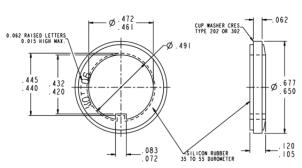


T9 Toggle Switches

MIL & Commercial Toggle Switches







OptionalPanel Seal P/N 710196MIL. P/N M5423/16-01

Qualified to MIL-DTL-3950

UL, CSA & CE approvals

Commercial versions sealed per IP68

Lever lockout option available

Mechanical life 40,000 cycles, minimum

Optional panel seal

Maintained & momentary toggle action

RoHS/WEEE/Reach compliant

SWITCH..it with

The T9 Toggle Switch is an ideal switch for demanding applications. Qualified 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 particuarly suitable for applications in defence, off-highway, aviation, commercial and industrial equipment. This compact, environmentally sealed switch is available in single and double pole configurations with lever lock out option. Circuitry configerations include wo or three positions with many combinations of OFF-ON in momentary and maintained action including ON-ON-ON.

Ordering Information

Part numbering example

T9 - M S 2 - 21 A

Type

M. MIL Qualified to MIL-PRF-3950

C. Commercial version

Contacts

S. Standard (Silver plate)

L. Low level (Gold plate)

Poles

1. Single pole

2. Double pole

Lockout Suffix A, B, D, E, F, G, H, J, K, L, M, N, P. (see charts below and over)

Circuit ID

21. to 33. 1 or 2 pole (see chart over)01. to 06. 2 pole only (see chart over)





Stock Profile	
OTTO Part No.	Military Part No.
T9-MS1-21	MS24523-21
T9-MS1-23	MS24523-23
T9-MS2-21	MS24524-21
T9-MS2-23	MS24524-23
T9-MS2-27	MS24524-27
TG-00001	MS25224-1
TG-00002	MS25224-3

Lever Lockout Configuration Codes

A Locked in all three positions

B Locked in centre and keyway side position

D Locked out of centre position

E Locked in centre position

 ${\bf F} \ {\sf Locked} \ {\sf in} \ {\sf opposite} \ {\sf keyway} \ {\sf position}$

G Locked in keyway side position

H Locked out of centre and keyway side position
 J Locked out of centre and opposite keyway position

K Locked in centre and opposite keyway position

 $\ensuremath{\textbf{L}}$ Locked out of keyway side position

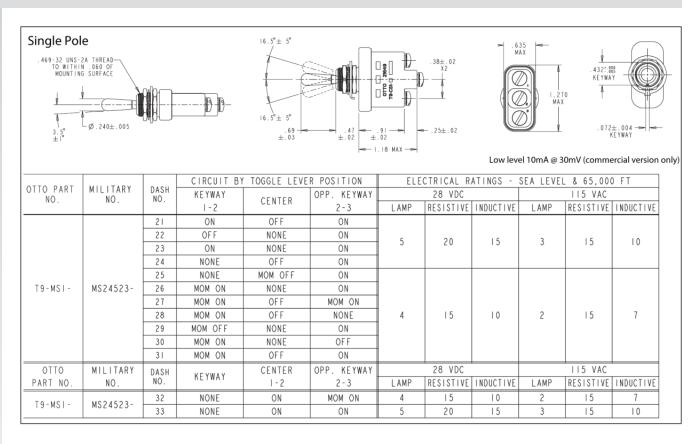
M Locked out of and into opposite keyway position

 \boldsymbol{N} Locked out of opposite keyway position

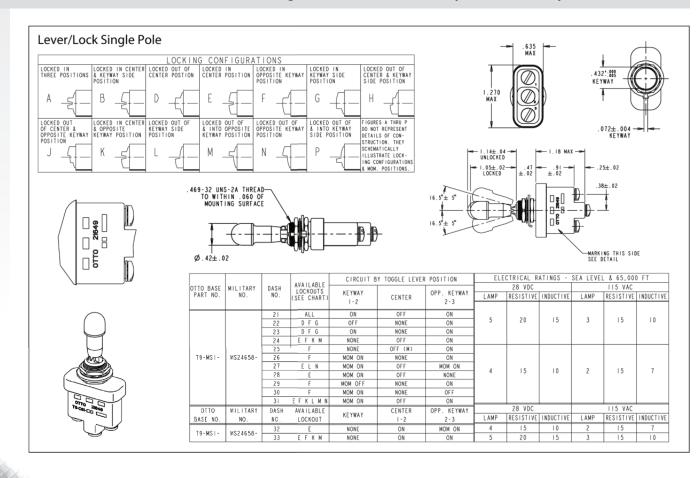
P Locked out of an into keyway side position

IS-Rayfast

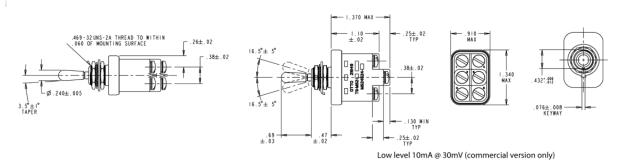
Single Pole MS24523 (T9-MS1-xx)



Single Pole MS24658 (T9-MS1xxx) Lever/Lock

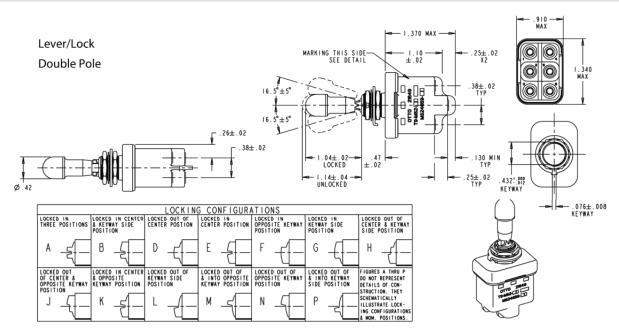


Double Pole MS27407 (T9-MS2-xx)



OTTO BASE	MILITARY STANDARD	DASH NO.	CIRCUIT CONFIGURATION			ELECTRICA	A LEVEL &					
			KEYWAY	CENTER	OPP. KEYWAY		28 VDC		115 VAC, 60Hz & 400H			
			1-2 / 4-5		2-3 / 5-6	LAMP	RESISTIVE	INDUCTIVE	LAMP	RESISTIVE	INDUCTIVE	
T9-MS2-01	MS27407-	1	ON	2-3 ON 4-5	ON	7	20	15	4	15	15	
T9-MS2-02		2	MOM ON	2-3 ON 4-5	ON	5	18	10	2	11	8	
T9-MS2-03		-3	MOM ON	2-3 ON 4-5	MOM ON] ,						
T9-MS2-04		4	ON	1-2 ON 5-6	ON	7	20	15	4	15	15	
T9-MS2-05		5	MOM ON	1-2 ON 5-6	ON	5	18	10	2	11	8	
T9-MS2-06		6	MOM ON	1-2 ON 5-6	MOM ON							
		21	ON	OFF	ON	7	20	15	4	15	15	
	MS24524-	22	OFF	NONE	ON							
		23	ON	NONE	ON							
		24	NONE	OFF	ON	1						
		25	NONE	MOM OFF	ON	5	18	10	2	11	8	
T9-MS2-		26	MOM ON	NONE	ON							
		27	MOM ON	OFF	MOM ON							
		28	MOM ON	OFF	NONE							
		29	MOM OFF	NONE	ON							
		30	MOM ON	NONE	OFF							
		31	MOM ON	OFF	ON	I						
OTTO BASE	MILITARY	DASH	VENMAN	CENTER	OPP. KEYWAY		28 VDC		II5 VAC			
PART NO.	STANDARD	NO.	KEYWAY	1-2 / 4-5	2-3 / 5-6	LAMP	RESISTIVE	INDUCTIVE	LAMP	RESISTIVE	INDUCTIVE	
TO 462	MS24524-	32	NONE	ON	MOM ON	5	18	10	2	- 11	8	
T9-MS2-		33	NONE	ON	ON	7	20	15	4	15	15	

Double Pole MS24659 (T9-MS2-xxx) Lever/Lock



			AVAILABLE LOCKOUTS (SEE CHART)	CIRCUIT CONFIGURATION			SWITCH		ELECTRICAL RATINGS - SEA LEVEL & 65,000 FT						
	MILITARY STANDARD			KEYWAY 1-2 / 4-5	CENTER	OPP. KEYWAY 2-3 / 5-6	POSITION MARKING		28 VDC			II5 VAC, 60Hz & 400Hz			
	STANDARD								LAMP	RESISTIVE	INDUCTIVE	LAMP	RESISTIVE	INDUCTIVE	
T9-MS2-	MS24659-	21	ALL	ON	OFF	ON	ON OFF	ON	1	20	15	4	15	15	
		22	D,F,G	OFF	NONE	ON	OFF	ON							
		23	D,F,G	ON	NONE	ON	ON	ON							
		24	E,F,K,M	NONE	OFF	ON	OFF	ON							
		25	F	NONE	MOM OFF	ON	OFF	ON	5	18	10	2	Ξ	8	
		26	F	MOM ON	NONE	ON	ON	ON							
		27	E,L,N	MOM ON	OFF	MOM ON	ON OFF	ON							
		28	Ε	MOM ON	OFF	NONE	ON OFF								
		29	F	MOM OFF	NONE	ON	OFF	ON							
		30	F	MOM ON	NONE	OFF	ON C	OFF							
		31	E,F,K,L,M,N	MOM ON	OFF	ON	ON OFF	ON							
OTTO BASE	MILITARY	DASH	AVAILABLE	VEVWAV	CENTER	OPP. KEYWAY	SWITCH				28 VDC		II5 VAC		
PART NO. STANDARD		LOCKOUT	CKOUT KEYWAY	1-2 / 4-5	2-3 / 5-6	POSITION MARKING		LAMP	RESISTIVE	INDUCTIVE	LAMP	RESISTIVE	INDUCTIVE		
T9-MS2-	MS24659-	32	Ε	NONE	ON	MOM ON	ON	ON	5	18	10	2	П	8	
		33	E,F,K,M	NONE	ON	ON	ON	ON	7	20	15	4	15	15	

T9 Toggle Guards

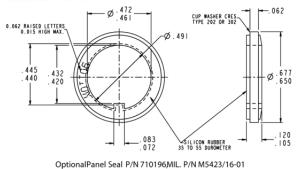
Toggle Switch Guards



The TG series toggle guards are offered for 2 and 3 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 may be used with the optional panel seal provided with each switch - No. 710196 illustrated below.



- The TG series of toggle guards are offered with the T9 switch range.
- MS approved and QPL'd choices per MIL-DTL-7703 and MS25224-1 and -3
- Moulded plastic cover.
- · Black metal mounting bracket.

