

SEALED TOGGLE SWITCHES

LOW COST TOGGLE FOR WET & DUSTY ENVIRONMENTS

These toggle switches are rugged, high performance sealed switches designed for use under severe conditions found in heavy equipment, industrial control, marine and appliance applications. The T7 series is sealed to both IP68S and IP69K. OTTO's front panel seal is accomplished with an O-ring under the bat handle. However, now a secondary visible bushing seal is offered as an option.

T7 toggles are offered in single and double pole configurations. A choice of models are offered to handle power levels to 16 amps, 0.5HP and logic level electronic switching applications.

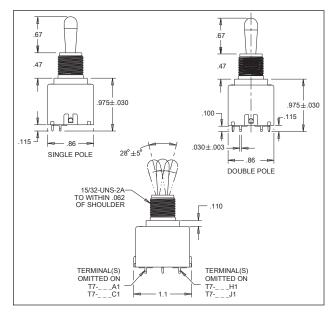
These toggles feature positive detent action for safe switching operation. In conjunction with the unique OTTO snap-action switch mechanism, the T7 offers non-teasible contact transfer.

High contact pressure and superior contact wiping action of the OTTO design makes the T7 an excellent choice for switching loads from logic level up to 16 amps.

Mounting hardware provided includes two hex nuts, one lockwasher and one keyway washer. An optional panel seal is available, P/N C710196, MIL. P/N M5423/16-01.

Features:

- Sealed to IP68S and IP69K
- Switches up to 16 amps
- Withstands extreme shock & vibration
- Positive detent, non-teasible contact transfer
- 2 & 3-position, momentary & maintained action
- Choice of terminal styles
- UL recognized & CSA certified
- RoHS compliant
- Black matte finish available (contact factory)







Standard Characteristics/Ratings:								
ELECTRICAL RATINGS:								
Load	Sea Level @ 28VDC	Sea Level @ 125VAC 60/400 Hz	Cycles					
Resistive	16A	5A	25,000					
Resistive	10A	N/A	50,000					
Inductive	7A	2A	25,000					
DWV	1000 VRMS	1000 VRMS	1000 VRMS					
Logic Level	10mA @ 5VDC	N/A	50,000					
Electrical Life:	See Rating Chart							
Mechanical Life:	100,000 cycles							
Seal:	IP68S and IP69K							
Operating Temp Range:	-30°C to +85°C							
MATERIALS:								
Case:	Thermoplastic							
Bushing:	Anodized aluminum alloy							
Toggle:	Stainless steel							
Contacts:	Fine silver/silver cadmium oxide							
Logic Level:	Gold over silver							
Terminal Hardware:	6-32 screw when applicable T7 recommended Quick Connect terminals: AMP 60253-2 for 12-16 AWG AMP 42100-2 for 14-18 AWG							
Mounting Hardware:	Hex nuts, lockwasher, keyway washer							

T7 PART NUMBER CODE									
T7-	T7-X		X		X		X	X	
				_	/	/		\	
Circuitry	Terminal Style	Contact Rating			it Made oggle A		Toggle Style)	Button Color*
1. 1 Pole 2. 2 Pole	1250" Q.C. 2. Screw	1. Std. 2. Logic		Keyway Side	Center	Opposite Keyway	1. Bat Handle 2. Lever Locko	ut	1. Red 2. Black
	3. Solder	Level	A.	ON	NONE	OFF	(consult fact		3. Orange
	4. PC Pin		B.	ON	NONE	ON	3. Dome Button	n ,	4. Yellow
	(consult		C.	(ON)	NONE	OFF	4. Rocker Butte	on	5. Green
	factory)		D.	(ON)	NONE	ON	5. Bat Handle \	Nith	6. Blue
			E.	(ON)	OFF	(ON)	Bushing Sea	ıl	7. Purple
			F.	ON	OFF	ON			8. Gray
			G.	(ON)	OFF	ON			9. White
			H.	OFF	NONE	ON			
			J.	OFF	NONE	(ON)		*	Only applicable
			K.	ON	OFF	(ON)			to Toggle Styles 3 & 4; otherwise
			NOT	E: () den	otes mon	nentary ac	tion.		omit.

*See Lockout Configuration Codes

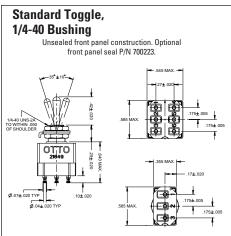
T7 Connector P/N C801765

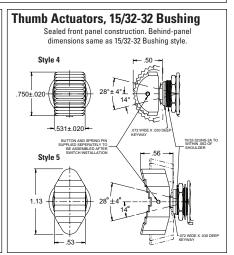
COMMERCIAL & MIL MINIATURE TOGGLES

MEETS MIL-DTL-83731, COMMERCIAL & MILITARY GRADES

Circuit Made With Lever At			15/32" Bushing (Sealed)		1/4-40" Bushing (Unsealed)		Lever Lock-15/32" Bushing (Sealed)			
No. Poles	Keyway Side 1-2 4-5	Center Position	Opposite Keyway 2-3 5-6	MIL-SPEC Part Number	OTTO Part Number	MIL-SPEC Part Number	OTTO Part Number	MIL-SPEC Part Number	OTTO Part Number	Suffix for Lockout Feature
1	ON	OFF	ON	MS27718-21-1	T3-11111	MS27716-21-1	T3-21111	MS27720-21-1_	T3-31111_	All
1	OFF	None	ON	MS27718-22-1	T3-11121	MS27716-22-1	T3-21121	MS27720-22-1_	T3-31121_	D, F, G
1	ON	None	ON	MS27718-23-1	T3-11131	MS27716-23-1	T3-21131	MS27720-23-1_	T3-31131_	D, F, G
1	(ON)	None	ON	MS27718-26-1	T3-11141	MS27716-26-1	T3-21141	MS27720-26-1_	T3-31141_	F
1	(ON)	OFF	(ON)	MS27718-27-1	T3-11151	MS27716-27-1	T3-21151	MS27720-27-1_	T3-31151_	E, L, N
1	(ON)	0FF	ON	MS27718-31-1	T3-11161	MS27716-31-1	T3-21161	MS27720-31-1_	T3-31161_	E, F, K, L, M, N
2	ON	OFF	ON	MS27719-21-1	T3-11211	MS27717-21-1	T3-21211	MS27721-21-1_	T3-31211_	All
2	OFF	None	ON	MS27719-22-1	T3-11221	MS27717-22-1	T3-21221	MS27721-22-1_	T3-31221_	D, F, G
2	ON	None	ON	MS27719-23-1	T3-11231	MS27717-23-1	T3-21231	MS27721-23-1_	T3-31231_	D, F, G
2	(ON)	None	ON	MS27719-26-1	T3-11241	MS27717-26-1	T3-21241	MS27721-26-1_	T3-31241_	F
2	(ON)	OFF	(ON)	MS27719-27-1	T3-11251	MS27717-27-1	T3-21251	MS27721-27-1_	T3-31251_	E, L, N
2	(ON)	OFF	ON	MS27719-31-1	T3-11261	MS27717-31-1	T3-21261	MS27721-31-1_	T3-31261_	E, F, K, L, M, N
NOTE: () denotes momentary action.										

Standard Toggle, 15/32-32 Bushing Sealed front panel construction.





Lever Lockout Toggle, 15/32-32 Bushing Sealed front panel construction. (.090) PULLOUT TO CHANGE POSITION DOUBLE POLE .47±.020 OTTO 21649 .860 MAX. .024 SQ. (.034 ACROSS CORNERS)

Lever Lockout Configuration Codes

Figures A thru P are schematics to illustrate lockout configurations and momentary positions. They do not represent details of construction.

- A Locked in all three positions
- **B** Locked in Center and Keyway Side position
- D Locked out of Center position
- E Locked in Center position
- F Locked in Opposite Keyway position
- G Locked in Keyway Side position
- H Locked out of Center and Keyway Side Position
- J Locked out of Center and Opposite Keyway position
- K Locked in Center and Opposite Keyway position
- L Locked out of Keyway Side position M Locked out of and into Opposite Keyway position
- ${\bf N}$ Locked out of Opposite Keyway position
- P Locked out of and into Keyway Side position

