	15	10
		2	8567	Maintained Momentary	4	15	10	2	15	7
					7	20	15	4	15	15
		4	8568	Maintained Momentary	5	20	12	4	15	15
					4	18	10	2	11	8

SELECTION TABLE

FLUSH SCREW TERMINALS



CIRCUIT WITH LEVER IN...			ONE POLE	TWO POLE	FOUR POLE	LEVER SUFFIXES ^①		
Up Position	Center Position	Down Position (Keyway)	Catalog Number	Catalog Number	Catalog Number	Shape ^② Suffix	Color Letter	Suffix Number
ON	OFF	ON	8566K1	8567K1	8568K1	All	White	21
ON	NONE	OFF	K9	K9	K9			
ON	NONE	ON	K4	K4	K4			
ON	OFF	NONE	K6	K6	K6			
ON	OFF*	NONE	K8	K8	K8	All	Grey	23
ON	OFF	ON	8566K5	8567K5	8568K5			
NONE	OFF	ON*	K2	K2	K2			
ON	NONE	OFF*	K7	K7	K7			
ON	NONE	OFF*	K10	K10	K10	All	Red	22
OFF	NONE	ON*	K11	K11	K11			
ON	OFF	ON	8566K3	8567K3	8568K3			
*ON	ON	NONE	K12	K12	K12			
ON	ON	NONE	K13	K13	K13	All	Yellow	25
ON	ON	ON*	8567K14	8568K15	8568K15			
ON	ON	ON	K15	K16	K16			
				K17	K17			

*Momentary contact.

See Page 73 for circuit diagrams.

① A complete catalog number consists of a basic switch number followed by a lever shape suffix letter and a two-digit lever color suffix number. Example: 8566K1C21.

② Select lever shape suffix letter from Page 18.



ECONOSWITCH—ENVIRONMENTALLY SEALED SWITCHES

Series—8530, 8531, 8532

Econoswitch Sealed Toggle Switches

TOGGLE
SWITCHES

FEATURES

- Environmentally sealed
- 1, 2 and 4 pole Circuitry
- One hole mounting for easy installation
- Multi-circuits
- 2 & 3 position with maintained and momentary action
- Three types of termination offered as standard

SPECIFICATIONS

- Watertight seal per MIL-STD-108E exceeds IP 66/67
- UL recognized and CSA certified
- Three standard types of terminals
 - screw 6-32 UNC-2A
 - solder lug .125 [3,17] dia. hole
 - spade .250 [6,35] x .032 [0,81] thick
- Life: 50,000 operations at rated load.
100,000 operations mechanical life.
- Temperature Range: -50°F to +150°F
(-46°C to +66°C)

CURRENT RATINGS

No. of Poles	Catalog Number	Type of Operation	28VDC			115VAC 60 or 400Hz		
			Lamp Load	Resistive Load	Inductive Load	Lamp Load	Resistive Load	Inductive Load
1	8530	Maintained Momentary	5 4	20 15	15 10	3 2	15 15	10 7
2	8531	Maintained Momentary	7 5	20 18	15 10	4 2	15 11	15 8
4	8532	Maintained Momentary	5 4	20 18	12 10	4 2	15 11	15 8

For the UL/CSA ratings see page 72.

STANDARD LEVER SELECTION TABLE

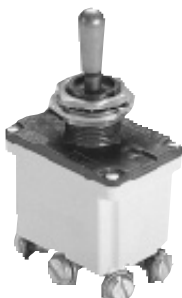
CIRCUIT WITH LEVER IN...

CATALOG NUMBER

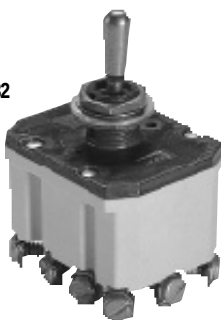
8530



8531



8532



Up Position	Center Position	Down Position (Keyway)	Screw Terminals	Solder Lug Terminals	Spade Terminals
ONE POLE					
ON	OFF	ON	8530K1	8530K91	8530K31
ON	NONE	OFF	K9	K99	K39
ON	NONE	ON	K4	K94	K34
ON	OFF	NONE	K6	K96	K36
ON	OFF*	NONE	K8	K98	K38
ON	NONE	ON*	8530K5	8530K95	8530K35
* ON	OFF	ON*	K2	K92	K32
NONE	OFF	ON*	K7	K97	K37
ON	NONE	OFF*	K10	K910	K310
OFF	NONE	ON*	K11	K911	K311
ON	OFF	ON*	8530K3	8530K93	8530K33
* ON	ON	NONE	K12	K912	K312
ON	ON	NONE	K13	K913	K313
TWO POLE					
ON	OFF	ON	8531K1	8531K91	8531K31
ON	NONE	OFF	K9	K99	K39
ON	NONE	ON	K4	K94	K34
ON	OFF	NONE	K6	K96	K36
ON	OFF*	NONE	K8	K98	K38
ON	NONE	ON*	8531K5	8531K95	8531K35
* ON	OFF	ON*	K2	K92	K32
NONE	OFF	ON*	K7	K97	K37
ON	NONE	OFF*	K10	K910	K310
OFF	NONE	ON*	K11	K911	K311
ON	OFF	ON*	8531K3	8531K93	8531K33
* ON	ON	NONE	K12	K912	K312
ON	ON	NONE	K13	K913	K313
ON	ON	ON	K14	K914	K314
ON	ON	ON*	K15	K915	K315
* ON	ON	ON*	8531K16	8531K916	8531K316
ON	ON	ON	K17	K917	K317
ON	ON	ON*	K18	K918	K318
* ON	ON	ON*	K19	K919	K319
FOUR POLE					
ON	OFF	ON	8532K1	8532K91	8532K31
ON	NONE	OFF	K9	K99	K39
ON	NONE	ON	K4	K94	K34
ON	OFF	NONE	K6	K96	K36
ON	OFF*	NONE	K8	K98	K38
ON	NONE	ON*	8532K5	8532K95	8532K35
* ON	OFF	ON*	K2	K92	K32
NONE	OFF	ON*	K7	K97	K37
ON	NONE	OFF*	K10	K910	K310
OFF	NONE	ON*	K11	K911	K311
ON	OFF	ON*	8532K3	8532K93	8532K33
* ON	ON	NONE	K12	K912	K312
ON	ON	NONE	K13	K913	K313
ON	ON	ON	K15	K915	K315
ON	ON	ON*	K16	K916	K316
* ON	ON	ON*	K17	K917	K317

* Momentary contact.

See Page 73 for circuit diagrams.

ECONOSWITCH—ENVIRONMENTALLY SEALED SWITCHES

Series—8536, 8537, 8538

Econoswitch Sealed Leverlock Toggle Switches

FEATURES	SPECIFICATIONS	CURRENT RATINGS								
		No. of Poles	Catalog Number	Type of Operation	28VDC			115VAC 60 or 400Hz		
					Lamp Load	Resistive Load	Inductive Load	Lamp Load	Resistive Load	Inductive Load
- Environmentally sealed 1, 2, and 4 pole circuitry - Locking actuator for safety - One hole mounting for easy installation - Over 25 standard locking configurations to choose from 2 & 3 position with maintained and momentary action - Three types of termination offered as standard	- Watertight seal per MIL-STD-108E exceeds IP66/67 - UL recognized and CSA certified - Temperature range: -50°F to +150°F (-46°C to +66°C) - Life: 50,000 operations at rated load 100,000 operations mechanical life - Bushing: 15/32" - 32 thread	1	8536	Maintained Momentary	5 4	20 15	15 10	3 2	15 15	10 7
		2	8537	Maintained Momentary	7 5	20 18	15 10	4 2	15 11	15 8
		4	8538	Maintained Momentary	5 4	20 18	12 10	4 2	15 11	15 8

For the UL/CSA ratings see page 72.

LEVER LOCK SELECTION TABLE

CIRCUIT WITH LEVER IN...			CATALOG NUMBER				
				Screw Terminals	Solder Lug Terminals	Spade Terminals	Available Locking Configurations
	ONE POLE						
	ON	OFF	ON	8636K1 D	8536K91 D	8536K31 D	ALL
	ON	NONE	OFF	K9 D	K99 D	K39 D	D, F, G
	ON	NONE	ON	K4 D	K94 D	K34 D	D, F, G
	ON	OFF	NONE	K6 D	K96 D	K36 D	E, F, K, M
	ON	OFF*	NONE	K8 D	K98 D	K38 D	F
	ON	NONE	ON*	8536K5 D	853K95 D	8536K35 D	F
	ON	OFF	ON	K2 D	K92 D	K32 D	E, L, N
	NONE	OFF	ON*	K7 D	K97 D	K37 D	E
	ON	NONE	OFF*	K10 D	K910 D	K310 D	F
	OFF	NONE	ON*	K11 D	K911 D	K311 D	F
	ON	OFF	ON*	8536K3 D	8536K93 D	8536K33 D	E, F, K, L, M, N
*ON	ON	NONE	K12 D	K912 D	K312 D	E	
ON	ON	NONE	K13 D	K913 D	K313 D	E, F, K, M	
	TWO POLE						
	ON	OFF	ON	8537K1 D	8537K91 D	8537K31 D	ALL
	ON	NONE	OFF	K9 D	K99 D	K39 D	D, F, G
	ON	NONE	ON	K4 D	K94 D	K34 D	D, F, G
	ON	OFF	NONE	K6 D	K96 D	K36 D	E, F, K, M
	ON	OFF*	NONE	K8 D	K98 D	K38 D	F
	ON	NONE	ON*	8537K5 D	8537K95 D	8537K35 D	F
	ON	OFF	ON	K2 D	K92 D	K32 D	E, L, N
	NONE	OFF	ON*	K7 D	K97 D	K37 D	E
	ON	NONE	OFF*	K10 D	K910 D	K310 D	F
	OFF	NONE	ON*	K11 D	K911 D	K311 D	F
	ON	OFF	ON*	8537K3 D	8537K93 D	8537K33 D	E, F, K, L, M, N
*ON	ON	NONE	K12 D	K912 D	K312 D	E	
ON	ON	NONE	K13 D	K913 D	K313 D	E, F, K, M	
	FOUR POLE						
	ON	OFF	ON	8538K1 D	8538K91 D	8538K31 D	ALL
	ON	NONE	OFF	K9 D	K99 D	K39 D	D, F, G
	ON	NONE	ON	K4 D	K94 D	K34 D	D, F, G
	ON	OFF	NONE	K6 D	K96 D	K36 D	E, F, K, M
	ON	OFF*	NONE	K8 D	K98 D	K38 D	F
	ON	NONE	ON*	8538K5 D	8538K95 D	8538K35 D	F
	ON	OFF	ON	K2 D	K92 D	K32 D	E, L, N
	NONE	OFF	ON	K7 D	K97 D	K37 D	E
	ON	NONE	OFF*	K10 D	K910 D	K310 D	F
	OFF	NONE	ON*	K11 D	K911 D	K311 D	F
	ON	OFF	ON*	8538K3 D	8538K93 D	8538K33 D	E, F, K, L, M, N
*ON	ON	NONE	K12 D	K912 D	K312 D	E	
ON	ON	NONE	K13 D	K913 D	K313 D	E, F, K, M	
ON	ON	ON	8538K15 D	8538K915 D	8538K315 D	ALL	
ON	ON	ON*	K16 D	K916 D	K316 D	E, F, K, L, M, N	
ON	ON	ON	K17 D	K917 D	K317 D	E, L, N	

* Momentary contact.

D Complete part number requires this symbol to be replaced with a locking configuration letter—selected from Page 24.

Example: **8536K31** **Δ** **E** **8536K31E**

Basic Switch Locking Style

Complete

Part Number

See page 73 for circuit diagrams.

ECONOSWITCH—ENVIRONMENTALLY SEALED SWITCHES

Series—8533, 8534, 8535

Econoswitch Sealed Designerline Toggle Switches

FEATURES	SPECIFICATIONS	CURRENT RATINGS								
• Environmentally sealed • 1, 2, and 4 pole circuitry • One hole mounting for easy installation • Variety of lever styles and colors • Coded shaped levers for operator feel and cosmetic appearance. • 2 & 3 position with maintained and momentary action • Three types of termination offered as standard • Also available with toggle and lever lock actuators. For details see page 19 for toggles and 22 for lever locks.	• Watertight seal per MIL-STD-108E exceeds IP 66/67 • UL recognized and CSA certified • Bushing: 15/32" - 32 thread • Temperature range: -50°F to +150°F (-46°C to +66°C) • Life: 50,000 operations at rated load 100,000 operations mechanical life	No. of Poles	Catalog Number	Type of Operation	28VDC			115VAC 60 or 400Hz		
					Lamp Load	Resistive Load	Inductive Load	Lamp Load	Resistive Load	Inductive Load
		1	8533	Maintained Momentary	5 4	20 15	15 10	3 2	15 15	10 7
		2	8534	Maintained Momentary	7 5	20 18	15 10	4 2	15 11	15 8
		4	8535	Maintained Momentary	5 4	20 18	12 10	4 2	15 11	15 8
		For the UL/CSA ratings see page 72.								

SELECTION TABLE

CIRCUIT WITH LEVER IN...			CATALOG NUMBER						
Up Position	Center Position	Down Position (Keyway)	Screw Terminals ①	Solder Lug Terminals ①	Spade Terminals ①	Shape Suffix ②	Color Letter	Suffix Number	
ONE POLE									
ON	OFF	ON	8533K1	8533K91	8533K31				
ON	NONE	OFF	K9	K99	K39				
ON	NONE	ON	K4	K94	K34	All	White	21	
ON	OFF	NONE	K6	K96	K36		Grey	23	
ON	OFF*	NONE	K8	K98	K38				
ON	NONE	ON*	8533K5	8533K95	8533K35	All	Red	22	
ON	OFF	ON	K2	K92	K32		Green	24	
NONE	OFF	ON*	K7	K97	K37				
ON	NONE	OFF*	K10	K910	K310		Yellow	25	
OFF	NONE	ON*	K11	K911	K311	All	Black	27	
ON	OFF	ON*	8533K3	8533K93	8533K33		Blue	26	
*ON	ON	NONE	K12	K912	K312				
ON	ON	NONE	K13	K913	K313				
TWO POLE									
ON	OFF	ON	8534K1	8534K91	8534K31				
ON	NONE	OFF	K9	K99	K39				
ON	NONE	ON	K4	K94	K34	All	White	21	
ON	OFF	NONE	K6	K96	K36				
ON	OFF*	NONE	K8	K98	K38				
ON	NONE	ON*	8534K5	8534K95	8534K35		Grey	23	
ON	OFF	ON	K2	K92	K32				
NONE	OFF	ON*	K7	K97	K37	All	Red	22	
ON	NONE	OFF*	K10	K910	K310		Green	24	
OFF	NONE	ON*	K11	K911	K311				
ON	OFF	ON*	8534K3	8534K93	8534K33		Yellow	25	
*ON	ON	NONE	K12	K912	K312	All	Black	27	
ON	ON	NONE	K13	K913	K313		Blue	26	
ON	ON	ON	8534K14	8534K914	8534K314				
ON	ON	ON*	K15	K915	K315				
ON	ON	ON	K16	K916	K316				
FOUR POLE									
ON	OFF	ON	8535K1	8535K91	8535K31				
ON	NONE	OFF	K9	K99	K39				
ON	NONE	ON	K4	K94	K34	All	White	21	
ON	OFF	NONE	K6	K96	K36		Grey	23	
ON	OFF*	NONE	K8	K98	K38				
ON	NONE	ON*	8535K5	8535K95	8535K35				
ON	OFF	ON	K2	K92	K32	All	Red	22	
NONE	OFF	ON*	K7	K97	K37				
ON	NONE	OFF*	K10	K910	K310		Green	24	
OFF	NONE	ON*	K11	K911	K311				
ON	OFF	ON*	8535K3	8535K93	8535K33		Yellow	25	
*ON	ON	NONE	K12	K912	K312	All	Black	27	
ON	ON	NONE	K13	K913	K313		Blue	26	
ON	ON	ON	8535K15	8535K915	8535K315				
ON	ON	ON*	K16	K916	K316				
ON	ON	ON	K17	K917	K317				

* Momentary contact.

① A complete catalog number consists of a basic switch number followed by a lever shape suffix letter and a two-digit lever color suffix number. Example: 8533K91E27

See page 73 for circuit diagrams.

② Select lever shape suffix letter from Page 27.

MILITARY—ENVIRONMENTALLY SEALED SWITCHES

Series—8500, 8501, 8502

MIL-S-3950 Toggle Switches

FEATURES	SPECIFICATIONS	No. of Poles	Catalog Number	Type of Operation	CURRENT RATINGS					
					28VDC			115VAC 60 or 400Hz		
					Lamp Load	Resistive Load	Inductive Load	Lamp Load	Resistive Load	Inductive Load
- Environmentally sealed 1, 2, and 4 pole circuitry 2 & 3 position with maintained and momentary action - Molded-in terminal inserts and terminal numbers - Environmentally sealed per MIL-S-3950	- MS approved and QPL'd per MIL-S-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	1	8500	Maintained Momentary	5 4	20 15	15 10	3 2	15 15	10 7
		2	8501	Maintained Momentary	7 5	20 18	15 10	4 2	15 11	15 8
		4	8502	Maintained Momentary	5 4	20 18	12 10	4 2	15 11	15 8
		Minimum Rating: "Intermediate Current" per MIL-S-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
ON	OFF	ON*	MS24523-21	8500K1	MS24524-21	8501K1	MS24525-21	8502K1
ON	NONE	OFF	-22	K9	-22	K9	-22	K9
ON	NONE	ON	-23	K4	-23	K4	-23	K4
ON	OFF	NONE	-24	K6	-24	K6	-24	K6
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 73 for circuit diagrams.

MILITARY—ENVIRONMENTALLY SEALED SWITCHES

Series—8503, 8504, 8505

MIL-S-3950 Lever Lock Switches

FEATURES		SPECIFICATIONS		CURRENT RATINGS								
• Environmentally sealed • 1, 2, and 4 pole circuitry • 2 & 3 position with maintained and momentary action • Locking actuator for safety • Molded-in terminal inserts and terminal numbers	• Environmentally sealed per MIL-S-3950 • MS approved and QPL'd per MIL-S-3950 • Thermoset molding materials meet flame retardant requirements of • 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	No. of Poles	Catalog Number	Type of Operation	28VDC			115VAC 60 or 400Hz				
					Lamp Load	Resistive Load	Inductive Load	Lamp Load	Resistive Load	Inductive Load		
		1	8503	Maintained Momentary	5 4	20 15	15 10	3 2	15 15	10 7		
		2	8504	Maintained Momentary	7 5	20 18	15 10	4 2	15 11	15 8		
		4	8505	Maintained Momentary	5 4	20 18	12 10	4 2	15 11	15 8		
		Minimum Rating: "Intermediate Current" per MIL-S-3950										

Minimum Rating: "Intermediate Current" per MIL-S-3950

TOGGLE SWITCHES

LEVER LOCK SELECTION TABLE



CIRCUIT WITH LEVER IN...			ONE POLE		TWO POLE		FOUR POLE	
Up Position	Center Position	Down Position (Keyway)	Lever Lock Bushing Style	Flush Screw Terminals MS Part Number Catalog Number	Flush Screw Terminals MS Part Number Catalog Number	Flush Screw Terminals MS Part Number Catalog Number	Flush Screw Terminals MS Part Number Catalog Number	Flush Screw Terminals MS Part Number Catalog Number
ON→	←OFF→	←ON	A	MS24658-21A 8503K1	MS24659-21A 8504K1	MS24660-21A 8505K1		
ON	←OFF→	←ON	B	-21B K27	-21B K27	-21B K27		
ON→	←OFF→	←ON	D	-21D K5	-21D K5	-21D K5		
ON	←OFF→	ON	E	-21E K2	-21E K2	-21E K2		
ON→	OFF	ON	F	-21F K28	-21F K28	-21F K28		
ON	OFF	←ON	G	MS24658-21G 8503K3	MS24659-21G 8504K3	MS24660-21G 8505K3		
ON→	←OFF→	ON	H	-21H K29	-21H K29	-21H K29		
ON	←OFF→	←ON	J	-21J K30	-21J K30	-21J K30		
ON→	←OFF→	ON	K	-21K K31	-21K K31	-21K K31		
ON	←OFF→	ON	L	-21L K32	-21L K32	-21L K32		
ON→	←OFF	ON	M	MS24658-21M 8503K33	MS24659-21M 8504K33	MS24660-21M 8505K33		
ON	←OFF	ON	N	-21N K4	-21N K4	-21N K4		
ON	←OFF→	←ON	P	-21P K34	-21P K34	-21P K34		
ON→	NONE	←OFF	D	-22D K10	-22D K10	-22D K10		
ON→	NONE	OFF	F	-22F K35	-22F K35	-22F K35		
ON	NONE	←OFF	G	MS24658-22G 8503K9	MS24659-22G 8504K9	MS24660-22G 8505K9		
ON→	NONE	←ON	D	-23D K6	-23D K6	-23D K6		
ON→	NONE	ON	F	-23F K36	-23F K36	-23F K36		
ON	NONE	←ON	G	-23G K7	-23G K7	-23G K7		
ON	←OFF	NONE	E	-24E K16	-24E K16	-24E K16		
ON→	OFF	NONE	F	MS24658-24F 8503K37	MS24659-24F 8504K37	MS24660-24F 8505K37		
ON→	←OFF→	NONE	K	-24K K38	-24K K38	-24K K38		
ON→	←OFF	NONE	M	-24M K11	-24M K11	-24M K11		
ON→	OFF*	NONE	F	-25F K22	-25F K22	-25F K22		
ON→	NONE	ON*	F	-26F K20	-26F K20	-26F K20		
ON	←OFF→	ON	E	MS24658-27E 8503K12	MS24659-27E 8504K12	MS24660-27E 8505K12		
ON	←OFF→	ON	L	-27L K39	-27L K39	-27L K39		
ON	←OFF	ON	N	-27N K14	-27N K14	-27N K14		
NONE	←OFF→	ON*	E	-28E K15	-28E K15	-28E K15		
ON→	NONE	OFF*	F	-29F K21	-29F K21	-29F K21		
OFF→	NONE	ON*	F	MS24658-30F 8503K19	MS24659-30F 8504K19	MS24660-30F 8505K19		
ON	←OFF→	ON*	E	-31E K18	-31E K18	-31E K18		
ON→	←OFF	ON*	F	-31F K40	-31F K40	-31F K40		
ON→	←OFF→	ON*	K	-31K K41	-31K K41	-31K K41		
ON	←OFF→	ON*	L	-31L K13	-31L K13	-31L K13		

* Momentary contact.

→ Indicates direction against which lever is locked.

See page 73 for circuit diagrams.

① Reference bushing styles on Page 34.