TOGGLE SWITCHES

ENVIRONMENTALLY SEALED TOGGLE

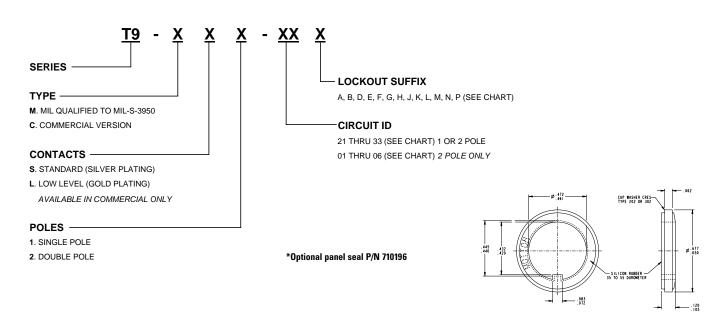
The T9 Toggle Switch is an ideal switch for demanding applications, compliant to MIL-DTL-3950, this high performance switch is a logical choice for use in environments where sealing and resistance to shock and vibration are required. The T9 is particularly suitable for applications in off-highway, aviation, commercial and industrial equipment. This compact, environmentally sealed switch is available in single and double pole configurations with a lever lockout option. Circuitry configurations include two or three positions with many combinations of OFF/ON in momentary and maintained action including ON-ON-ON.



Quality Features:

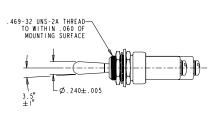
- Compliant to MIL-DTL-3950
- Sealed per IP68 or per MIL-DTL-3950
- Electrical life 20,000 cycles full load
- Mechanical life 40,000 cycles
- Lever lockout option available
- Temperature range -65°C +71°C
- UL, CSA, and CE approvals (pending)
- Maintained and momentary toggle action
- Optional panel seal

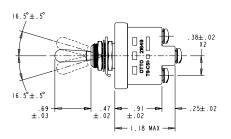
T9 Part Number Code

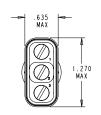


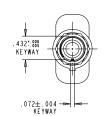
TOGGLE SWITCHES

Single Pole



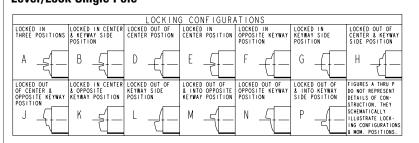


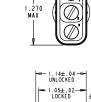


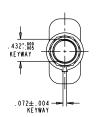


0.110 0.101	MILLETARY		CIRCUIT BY	TOGGLE LEVE	R POSITION	ELECTRICAL RATINGS – SEA LEVEL & 65,000 FT							
OTTO PART NO.	MILITARY NO.	DASH NO.	KEYWAY	CENTER	OPP. KEYWAY	KEYWAY 28 VDC				II5 VAC			
110.			I - 2	CENTER	2 - 3	LAMP	RESISTIVE	INDUCTIVE	LAMP	RESISTIVE	INDUCTIVE		
		21	ON	OFF	ON		20			15	10		
		22	OFF	NONE	ON	5		1.5	3				
	MS24523-	23	ON	NONE	ON		20		3	13	10		
		24	NONE	OFF	ON								
		25	NONE	MOM OFF	ON	4				15	7		
T9-MSI-		26	MOM ON	NONE	ON		15						
		27	MOM ON	OFF	MOM ON								
		28	MOM ON	OFF	NONE			10	2				
		29	MOM OFF	NONE	ON								
		30	MOM ON	NONE	OFF								
		31	MOM ON	OFF	ON								
OTTO	MILITARY	DASH	KEAMAA	CENTER	OPP. KEYWAY		28 VDC		II5 VAC				
PART NO.	NO.	NO.	KEYWAY	I - 2	2 - 3	LAMP	RESISTIVE	INDUCTIVE	LAMP	RESISTIVE	INDUCTIVE		
TO MCI	MCCAECO	32	NONE	ON	MOM ON	4	15	10	2	15	7		
T9-MSI-	MS24523-	33	NONE	ON	ON	5	20	15	3	15	10		

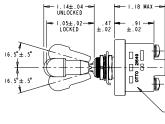
Lever/Lock Single Pole

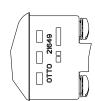




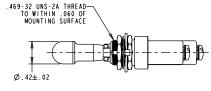


-MARKING THIS SIDE SEE DETAIL



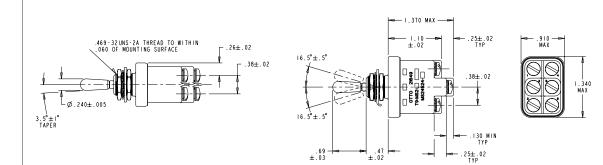






				CIRCUIT B	Y TOGGLE LEVER	POSITION	ELECTRICAL RATINGS - SEA LEVEL & 65,000 FT						
OTTO BASE	MILITARY	DASH	AVAILABLE				28 VDC			II5 VAC			
PART NO. NO.	NO.	LOCKOUTS (SEE CHART)	KEYWAY	CENTER	OPP. KEYWAY 2-3	LAMP	RESISTIVE	INDUCTIVE	LAMP	RESISTIVE	INDUCTIVE		
			I - 2										
		21	ALL	ON	OFF	ON	5	20	ا ا		15		
		22	DFG	OFF	NONE	ON			15	3		10	
		23	DFG	ON	NONE	ON							
		24	EFKM	NONE	OFF	ON							
		25	F	NONE	OFF (M)	ON	4			2			
T9-MSI-	MS24658-	26	F	MOM ON	NONE	ON					15		
		27	ELN	MOM ON	OFF	MOM ON		15	10			7	
		28	E	MOM ON	OFF	NONE		''				'	
		29	F	MOM OFF	NONE	ON							
		30	F	MOM ON	NONE	OFF							
		31	EFKLMN	MOM ON	OFF	ON							
0110	MILITARY	DASH	AVAILABLE	VENWAY	CENTER	OPP. KEYWAY	28 VDC		II5 VAC				
BASE NO.	NO.	NO.	LOCKOUT	KEYWAY	1 - 2	2-3	LAMP	RESISTIVE	INDUCTIVE	LAMP	RESISTIVE	INDUCTIVE	
T9-MSI-	MS24658-	32	E	NONE	ON	MOM ON	4	15	10	2	15	1	
12-W21-	M324638-	33	EFKM	NONE	ON	ON	5	20	15	3	15	10	





0770 0105			CIRC	CUIT CONFIGURA	TION	ELECTRICA	L CURRENT	RATINGS (A	AMPS) - SE	ELECTRICAL CURRENT RATINGS (AMPS) - SEA LEVEL & 65,000 FT							
OTTO BASE PART NO.	MILITARY STANDARD	DASH NO.	KEYWAY	CENTER	OPP. KEYWAY		28 VDC		II5 VAC, 60Hz & 400Hz								
TART NO.		1-2 / 4-5	CENTER	2-3 / 5-6	LAMP	RESISTIVE	INDUCTIVE	LAMP	RESISTIVE	INDUCTIVE							
		21	ON	OFF	ON	7				15	10						
		22	OFF	NONE	ON		20	15	4								
		23	ON	NONE	ON			13									
		24	NONE	OFF	ON												
		25	NONE	MOM OFF	ON		18			П	8						
T9-MS2-	MS24524-	26	MOM ON	NONE	ON												
		27	MOM ON	OFF	MOM ON	5											
		28	MOM ON	OFF	NONE			10	2								
		29	MOM OFF	NONE	ON												
		30	MOM ON	NONE	OFF												
		31	MOM ON	OFF	ON												
OTTO BASE	MILITARY	DASH	KEYWAY	CENTER	OPP. KEYWAY	28 VDC			II5 VAC								
PART NO.	STANDARD	NO.	KEIWAI	1-2 / 4-5	2-3 / 5-6	LAMP	RESISTIVE	INDUCTIVE	LAMP	RESISTIVE	INDUCTIVE						
T9-MS2-	MS24524-	32	NONE	ON	MOM ON	5	18	10	2	- 11	8						
13-1407.	M324324"	33	NONE	ON	ON	7	20	15	4	15	15						

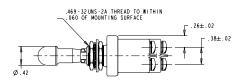


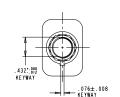
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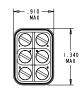
.076±.008 KEYWAY

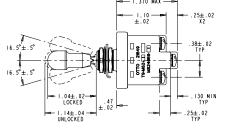
Lever/Lock Double Pole

		LOCKING	G CONFIGURA	ATIONS		
LOCKED IN THREE POSITIONS	LOCKED IN CENTER & KEYWAY SIDE POSITION	LOCKED OUT OF CENTER POSTION	LOCKED IN CENTER POSITION	LOCKED IN OPPOSITE KEYWAY POSITION	LOCKED IN KEYWAY SIDE POSITION	LOCKED OUT OF CENTER & KEYWAY SIDE POSITION
A ={-	B =	D -{-	E -{-	F -{	G -{-	H -{[
	LOCKED IN CENTER & OPPOSITE KEYWAY POSITION	LOCKED OUT OF KEYWAY SIDE POSITION	LOCKED OUT OF & INTO OPPOSITE KEYWAY POSITION	LOCKED OUT OF OPPOSITE KEYWAY POSITION		FIGURES A THRU P DO NOT REPRESENT DETAILS OF CON- STRUCTION. THEY
J -{[-	K ={	L	M ={-	N <u> </u>	P ={-	SCHEMATICALLY ILLUSTRATE LOCK- ING CONFIGURATIONS & MOM. POSITIONS.











	MILLETINA		AVAILABLE	CIRCUIT CONFIGURATION			ELECTRICAL CURRENT RATINGS (AMPS) - SEA LEVEL & 65,000 FT						
OTTO BASE PART NO.	MILITARY STANDARD	DASH NO.	LOCKOUTS	KEYWAY	CENTER	CENTED OPP. KEYWAY		28 VDC			II5 VAC, 60Hz & 400Hz		
TANT NO.	OTHIBAILD		(SEE CHART)	1-2 / 4-5	CENTER	2-3 / 5-6	LAMP	RESISTIVE	INDUCTIVE	LAMP	RESISTIVE	INDUCTIVE	
		21	ALL	ON	OFF	ON				4	15		
		22	D,F,G	OFF	NONE	ON	١,	20	15			10	
		23	D,F,G	ON	NONE	ON	,					10	
T9-MS2- MS		24	E,F,K,M	NONE	OFF	ON							
		25	F	NONE	MOM OFF	ON	5				11		
	MS24659-	26	F	MOM ON	NONE	ON							
		27	E,L,N	MOM ON	OFF	MOM ON				2			
		28	E	MOM ON	OFF	NONE		18	10			8	
		29	F	MOM OFF	NONE	ON							
		30	F	MOM ON	NONE	OFF							
		31	E,F,K,L,M,N	MOM ON	OFF	ON							
OTTO BASE	MILITARY	DASH	F	KEYWAY	CENTER	OPP. KEYWAY		28 VDC		II5 VAC			
PART NO.	STANDARD	NO.	E	NEIWAI	1-2 / 4-5	2-3 / 5-6	LAMP	RESISTIVE	INDUCTIVE	LAMP	RESISTIVE	INDUCTIVE	
T9-MS2-	MS24659-	32	E	NONE	ON	MOM ON	5	18	10	2	- 11	8	
13-M25.	M324039"	33	E,F,K,M	NONE	ON	ON	7	20	15	4	15	15	

TOGGLE GUARDS

TG SERIES

The TG series toggle guards are offered for two & three position switches with 15 /32 -32 threaded bushings and slotted or flat keyways. All models feature spring loaded covers that lock in either the open or closed positions. In the open position the switch actuator operates on all positions freely, in the closed position, the switch actuator is locked in the desired position.

The toggle guard is easily installed on the switch from the front panel with two mounting hex nuts and an optional panel seal provided with each switch.

MS approved and QPL'd per MIL-DTL-7703 and MS25224-1





