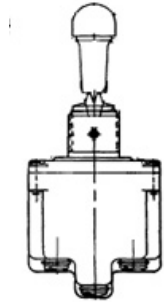




2TL1-7E



Actual product appearance may vary.

TL Series Toggle Switch, 2 pole, 3 position, Screw terminal, Locking Lever, Military Part Number MS24659-27E

Features

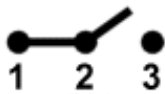

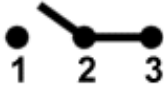



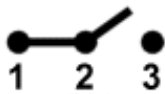

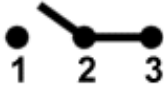



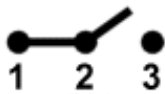

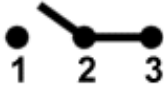




- Qualified to MIL-S-3950
- Environment-proof sealing
- 1,2, and 4 pole circuitry
- Standard and pull-to-unlock levers
- 2 and 3 position, maintained and momentary toggle action
- Temperature range: -85°F to +160°F
- Completely sealed switching chamber
- Step-design case provides added space between 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	<table border="0"> <tr> <td style="text-align: center;">Keyway Momentary Position</td> <td style="text-align: center;">Center Position</td> <td style="text-align: center;">Opposite Keyway Momentary Position</td> </tr> <tr> <td style="text-align: center;">  </td> <td style="text-align: center;">  </td> <td style="text-align: center;">  </td> </tr> <tr> <td style="text-align: center;">  </td> <td style="text-align: center;">  </td> <td style="text-align: center;">  </td> </tr> <tr> <td style="text-align: center;">ON</td> <td style="text-align: center;">OFF</td> <td style="text-align: center;">ON</td> </tr> </table>	Keyway Momentary Position	Center Position	Opposite Keyway Momentary Position							ON	OFF	ON
Keyway Momentary Position	Center Position	Opposite Keyway Momentary Position											
													
													
ON	OFF	ON											
Product Type	MICRO SWITCH™ Toggle Switch												
Lever Lock	 <p style="text-align: center;">Locked in center position</p>												
Ampere/ Voltage Range (Resistive Load)	0.75 A at 115 Vdc, 0.5 A to 18 A at 0.5 Vdc to 28 Vdc, 0.5 A to 10 A at 0.5 Vac to 277 Vac, 0.5 A at 250 Vdc												
Circuitry	DPDT												
Action	3 position												
Mounting	Bushing 15/32 in												
Termination	Screw												
Military Part Number	MS24659-27E												
Lever Type	Locking												
UL/CSA Rating Code	L192: 10 A-125, 250, 277 Vac; 1/4 Hp-125 Vac; 1/2 Hp-250, 277 Vac; 3 A-125 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 91925

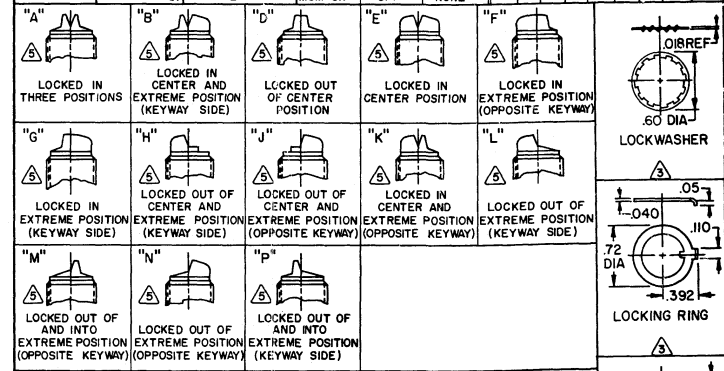
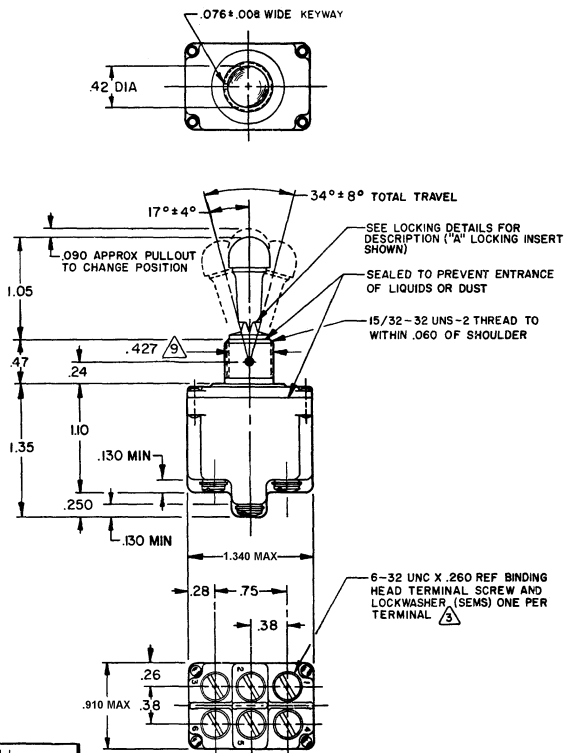
SWITCH-TOGGLE

CATALOG LISTING
2TL1 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.

MILITARY STANDARD NUMBER	CATALOG LISTING	AVAILABLE LOCKING COMBINATIONS FOR CONFIGURATION SEE LETTERED DETAILS	CIRCUIT MADE WITH TOGGLE LEVER IN			MILITARY RATING (AMPS)								
			KEYWAY SIDE (1-2, 4-5)	CENTER (1-2, 4-5)	OPPOSITE KEYWAY (2-3, 5-6)	RESISTIVE LOAD		LAMP LOAD		INDUCTIVE LOAD				
(6)	(A)	(A,B,C,D,E,F,G,H,I,J,K,L,M,N,P)	(1-2, 4-5)	(1-2, 4-5)	(2-3, 5-6)	DC VOLTS	AC VOLTS	DC VOLTS	AC VOLTS	DC VOLTS	AC VOLTS			
24659-21	2TL1-1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,P	ON	OFF	ON	20	75	15	15	6	7	4	15	15
24659-22	2TL1-2	D,F,G	OFF	NONE	ON	(REF TO L191 FOR UL RATING)								
24659-23	2TL1-3	D,F,G	ON	NONE	ON	(REF TO L191 FOR UL RATING)								
24659-24	2TL1-21	E,F,K,M	NONE	OFF	ON	(REF TO L191 FOR UL RATING)								
24659-33	2TL1-31	E,F,K,M	NONE	ON	ON	(REF TO L191 FOR UL RATING)								
24659-29	2TL1-4	F	MOM OFF	NONE	ON	(REF TO L192 FOR UL RATING)								
24659-31	2TL1-5	E,F,K,L,M,N	MOM ON	OFF	ON	(REF TO L192 FOR UL RATING)								
24659-30	2TL1-6	F	MOM ON	NONE	OFF	(REF TO L192 FOR UL RATING)								
24659-27	2TL1-7	E,L,N	MOM ON	OFF	MOM ON	(REF TO L192 FOR UL RATING)								
24659-26	2TL1-8	F	MOM ON	NONE	ON	(REF TO L192 FOR UL RATING)								
24659-32	2TL1-51	E	NONE	ON	MOM ON	(REF TO L192 FOR UL RATING)								
24659-28	2TL1-61	E	MOM ON	OFF	NONE	(REF TO L192 FOR UL RATING)								

CATALOG LISTING
2TL1 SERIES CHART 2
ISSUE **32**
DATE OF ISSUE
CHECK (M) (N) (P) (R) (S) (T) (U) (V) (W) (X) (Y) (Z)
US FEED OR RELEASE NO.



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

REVISIONS

A	033042
B	04077
C	04813
D	05086
E	05292
F	056074
G	06047
H	06284
I	06430
J	066011
K	06811
L	07011
M	07211
N	07411
O	07611
P	07811
Q	08011
R	08211
S	08411
T	08611
U	08811
V	09011
W	09211
X	09411
Y	09611
Z	09811

SCALE FULL
DO NOT SCALE PRINT
UNLESS OTHERWISE NOTED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
ONE PLACE (.0)
TWO PLACE (.00)
THREE PLACE (.000)
ANGLES .000
H .008
D .016

15A-125, 250 OR 277 VAC
1/2 HP-125VAC; 1HP-250, 277VAC
5A-125VAC "L" CODE L191

10A-125, 250, 277 VAC
1/4HP-125VAC; 1/2HP-250, 277VAC
3A-125VAC "L" CODE L192

WEIGHT .15 LB APPROX

FORM/TEK
U.S.D. 29 JUN 77
DRAWN GCH
CHECK GCH
DATE 7-1-77