COMMERCIAL & MIL MINIATURE TOGGLES

FEATURING OTTO'S UNIQUE SNAP-ACTION MECHANISM

These miniature toggles are rugged, highly reliable switches offering positive detent action for safe switching operation. Featuring the unique OTTO snap-action switch mechanism in conjunction with a unique toggle actuator design, the T3 series offers snap-action contact actuation.

High contact pressure and superior wiping action of the OTTO design makes the T3 series an excellent choice for switching loads from logic level up to 5 amps.

Choose sealed one or two pole circuitry, 15/32-32 sealed or 1/4-40 unsealed bushing construction, momentary and/or maintained operation. The 15/32-32 bushing model is also available with lever lockout toggle feature or thumb button actuators.

Molded-in terminals seal the contacts against moisture and solder flux wicking. The front-panel side of 15/32-32 bushing models are sealed against water and other liquids per MIL-DTL-83731.

In addition to the single turret solder terminal specified in MIL-DTL-83731, we also offer two different lengths of pins for printed circuit soldering.

Mounting hardware provided includes two hex nuts, one lockwasher and one keyway washer.

Features:

- Snap-action contact actuation
- Shorter behind panel depth
- Superior wiping action keeps contacts clean
- Positive tactile response prevents operating errors
- Weighs up to 25% less than competitive products
- More contact/terminal plating choices
- Highly reliable, simpler design, fewer parts
- Black matte finish available. Contact factory.
- RoHS/WEEE/Reach compliant



Standard Characteristics/Ratings:									
ELECTRICAL RATINGS:									
Load	Sea Level @ 28VDC or 115VAC, 400Hz	@ 65,000 Feet							
Resistive	5A	5A							
Inductive	2A	2A							
Lamp	1A	N/A							
DWV	1050Vrms	400Vrms							
Electrical Life:	30,000 cycles								
Mechanical Life:	100,000 cycles								
Seal:	MIL-DTL-83731 (15/32-32 bushing style only)								
Operating Temp Range:	-65°C to +85°C								
MATERIALS:									
Handle:	303 Stainless								
Bushing:	Per MIL-DTL-83731								
Body:	Per MIL-DTL-83731								
Terminal Hardware:	None required								
Mounting Hardware:	Hex nuts, lockwasher and ke	eyway washer							

T3 PART NUMBER CODE X X **Bushing Style Terminal Style** Circuitry Circuit Made With Lever At: **Contact Material Lockout Feature Button Color** (for bushing styles 4, 5 and 7 only) 1. Single Pole 1. 15/32-32 1. Single Turret Keyway Center **Opposite** 1. Silver/Gold Flash Lockout feature 1. Red 2. 1/4-40 4. PC Pin 0.150" lq. 2. Double Pole Keyway 2. Gold Plate configuration code 2. Black 3 15/32-32 With Lockout ① OFF 5. PC Pin 0.270" la ΩN ΩN letters A-P for 8. Grav 4. 15/32-32 With Convex 2. NFF NONE ON bushing styles 3 and 6 Button @ 3. ON NONE ON only. Otherwise omit. 5. 15/32-32 With Concave 4. (ON) NONE UNI Button ② (ON) **NFF** (0N)6. 15/32-32 With Lockout and 6. (ON) OFF NΩ Smaller Bat Handle ① NOTE: () denotes momentary action. 7. 1/4-40 with Rocker Button @ Special Note: For black levers and bushings, 8. 15/32-32 with Small Paddle Bat Handle please contact factory. 9. 15/32-32 with Large Paddle Bat Handle

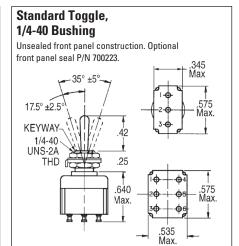
- ① Add appropriate lockout feature configuration code letter (A thru P) for bushing styles 3 and 6 only
- ② Button color codes (1, 2 and 8) for bushing styles 4, 5 and 7 at end of Part Number.

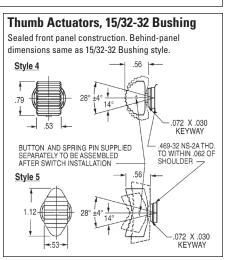
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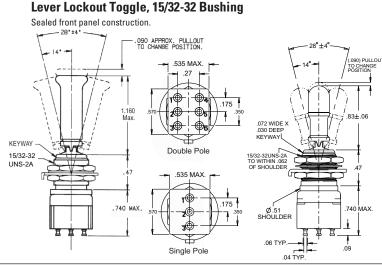
MEETS MIL-DTL-83731, COMMERCIAL & MILITARY GRADES

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)	OFF	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. 28° ±4° 690 KEYWAY 15/32-32 UNS-2A







Lever Lockout Configuration Codes Figures A thru P are schematics to illustrate lockout

configurations and momentary positions. They do not represent details of construction.

- .090) PULLOUT 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
 - N Locked out of Opposite Keyway position
 - P Locked out of and into Keyway Side position

