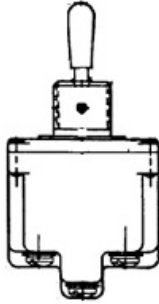




4TL1-1



Actual product appearance may vary.

TL Series Toggle Switch, 4 pole, 3 position, Screw terminal, Standard Lever, Military Part Number MS24525-21

Features

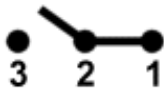

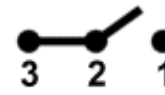
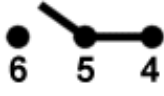

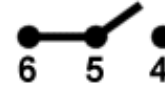
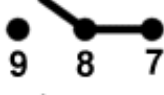

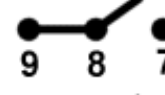
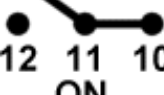

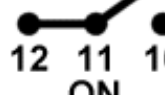
- Qualified to MIL-S-3950
- Environment-proof sealing
- 1,2, and 4 pole circuitry
- Standard and pull-to-unlock levers
- 2 and 3 position, maintained and momentary toggle action
- Temperature range: -85°F to +160°F
- Completely sealed switching chamber
- Step-design case provides added space between terminals to help prevent shorting
- UL recognized, CSA certified
- CE approved

Potential Applications

- Industrial machinery and equipment
- Military and commercial aviation
- Construction equipment
- Test instruments
- Agricultural machinery
- Process control
- Medical instrumentation

Description

MICRO SWITCH™ TL Series toggle switches have high strength, temperature resistant, non-tracking case material and silver cadmium oxide contacts. Pull-to-Unlock toggle levers prevent accidental operation; the lever must be pulled approx. 2,3 mm (0.09 inches) to change positions.

Product Specifications			
Circuitry/ Operating action	Keyway Position	Center Position	Opposite Keyway Position
			
			
			
	 ON	 OFF	 ON
Product Type	MICRO SWITCH™ Toggle Switch		
Ampere/ Voltage Range (Resistive Load)	0.5 A to 15 A at 0.5 Vac to 277 Vac, 0.5 A at 250 Vdc, 0.75 A at 115 Vdc, 0.5 A to 20 A at 0.5 Vdc to 28 Vdc		
Circuitry	4PDT		
Action	3 position		
Mounting	Bushing 15/32 in		
Termination	Screw		
Military Part Number	MS24525-21		
Lever Type	Standard		
UL/CSA Rating Code	L191: 15 A-125, 250, 277 Vac; 1/2 Hp-125 Vac; 1 Hp-250, 277 Vac; 5 A-120 Vac "L"		
Comment	Silver cadmium oxide contacts		
Availability	Global		
UNSPSC Code	30211908		
UNSPSC Commodity	30211908 Toggle switches		
Series Name	TL		

MICRO SWITCH

FREEPORT, ILLINOIS, U.S.A.
A DIVISION OF HONEYWELL

FED. MFG. CODE 91929

SWITCH - TOGGLE

CATALOG LISTING
4TL1 SERIES
CHART 2

THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH, A DIVISION OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH.

CATALOG LISTING
4TL1 SERIES
CHART 2

PAGE 1 OF 1
RELEASE NO. PR-9364

ISSUE
M
31

REVISIONS

A	CO-81150
	J A K 20 JUN 95
B	C092162
	J A K 5 MAR 98
C	CO 94440
	G R T 23 NOV 99

CHECK

CHECK

CHECK

CHECK

CHECK

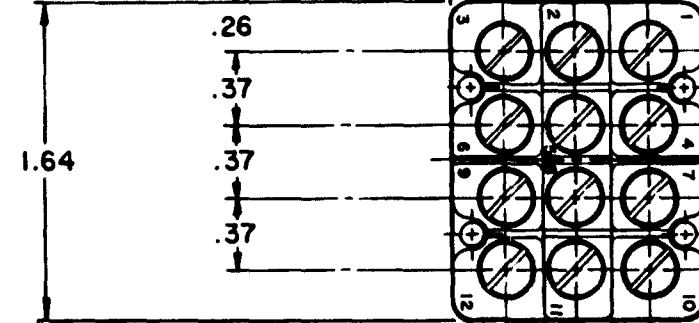
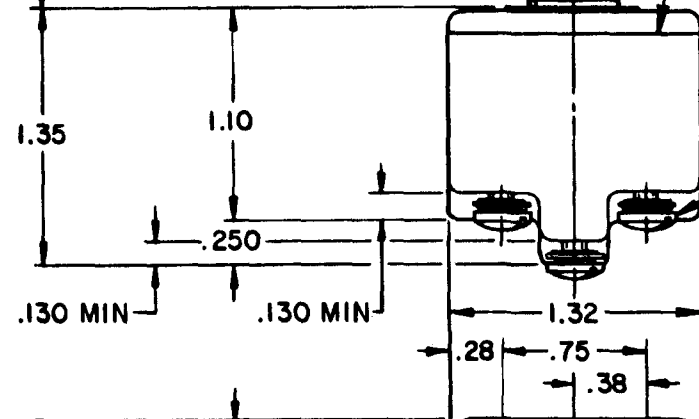
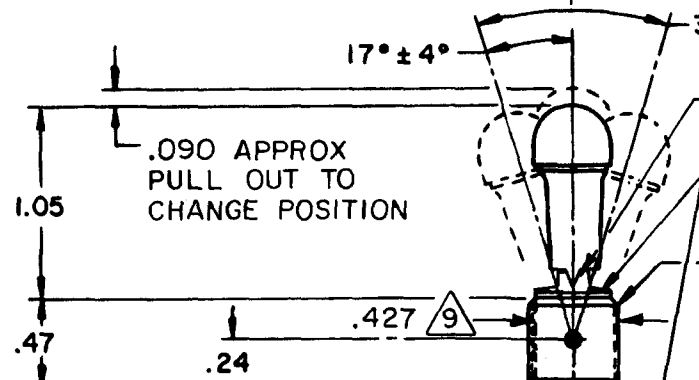
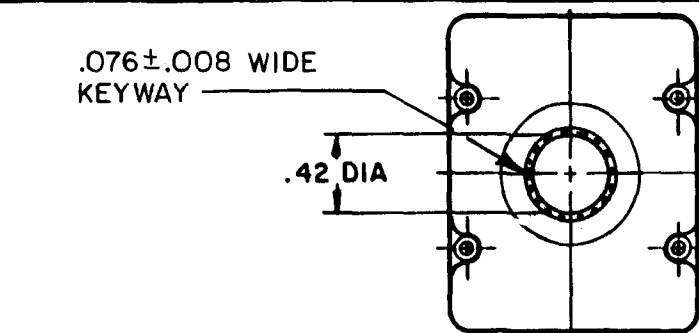
CHECK

CHECK

CHECK

CHECK

CHECK

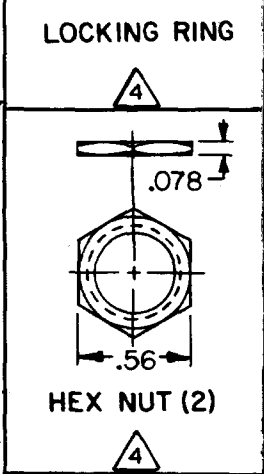
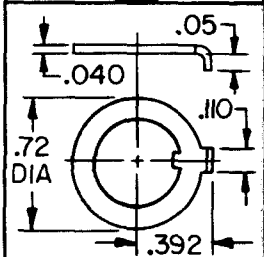
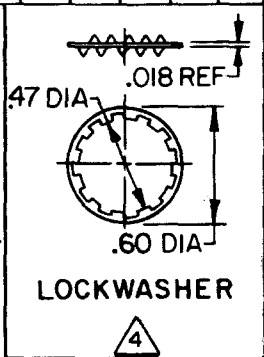
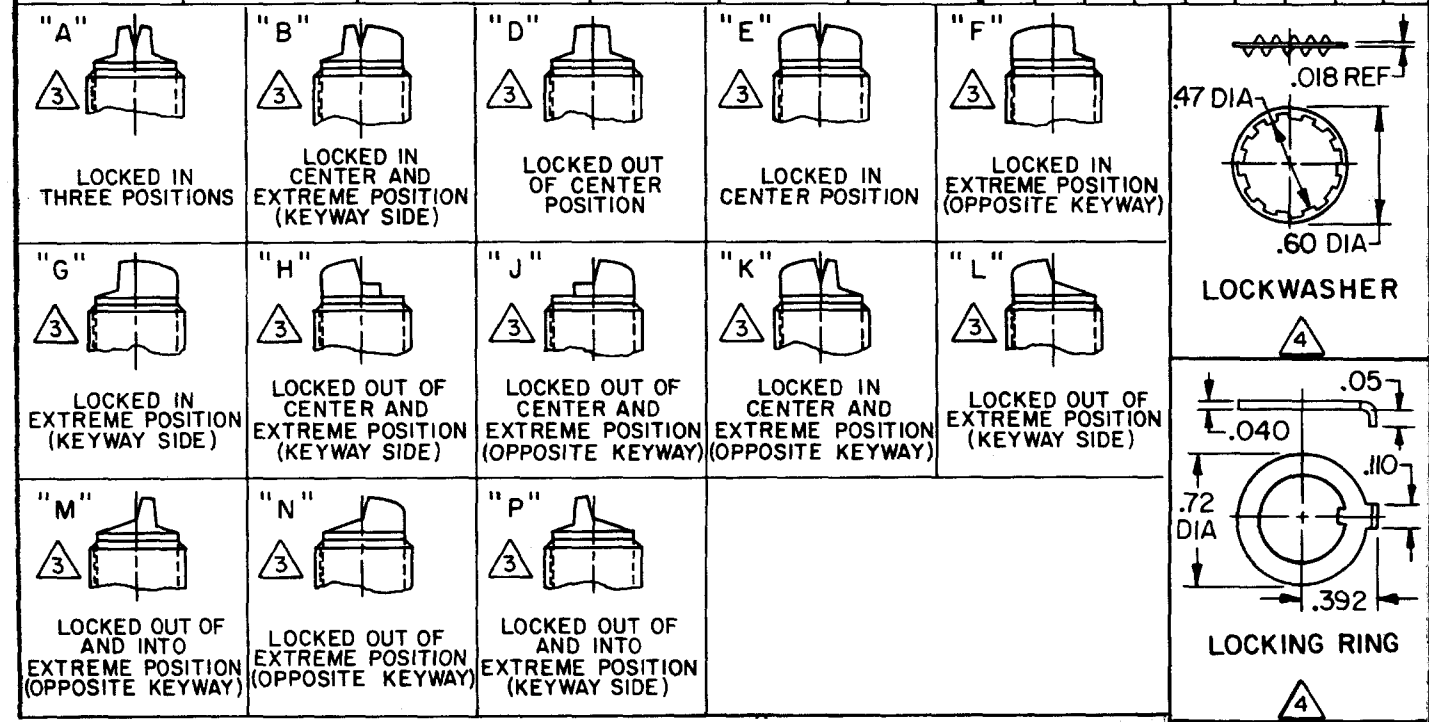


15A-125, 250 OR 277 VAC 1/2HP-125VAC; 1HP-250, 277VAC 5A-125VAC "L" CODE L191	CE UL
10A-125, 250, 277 VAC 1/4HP-125VAC; 1/2HP-250, 277VAC 3A-125VAC "L" CODE 192	CE UL

SEE LOCKING DETAILS FOR DESCRIPTION ("A" LOCKING INSERT SHOWN)
SEALED TO PREVENT ENTRANCE OF LIQUIDS OR DUST
15/32-32 UNS-2 THREAD TO WITHIN .060 OF SHOULDER

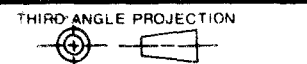
6-32 UNC X .260 REF BINDING HEAD TERMINAL SCREW AND LOCKWASHER (SEMS) (12)

MS NUMBER	CATALOG LISTING	AVAILABLE LOCKING COMBINATIONS FOR CONFIGURATION SEE LETTERING DETAILS	CIRCUIT MADE WITH TOGGLE LEVER IN			MILITARY RATING (AMPS)													
			KEYWAY SIDE (1-2, 4-5) (7-8, 10-11)	CENTER (1-2, 4-5) (7-8, 10-11)	OPPOSITE KEYWAY (2-3, 5-6) (8-9, 11-12)	RESISTIVE LOAD DC VOLTS		LAMP LOAD IAC VOLTS		IND. LOAD VDC		IND. LOAD VAC							
24660-21	4TL1-1	AB,DE,F,G,H,J,K,L,M,NP	ON	OFF	ON														
24660-22	4TL1-2	D, F, G	OFF	NONE	ON														
24660-23	4TL1-3	D, F, G	ON	NONE	ON	20	.75	.5	15	6	5	4	12	15	(REFER TO L191 FOR UL RATING)				
24660-24	4TL1-21	E, F, K, M	NONE	OFF	ON														
24660-33	4TL1-31	E, F, K, M	NONE	ON	ON														
24660-29	4TL1-4	F	MOM OFF	NONE	ON														
24660-31	4TL1-5	E, F, K, L, M, N	MOM ON	OFF	ON														
24660-30	4TL1-6	F	MOM ON	NONE	OFF														
24660-27	4TL1-7	E, L, N	MOM ON	OFF	MOM ON	18	.75	.5	11	6	4	2	10	8	(REFER TO L192 FOR UL RATING)				
24660-26	4TL1-8	F	MOM ON	NONE	ON														
24660-32	4TL1-51	E	NONE	ON	MOM ON														
24660-28	4TL1-61	E	MOM ON	OFF	NONE														



NOTES

- SWITCHES ARE CAPABLE OF WITHSTANDING TEMPERATURE OF 160°F CONTINUOUSLY AT FULL RATED LOAD
- CIRCUIT DESIGNATION, MICRO SWITCH CATALOG LISTING AND MS NUMBER MARKED ON SIDE OF SWITCH
- KEYWAY SHOWN ON LEFT SIDE
- FURNISHED UNASSEMBLED
- THESE SWITCHES ARE QUALIFIED UNDER MIL-S-3950
- FOR TERMINAL COVER SEE MICRO SWITCH CATALOG LISTING 5PA9
- SUFFIX LETTER MUST BE ADDED FOR DESIRED TYPE TOGGLE LOCKING SEE CHART FOR AVAILABLE LOCKING COMBINATIONS
- APPLIES ONLY TO "ON" AND "MOM ON" POSITIONS
- FROM BOTTOM OF KEYWAY TO MAJOR DIAMETER OF 15/32 THREAD



SCALE FULL

DO NOT SCALE PRINT

TOLERANCES

APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

	DIM.	TOL.	DIM.	TOL.
	mm	mm/in	in	mm/in
NO PLACES	X	17.04	X, X	0.8/.03
TWO PLACES	X, X	0.4/.015	X, X, X	0.38/.015
THREE PLACES	X, X, X	0.15/.006	X, X, X, X	0.13/.005
ANGLES				

DESIGN UNITS SI METRIC US CUSTOMARY

WEIGHT

FORMTEK

DRAWN WJM

7 DEC 82

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK