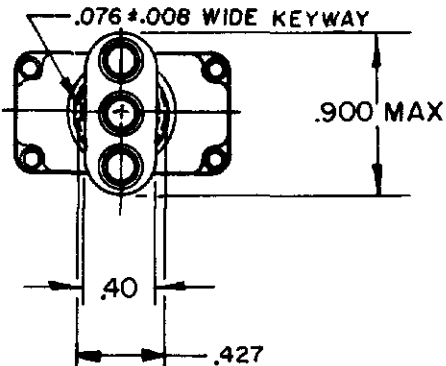


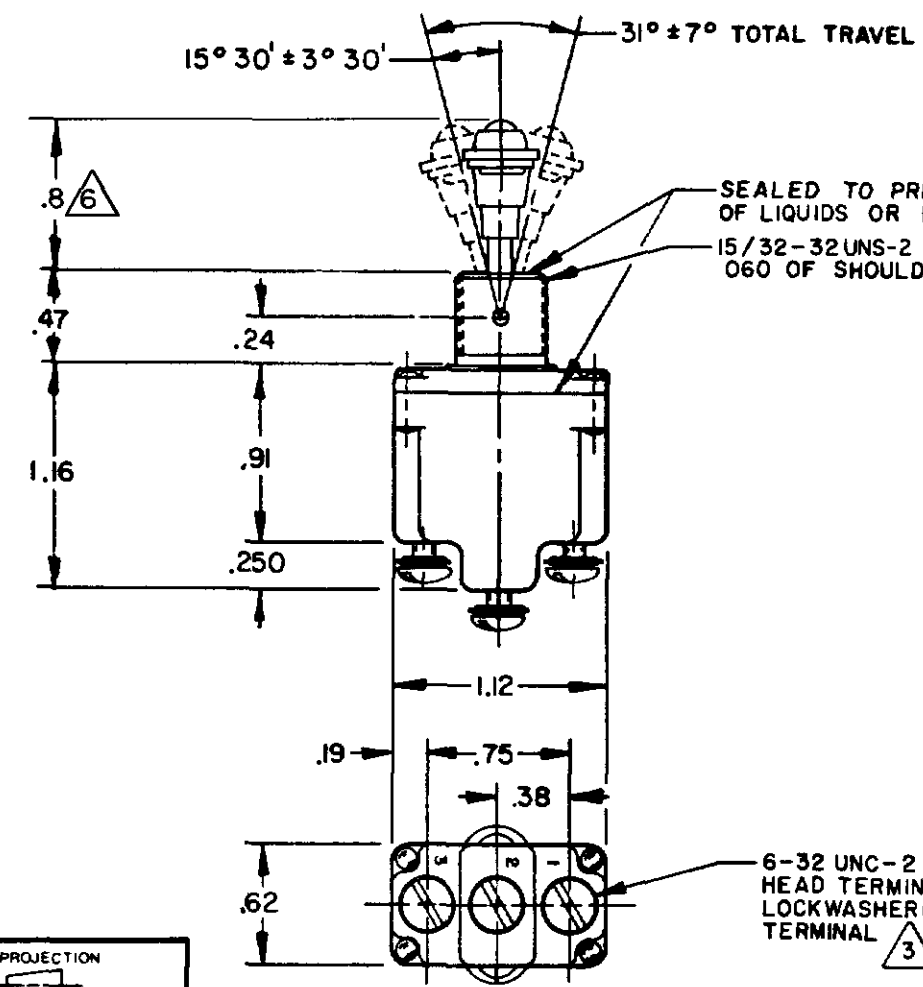
**MICRO SWITCH**  
FREEPORT ILLINOIS U S A  
A DIVISION OF HONEYWELL  
FED. MFG CODE 91929

**SWITCH - TOGGLE**

CATALOG LISTING  
**1TL133 SERIES**  
CHART 1

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.





SEAL TO PREVENT ENTRANCE OF LIQUIDS OR DUST  
15/32-32 UNS-2 THREAD TO WITHIN .060 OF SHOULDER

6-32 UNC-2 X .260 REF BINDING HEAD TERMINAL SCREW AND LOCKWASHER (SEMS) ONE PER TERMINAL

THIRD ANGLE PROJECTION

SCALE FULL

DO NOT SCALE PRINT

TOLERANCES  
APPLY TO DESIGN UNITS CONVERSIONS ARE ONLY FOR REFERENCE UNLESS NOTED TOLERANCES ARE 2

|              | DIM     | TOL    | DIM     | TOL    |
|--------------|---------|--------|---------|--------|
|              | IN      | MM/IN  | IN      | MM/IN  |
| NO PLACES    | X       | 1/64   | X       | 0.075  |
| ONE PLACE    | X X     | 0.0015 | X X     | 0.0015 |
| TWO PLACES   | X X X   | 0.0005 | X X X   | 0.0005 |
| THREE PLACES | X X X X | 0.0002 | X X X X | 0.0002 |

SI METRIC

US CUSTOMARY

DESIGN UNITS

RAW MATERIAL - COMMERCIAL STANDARD  
MICRO SWITCH STANDARDS APPLY  
DIMENSIONS ARE TO BE MET BEFORE  
PROTECTIVE COATINGS ARE APPLIED

WEIGHT .08 LB APPROX

L191 15A 125, 250, 277 VAC  
1/2HP 125 VAC  
1HP 250, 277 VAC  
5A 125 VAC "L"

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

| CATALOG LISTING | CIRCUIT MADE WITH TOGGLE LEVER IN |              |                       | MILITARY RATING (AMPS)        |          |    |    |           |         |                |         |    |
|-----------------|-----------------------------------|--------------|-----------------------|-------------------------------|----------|----|----|-----------|---------|----------------|---------|----|
|                 | KEYWAY SIDE (1-2)                 | CENTER (1-2) | OPPOSITE KEYWAY (2-3) | RESISTIVE LOAD                |          |    |    | LAMP LOAD |         | INDUCTIVE LOAD |         |    |
|                 |                                   |              |                       | DC VOLTS                      | AC VOLTS |    |    | 28 VDC    | 125 VAC | 28 VDC         | 125 VAC |    |
| ITL133 - 1      | ON                                | OFF          | ON                    | 20                            | .75      | .5 | 15 | 6         | 5       | 3              | 15      | 10 |
| ITL133 - 2      | OFF                               | NONE         | ON                    |                               |          |    |    |           |         |                |         |    |
| ITL133 - 3      | ON                                | NONE         | ON                    |                               |          |    |    |           |         |                |         |    |
| ITL133 - 2I     | NONE                              | OFF          | ON                    |                               |          |    |    |           |         |                |         |    |
| ITL133 - 3I     | NONE                              | ON           | ON                    | (REFER TO L191 FOR UL RATING) |          |    |    |           |         |                |         |    |
| ITL133 - 4      | MOM OFF                           | NONE         | ON                    | 15                            | .75      | .5 | 15 | 6         | 4       | 2              | 10      | 7  |
| ITL133 - 5      | MOM ON                            | OFF          | ON                    |                               |          |    |    |           |         |                |         |    |
| ITL133 - 6      | MOM ON                            | NONE         | OFF                   |                               |          |    |    |           |         |                |         |    |
| ITL133 - 7      | MOM ON                            | OFF          | MOM ON                |                               |          |    |    |           |         |                |         |    |
| ITL133 - 8      | MOM ON                            | NONE         | ON                    |                               |          |    |    |           |         |                |         |    |
|                 |                                   |              |                       | (REFER TO L192 FOR UL RATING) |          |    |    |           |         |                |         |    |
| ITL133 - 5I     | NONE                              | ON           | MOM ON                |                               |          |    |    |           |         |                |         |    |
| ITL133 - 6I     | MOM ON                            | OFF          | NONE                  |                               |          |    |    |           |         |                |         |    |

.018 REF  
.60 DIA  
LOCKWASHER

.05  
.040  
.110  
.72 DIA  
.392  
LOCKING RING

.078  
.56  
HEX NUT (2)

**NOTES**

1 - SWITCHES ARE CAPABLE OF WITHSTANDING A TEMPERATURE OF 160°F CONTINUOUSLY AT FULL RATED LOAD

2 - CIRCUIT DESIGNATION AND MICRO SWITCH CATALOG LISTING 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 - ULTRAVIOLET LIGHT SENSITIVE BLUE/GREEN FLUORESCENT CAP IS ATTACHED TO LEVER BY A LOCKING TYPE INTERNAL THREAD. FURNISHED UNASSEMBLED