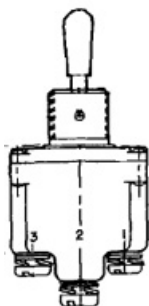




### 1TL1-1



*Actual product appearance may vary.*

**TL Series Toggle Switch, 1 pole, 3 position, Screw terminal, Standard Lever, Military Part Number MS24523-21**

#### Features

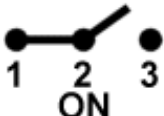

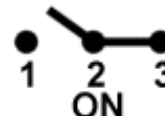
- Qualified to MIL-S-3950
- Environment-proof sealing
- 1,2, and 4 pole circuitry
- Standard and pull-to-unlock levers
- 2 and 3 position, maintained and momentary toggle action
- Temperature range: -85°F to +160°F
- Completely sealed switching chamber
- Step-design case provides added space between 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	<div> <div> <b>Keyway Position</b>   </div> <div> <b>Center Position</b>   </div> <div> <b>Opposite Keyway Position</b>   </div> </div>
Product Type	MICRO SWITCH™ Toggle Switch
Ampere/ Voltage Range (Resistive Load)	0.5 A to 20 A at 0.5 Vdc to 28 Vdc,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
Circuitry	SPDT
Action	3 position
Mounting	Bushing 15/32 in
Termination	Screw
Military Part Number	MS24523-21
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

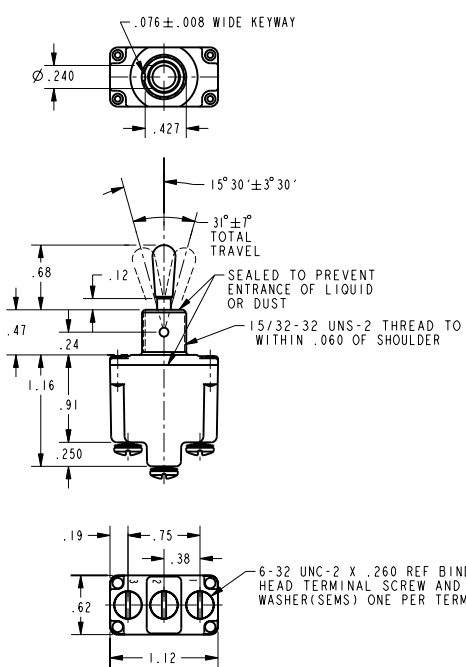
**MICRO SWITCH**  
a Honeywell Division  
FED. MFG. CODE 91929

**SWITCH - TOGGLE**

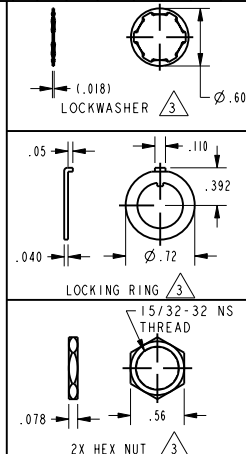
**ITL1 SERIES CHART 1**

CATALOG LISTING

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



		<div>5</div> CIRCUIT MADE WITH TOGGLE LEVER IN				MILITARY RATING (AMPS)							
CATALOG LISTING	KEYWAY SIDE (1-2)	CENTER (1-2)	OPPOSITE KEYWAY (2-3)	MILITARY STANDARD NUMBER	RESISTIVE LOAD				INDUCTIVE LOAD				
					DC VOLTS	AC VOLTS	LAMP LOAD		DC VOLTS	AC VOLTS	LAMP LOAD		
					28	125	250	125	250	28	125	250	
ITL1-1	ON	OFF	ON	MS24523-21	20	.75	.5	15	6	5	3	15	10
ITL1-2	OFF	NONE	ON	MS24523-22									
ITL1-3	ON	NONE	ON	MS24523-23									
ITL1-21	NONE	OFF	ON	MS24523-24									
ITL1-31	NONE	ON	ON	MS24523-33	(REFER TO L191 FOR UL RATING)								
ITL1-4	MOM OFF	NONE	ON	MS24523-29									
ITL1-5	MOM ON	OFF	ON	MS24523-31									
ITL1-6	MOM ON	NONE	OFF	MS24523-30	15	.75	.5	15	6	4	2	10	7
ITL1-7	MOM ON	OFF	MOM ON	MS24523-27									
ITL1-8	MOM ON	NONE	ON	MS24523-26									
ITL1-51	NONE	ON	MOM ON	MS24523-32									
ITL1-61	MOM ON	OFF	NONE	MS24523-28	(REFER TO L192 FOR UL RATING)								



- NOTES
- 1 - SWITCHES ARE CAPABLE OF WITHSTANDING A TEMPERATURE OF 160° F CONTINUOUSLY AT FULL RATED LOAD
  - 2 - CIRCUIT DESIGNATION, MICRO SWITCH CATALOG LISTING AND "MS" NUMBER MARKED ON SIDE OF SWITCH
  - 3 - FURNISHED UNASSEMBLED
  - 4 - FOR TERMINAL COVER, SEE MICRO SWITCH CATALOG LISTING 5PA7
  - 5 - APPLIES ONLY TO "ON" AND "MOMENTARY ON" POSITIONS
  - 6 - THESE SWITCHES ARE QUALIFIED UNDER MIL-S-3950

15A-125, 250 OR 277 VAC 1/2 HP-125VAC: 1 HP-250, 277 VAC 5A-125VAC "L" CODE L191	10A-125, 250, 277 VAC 1/4 HP-125VAC: 1/2 HP-250, 277 VAC 3A-125VAC "L" CODE L192	CE UL	CE UL
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THIRD ANGLE PROJECTION

SCALE FULL

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE (.01) ±.030

TWO PLACE (.001) ±.015

THREE PLACE (.0001) ±.005

ANGLES ±

WEIGHT .07 LBS APPROX