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** 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	1200Vrms	400Vrms						
Contact Resistance	$25\ m\Omega$ max initial							
Electrical Life:	30,000 cycles	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:	Nounting Hardware: Hex nuts, lockwasher and keyway washer							

Bushing Style	Terminal Style	Circuitry		Circuit N	lade With	Lever At:	Contact Material	Lockout Feature	Button Color @ For bushing styles 4, 5 and 7
1. 15/32-32	1. Single Turret	1. Single Pole		Keyway	Center	Opposite	1. Silver/Gold Flash	Lockout feature	1. Red
2 . 1/4-40	4. PC Pin 0.150" lg.	2. Double Pole		Side		Keyway	2. Gold Plate	configuration code	2. Black
3. 15/32-32 With Lockout ①	5. PC Pin 0.270" lg.		1.	ON	0FF	ON		letters A–P for	8. Gray
4. 15/32-32 With Convex Button @ 5. 15/32-32 With Concave Button @			2. 3.	OFF ON	NONE NONE	ON ON		bushing styles 3, 6 and A only.	Lever Color
6. 15/32-32 With Lockout and	,		3. 4.	(ON)	NONE	ON		Otherwise omit.	For bushing styles 1 & 2 - bat handle &
Smaller Bat Handle ①			5.	(ON)	OFF	(ON)		Otherwise offic.	bushing
7. 1/4-40 with Rocker Button ②			5. 6.	(ON)	OFF	ON			A. Black
8. 15/32-32 with Small Paddle Bat			U.	(ON)	UII	ON			No Selection. Clear
Handle				NOTE. / \					
9. 15/32-32 with Large Paddle Bat				NUTE: ()	denotes mo	mentary acti	on.		For bushing styles 3 & 6 - bat handle &
Handle									bushing (available only in clear)
A. 15/32-32 With Lockout and									No Selection. Clear
Knurled Lockout Handle									For bushing styles 8 & 9 - bat handle on

T3 PART NUMBER CODE

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

For bushing styles 8 & 9 - bat handle only

- 1. Clear
- 2. Red

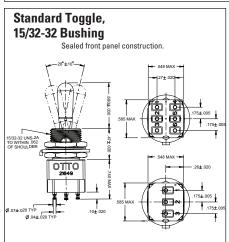
No Selection. Black

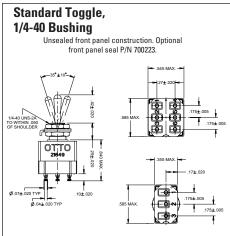
OGGLE SWITCHES

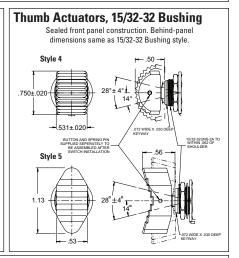
COMMERCIAL & MIL MINIATURE TOGGLES

MEETS MIL-DTL-83731, COMMERCIAL & MILITARY GRADES

Circuit Made With Lever At			15/32" Bushi	ng (Sealed)	1/4-40" Bushin	g (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
NOT	E: () denotes	momentary ac	tion.			•		'		







Sealed front panel construction. Sealed front panel construction. 1.160 MAX. MARKING ETHER SIDE EXCEPT T3-58/32. THEN DOUBLE POLE 1.775±.005 MARKING ETHER SIDE EXCEPT T3-58/32. THEN OF SHOULDER 1.775±.005 MARKING ETHER SIDE OF SHOULDER

Lever Lockout Configuration Codes

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

- $\boldsymbol{\mathsf{A}}$ 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
- ${f J}$ Locked out of Center and Opposite Keyway position
- K Locked in Center and Opposite Keyway position
- L Locked out of Keyway Side position
- $\boldsymbol{\mathsf{M}}$ Locked out of and into Opposite Keyway position
- N Locked out of Opposite Keyway position
- P Locked out of and into Keyway Side position

