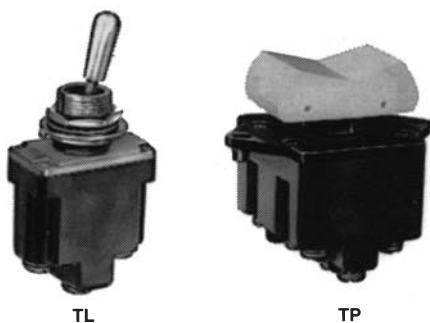


SERIES TL PRECISION TOGGLE SWITCHES



TL

TP

Toggle switches feature greater over-surface creepage and clearance distance; double silicon sealing (between cover and case as well as between bushing and toggle lever); integral terminals for stronger wiring connections; step construction for more space between terminals to reduce the possibility of shorting. Single hole bushing mounted. Meet MIL-S-3950 (Immersion) requirements. **Electrical Rating:** (†) Shown in rating table below. **Operating Temperature:** -85° to +160° F. **Contacts:** Silver cadmium oxide. **Toggle:** Standard; write for information and prices on pull-to-unlock types that prevent accidental toggle movement.

2-POSITION TOGGLE SWITCHES

No. of Poles	Mfr. No.	Military Number MS-	Rating †	Circuit with Toggle At	
				One Side	Other Side
1	1TL1-2	24523-22	1	Off	On
	1TL1-4	24523-29	1	Off*	On
	1TL1-6	24523-30	2	On*	Off
	1TL1-3	24523-23	1	On	On
2	1TL1-8	24523-26	2	On*	On
	2TL1-2	24524-22	3	Off	On
	2TL1-4	24524-29	4	Off*	On
	2TL1-6	24524-30	4	On*	Off
4	2TL1-3	24524-23	3	On	On
	2TL1-8	24524-26	4	On*	On
	4TL1-2	24525-22	5	Off	On
	4TL1-4	24525-29	6	Off*	On
4	4TL1-6	24525-30	6	On*	Off
	4TL1-3	24525-23	5	On	On
	4TL1-8	24525-26	6	On*	On

3-POSITION TOGGLE

No. of Poles	Mfr. No.	Military Number MS-	Rating †	Circuit with ‡ Toggle At		
				One Side	Center	Other Side
1	1TL1-1	24523-21	1	On	Off	On
	1TL1-5	24523-31	2	On*	Off	On
	1TL1-7	24523-27	2	On*	Off	On*
	1TL1-21	24523-24	1	None	Off	On
2	1TL1-31	24523-33	1	None	On	On
	1TL1-51	24523-32	2	None	On	On*
	1TL1-61	24523-28	2	On*	Off	None
	2TL1-1	24524-21	3	On	Off	On
2	2TL1-5	24524-31	4	On*	Off	On
	2TL1-7	24524-27	4	On*	Off	On*
	2TL1-21	24524-24	3	None	Off	On
	2TL1-31	24524-33	3	None	On	On
4	2TL1-51	24524-32	4	None	On	On*
	2TL1-61	24524-28	4	On*	Off	None
	2TL1-10	27407-4	3	On	On	On
	2TL1-50	27407-5	4	On*	On	On
4	2TL1-70	27407-6	4	On*	On	On*
	4TL1-1	24525-21	5	On	Off	On
	4TL1-5	24525-31	6	On*	Off	On
	4TL1-7	24525-27	6	On*	Off	On*
4	4TL1-21	24525-24	5	None	On	On
	4TL1-31	24525-33	5	None	On	On
	4TL1-51	24525-32	6	None	On	On*
	4TL1-61	24525-28	6	On	Off	None
4	4TL1-50	27406-2	6	On*	On	On
	4TL1-12	27406-1	5	On	On	On
	4TL1-72	27406-3	6	On*	On	On*

*Momentary positions; all others are maintained positions. †See rating chart. ‡"None" indicates toggle lever is blocked from these positions, leaving only two usable positions.

SERIES TP ROCKER-ACTUATED SWITCHES

Buttons: Transparent button accepts under-the-surface legend insert; Translucent button is ideal for edge lighting. **Mounting:** Flush Panel for low profile and edge lighting; Above panel for distinctive appearance, 3-hole mtg. in .935" × 1.510" hole.

2-POSITION ROCKER BUTTON SWITCHES

No. of Poles	Rating †	Circuit with Button At	Mfr. No.			
			Flush Panel		Above Panel	
			Trans-lucent	Trans-parent	Trans-lucent	Trans-parent
1	1	Off	1TP201-2	1TP12-2	1TP216-2	1TP4-2
	2	Off*	1TP201-4	.....	.....	.....
	2	On*	1TP201-6	1TP12-6	1TP216-3	1TP4-6
	1	On	1TP201-3	1TP12-3	1TP216-8	1TP4-3
2	2	On*	1TP201-8	1TP12-8	1TP216-2	.....
	3	Off	2TP201-2	2TP12-2	2TP216-2	2TP4-2
	4	Off*	.....	.....	.....	2TP4-4
	4	On*	.....	.....	.....	2TP4-6
4	3	On	2TP201-3	2TP12-3	2TP216-3	2TP4-3
	4	On*	2TP201-8	2TP12-8	2TP216-8	2TP4-8
	5	Off	4TP201-2	4TP12-2	4TP216-4	.....
	6	Off*	4TP201-4	4TP12-4	4TP216-4	.....
4	6	On*	4TP201-6	.....	.....	.....
	5	On	4TP201-3	4TP12-3	4TP216-3	4TP4-3
	6	On	4TP201-8	4TP12-8	4TP216-8	.....

3-POSITION ROCKER BUTTON SWITCHES

1TP is 1-pole switch; 2TP, 2-pole; 4TP, 4-pole

Rating †	Circuit‡	Mfr. No.			
		Flush Panel		Above Panel	
		Trans-lucent	Trans-parent	Trans-lucent	Trans-parent
1	On-Off-On	1TP201-1	1TP12-1	1TP216-1	1TP4-1
2	On*-Off-On	1TP201-5	1TP12-5	1TP216-5	1TP4-5
2	On*-Off-On*	1TP201-7	1TP12-7	1TP216-7	1TP4-7
1	N-Off-On	1TP201-21	1TP12-21	.....	.....
1	N-On-On	1TP201-31	.....	.....	.....
3	On-Off-On	2TP201-1	2TP12-1	2TP216-1	2TP4-1
4	On*-Off-On	2TP201-5	2TP12-5	2TP216-5	2TP4-5
4	On*-Off-On*	2TP201-7	2TP12-7	2TP216-7	2TP4-7
3	N-Off-On	2TP201-21	2TP12-21	.....	.....
3	N-On-On	2TP201-31	.....	2TP216-31	2TP4-31
4	N-On-On*	2TP201-51	.....	2TP216-51	2TP4-51
4	On*-Off-On	.....	2TP12-61	.....	2TP4-61
3	On-On-On	2TP201-10	2TP12-10	2TP216-10	2TP4-10
4	On*-On-On	2TP201-50	.....	2TP216-50	2TP4-50
4	On*-On-On*	2TP201-70	2TP12-70	2TP216-70	2TP4-70
5	On-Off-On	4TP201-1	4TP12-1	4TP216-1	4TP4-1
6	On*-Off-On	4TP201-5	4TP12-5	4TP216-5	4TP4-5
6	On*-Off-On*	4TP201-7	4TP12-7	4TP216-7	4TP4-7
5	N-Off-On	4TP201-21	4TP12-21	4TP216-21	.....
5	N-On-On	4TP201-31	.....	4TP216-31	.....
6	N-On-On*	4TP201-51	.....	4TP216-51	.....
6	On*-Off-N	4TP201-61	4TP12-61	4TP216-61	.....
5	On-On§-On	4TP201-10	4TP12-10	4TP216-10	.....
6	On*-On§-On	4TP201-50	4TP12-50	4TP216-50	.....
6	On*-On§-On	4TP201-70	4TP12-70	4TP216-70	4TP4-70

*Momentary positions; all others are maintained positions. †See rating chart. ‡"N" indicates toggle lever is blocked from these positions, leaving only two usable positions. §Only two circuits are completed in this position; all other types complete 1 circuit per pole "on" position.

SERIES TL AND TP ELECTRICAL RATINGS†

All ratings in amperes.

Pin Ratings in amperes:									
Code †	28 Volts DC			115 VDC Res.	250 VDC Res.	115 VAC, 60 and 400 Hz			230 VAC Res.
	Ind.	Res.	Lamp			Ind.	Res.	Lamp	
1	15	20	5	0.75	0.5	10	15	3	6
2	10	15	4	0.75	0.5	7	15	2	6
3	15	20	7	0.75	0.5	15	15	4	6
4	10	18	5	0.75	0.5	8	11	2	6
5	12	20	5	0.75	0.5	15	15	4	6
6	10	18	4	0.75	0.5	8	11	2	6